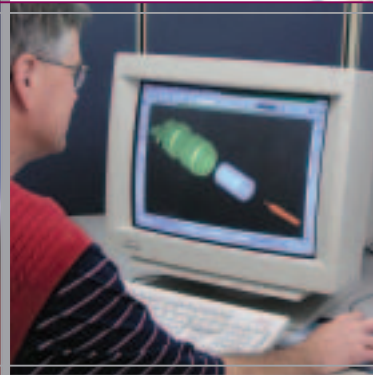
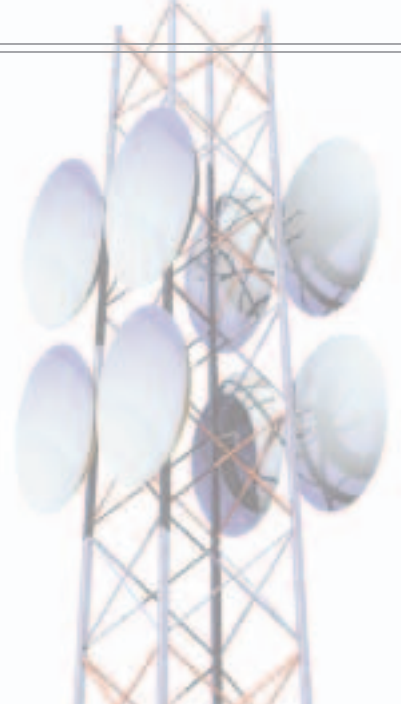


JOHNSON®

***RF/Microwave Connectors
& Cable Assemblies***



***Emerson Network Power
Connectivity Solutions***




EMERSON™
Network Power



Connectivity Solutions

To our valued customers:

For over 80 years, Johnson Components and Cambridge Products have been providing our electronics distributor and OEM customers with cost-effective, high-quality solutions for connectivity. This catalog combines the product lines of Johnson Components and Cambridge Products under the Johnson product line of *Emerson Network Power Connectivity Solutions*. In addition to combining these product lines, we have also combined several of our interconnect businesses under the name *Emerson Network Power Connectivity Solutions*. We believe this name not only reflects our traditional industry focus, but also better communicates the additional resources that we can supply as part of Emerson Network Power.

Although our name is changing, our commitment to product quality and to excellent service to our customers will not. Our combined connectivity product line will continue to focus on the wireless, test/measurement, instrumentation, OEM and installer markets for data networks, telecommunications, satellite, security, telemetry and CATV.

This catalog offers our customers new products such as the SMK (2.92mm) range of 40 GHz connectors and non-magnetic connectors for the medical industry as well as extensive enhancements to our existing product portfolio. It continues to provide comprehensive data on our range of coaxial connectors, cable assemblies, hardware, tools and test products to support your design and application needs and those of your customers.

Emerson Network Power Connectivity Solutions is a global player with manufacturing, sales and engineering presence in China, the United Kingdom and the United States to meet our customers' requirements around the world. Our goal is to continue to expand our product offerings and capabilities to continue meeting your changing needs.

Thank you for allowing us the opportunity to serve you.

Best Regards,

A handwritten signature in black ink, appearing to read "Brian G. Mason".

Brian G. Mason
President
Emerson Network Power
Connectivity Solutions

MMCX Connectors - 50 Ohm

PC Mount	7
Specifications	4
Semi-Rigid and Flexible Cable	5
Termination	8

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

MMCX - 50 Ohm Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

EMERSON
Network Power

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range: Connectors 0-6 GHz
Dummy loads 0-1 GHz

VSWR: (f = GHz)	Straight		Right Angle	
	Cabled Connectors		Cabled Connectors	
.047 dia flexible	1.20		1.14 + .07f	
RG-178, RG-316, RG-316 DS	1.20		1.25	
.086 Semi-Rigid	1.15		1.15	
Uncabled receptacles, dummy loads			N/A	

Working Voltage:

Connectors 170 VRMS at sea level†
Dummy loads N/A

Dielectric Withstanding Voltage:

Connectors 500 VRMS at sea level†
Dummy loads N/A

Insulation Resistance: 1000 megohms min

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
--	---------	---------------------

Center contact (straight cabled connectors and uncabled receptacles)	5.0	8.0
--	-----	-----

Center contact (right angle cabled connectors)	5.0	15.0
--	-----	------

Outer contact (all connectors)	1.0	1.5
--------------------------------------	-----	-----

Braid to body	1.5	N/A
---------------------	-----	-----

Corona Level: Connectors 190 volts min at 70,000 feet†
Dummy loads N/A

Insertion Loss: (dB max tested at 1 GHz)

Straight cabled connectors	0.1
Right angle cabled connectors	0.2
Uncabled receptacles, dummy loads	N/A

RF Leakage: (dB minimum, tested at 2.5 GHz)

Flexible cable connectors	-60 dB
.086 Semi-Rigid	-70 dB
Dummy loads	N/A

RF High Potential Withstanding Voltage:

(400 VRMS at 4 and 7 MHz)†

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

†Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

MECHANICAL RATINGS

Engagement Design: Series MMCX

Engagement/Disengagement Force:

8 lbs. max axial engagement
1.4 lbs. min axial disengagement

Contact Retention: 2.0 lbs. minimum axial force

Cable Retention:	Axial Force* (lbs.)	Torque (in-oz)
Connectors for .047 flexible	3.5	N/A
Connectors for RG-178	7.0	N/A
Connectors for RG-316	20.0	N/A
Connectors for RG-316 DS	25.0	N/A
Connectors for .086 Semi-Rigid	30.0	16

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Operating Temperature: Connectors -65°C to +165°C
Dummy loads -65°C to +125°C

Thermal Shock: Connectors: MIL-STD-202, Method 107, Condition C, except -55°C to +155°C (N/A dummy loads)

Corrosion: MIL-STD-202, Method 101, Condition B (N/A dummy loads)

Shock: MIL-STD-202, Method 213, Condition B (N/A dummy loads)

Vibration: MIL-STD-202, Method 204, Condition D (N/A dummy loads)

Moisture Resistance: MIL-STD-202, Method 106 (N/A dummy loads)

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min.

Contacts: Beryllium copper per QQ-C-530, gold plated* per MIL-G-45204 .00003" min.

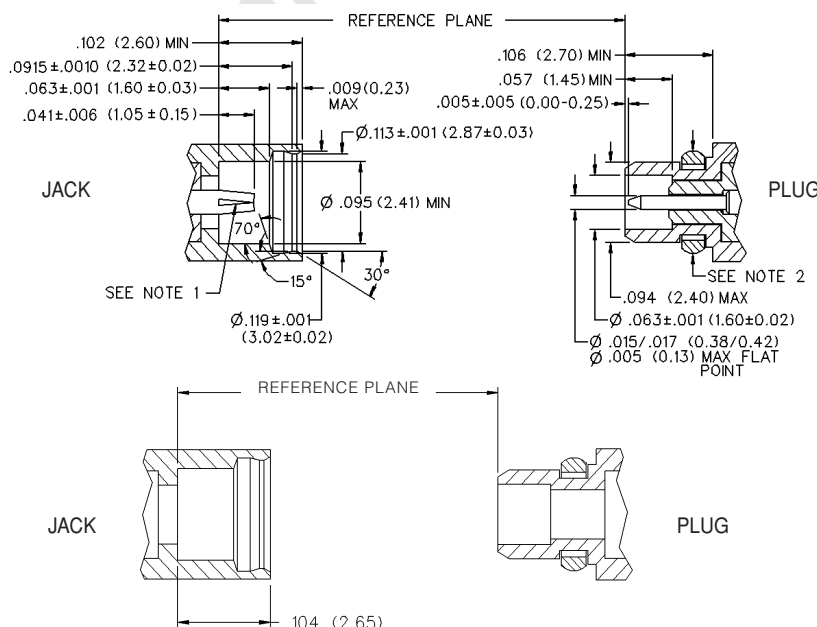
Interface Spring: Beryllium copper per QQ-C-530, gold plated* per MIL-G-45204 .00003" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-626, gold plated per MIL-G-45204 .00001" min.

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min.

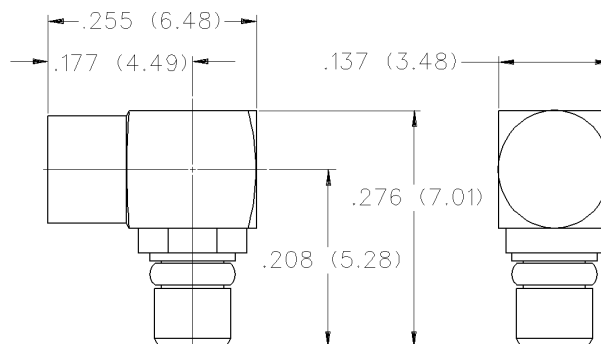
*All gold plated parts include a .00005" min nickel barrier layer.



Mating Engagement for MMCX Series

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia .016 +/- .001 male contact.
2. Must meet the force to engage and disengage when mated with mating part.

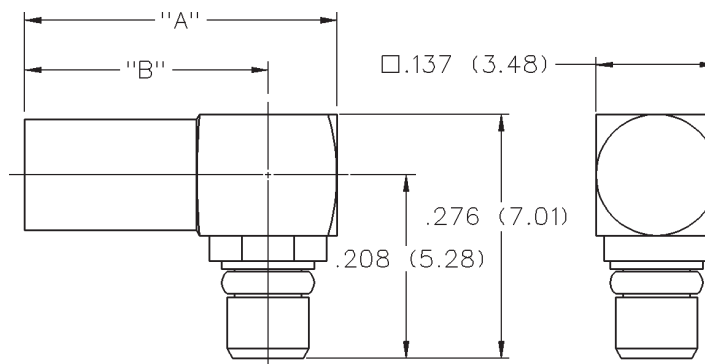
Right Angle Solder Type Plug - Captivated Contact



CABLE TYPE	PART NO.
.086 Semi-Rigid	135-3693-101

Assembly instructions page 207.

Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	PART NO.	"A"	"B"	TERMINATION
.047" Diameter Flexible Huber K01152-07 Axon P512479A Astrolab 32018 DS	135-3436-101	.354 (8.99)	.276 (6.98)	Crimp Insert
RG-178/U, 196	135-3402-101	.354 (8.99)	.276 (6.98)	Crimp Insert
RG-178/U, 196	135-3402-111	.412 (10.46)	.334 (8.48)	Crimp Sleeve
RG-316/U, 188, 187 179, 161, 174	135-3403-101	.412 (10.46)	.334 (8.48)	Crimp Sleeve
RG-316 DS, RG-188 DS	135-3404-101	.412 (10.46)	.334 (8.48)	Crimp Sleeve

Assembly instructions pages 208 and 209.

MMCX - 50 Ohm Connectors

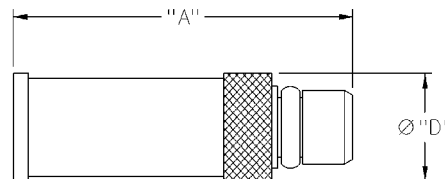
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

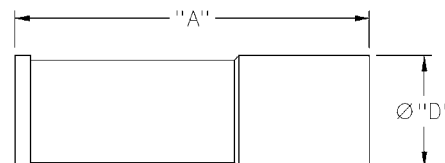
Straight Crimp Type Plug - Solder or Crimp Captivated Contact



Assembly instructions pages 210 and 211.

CABLE TYPE	PART NO.	"A"	"D"	TERMINATION
.047" Diameter Flexible Huber K01152-07 Axon P512479A Astrolab 32018 DS	135-3436-001	.462 (11.73)	.137 (3.48)	Crimp Insert
RG-178/U, 196	135-3402-001	.462 (11.73)	.137 (3.48)	Crimp Insert
RG-316/U, 188, 161, 174	135-3403-001	.509 (12.93)	.173 (4.39)	Crimp Sleeve
RG-316 DS, 188 DS, 187 DS	135-3404-001	.509 (12.93)	.173 (4.39)	Crimp Sleeve
RG-179/U, 187	135-3433-001	.509 (12.93)	.173 (4.39)	Crimp Sleeve

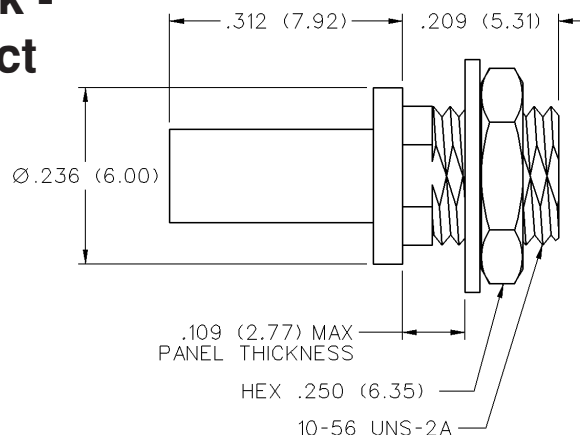
Straight Crimp Type Jack - Solder or Crimp Captivated Contact



Assembly instructions pages 212 and 213.

CABLE TYPE	PART NO.	"A"	"D"	TERMINATION
.047" Diameter Flexible Huber K01152-07 Axon P512479A Astrolab 32018 DS	135-3336-001	.462 (11.73)	.137 (3.48)	Crimp Insert
RG-178/U, 196	135-3302-001	.462 (11.73)	.137 (3.48)	Crimp Insert
RG-316/U, 188, 161, 174	135-3303-001	.545 (13.84)	.173 (4.39)	Crimp Sleeve
RG-316 DS, 188 DS, 187 DS	135-3304-001	.545 (13.84)	.173 (4.39)	Crimp Sleeve
RG-179/U, 187	135-3333-001	.545 (13.84)	.173 (4.39)	Crimp Sleeve

Straight Crimp Type Bulkhead Jack - Solder or Crimp Captivated Contact



CABLE TYPE	PART NO.	TERMINATION
.047" Diameter Flexible Huber K01152-07 Axon P512479A Astrolab 32018 DS	135-3336-401	Crimp Insert
RG-178/U, 196	135-3302-401	Crimp Insert

Assembly instructions page 213.

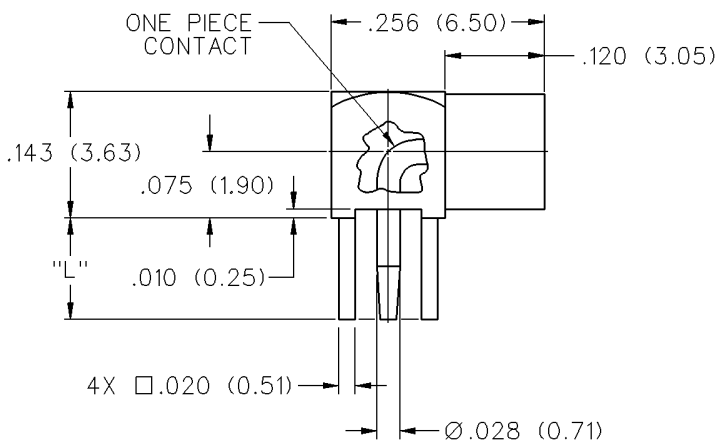
Mounting Hole layout fig. 5 page 201.

Right Angle Jack Receptacle



"L"	PART NO.
.115 (2.92)	135-3701-301
.068 (1.73)	135-3701-311

Mounting Hole layout figure 14 page 202.

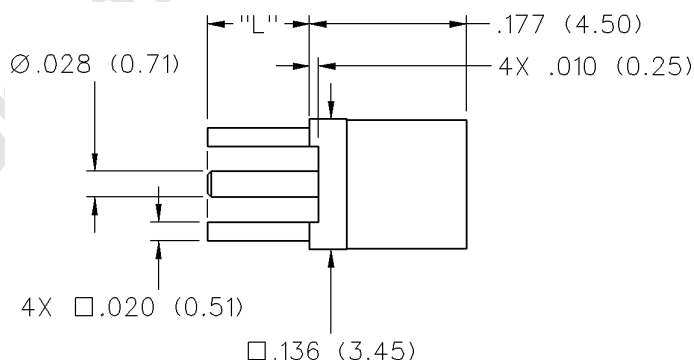


Straight Mount Jack Receptacle



"L"	PART NO.
.115 (2.92)	135-3701-201
.068 (1.73)	135-3701-211

Mounting Hole layout figure 14 page 202.

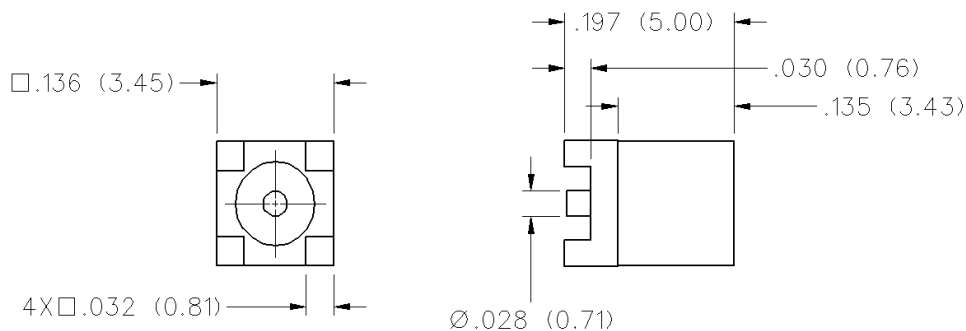


Straight Jack Receptacle - Surface Mount



PART NO.	PACKAGING
135-3711-201	Stock
135-3711-202	Tape and Reel 1500 pcs/reel

Recommended Land Pattern figure 17 page 202.



MMCX - 50 Ohm Connectors

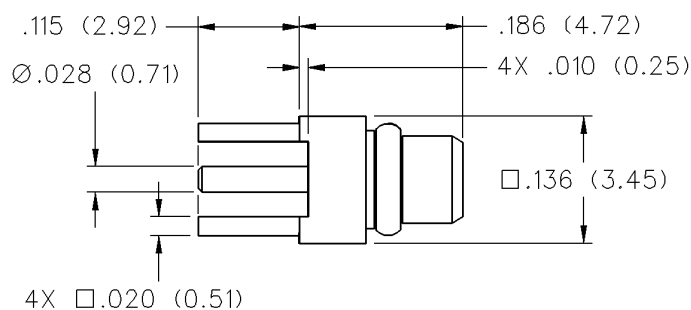
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

PC Mount and Termination

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST



Straight Plug Receptacle

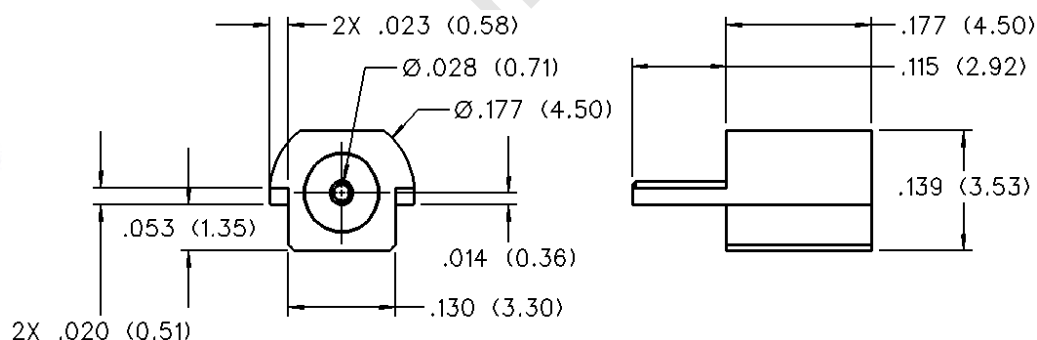


PART NO.

135-3801-201

Mounting Hole layout figure 14 page 202.

End Launch Jack Receptacle - Surface Mount



PART NO.

135-3711-801

PACKAGING

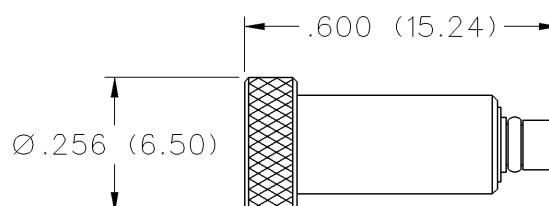
Stock

135-3711-802

Tape and Reel
1000pcs/reel

Recommended Land Pattern and Board Notch figure 16 page 202.

Plug Dummy Load



FREQ. RANGE

0-1 GHZ

PART NO.

135-3801-811

PLATING

Gold

RESISTANCE

50 Ohms

MCX Connectors - 50 Ohm

Bulkhead and Panel Mount	18
Flexible Cable	12
In-Series Adapters and Terminations	19
PC Mount	14
Semi-Rigid Cable	11
Specifications	10

MCX Non-Magnetic Connectors - 50 Ohm

PC Mount	31
Specifications	30

MCX Reverse Polarity - 50 Ohm

Flexible Cable	21
PC Mount	22
Specifications	20

MCX Connectors - 75 Ohm

Between-Series Adapters	28
Flexible Cable	24
In-Series Matched Adapters and Terminations	27
PC Mount	25
Specifications	23

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

MCX - 50 Ohm Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

EMERSON
Network Power

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: Connectors 0-6 GHz
Dummy loads 0-1 GHz

VSWR: (f = GHz) Straight Cabled Right Angle
 Connectors Cabled Connectors

RG-178 cable 1.17 + .04f 1.07 + .06f

RG-316 and .086 Semi-Rigid cable . 1.13 + .04f 1.07 + .04f

Adapters 1.13 + .04f

Uncabled receptacles, Dummy loads N/A

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type Sea Level 70K Feet

RG-178 250 65

RG-316, .086 Semi-Rigid uncabled

uncabled receptacles, adapters 335 85

Dummy loads N/A

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-178 750

Connectors for RG-316, .086 Semi-Rigid,

uncabled receptacles, adapters 1000

Dummy loads N/A

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-178 190

Connectors for RG-316, .086 Semi-Rigid

uncabled receptacles, adapters 250

Dummy loads N/A

Insertion Loss: (dB maximum, tested at 1 GHz)

Straight cable connectors and adapters 0.1 dB

Right angle cable connectors 0.2 dB

Uncabled receptacles, dummy loads N/A

Insulation Resistance: 10,000 megohms minimum

Contact Resistance: (milliohms maximum) After
 Initial Environmental

Center contact (straight cabled connectors,
uncabled receptacles and adapters) 5.0 8.0

Center contact (right angle cabled connectors) 5.0 15.0

Outer contact 1.0 1.5

Braid to body (gold plated connectors) 1.0 N/A

Braid to body (nickel plated connectors) 2.5 N/A

RF Leakage: (dB typical tested at 2.5 GHz)

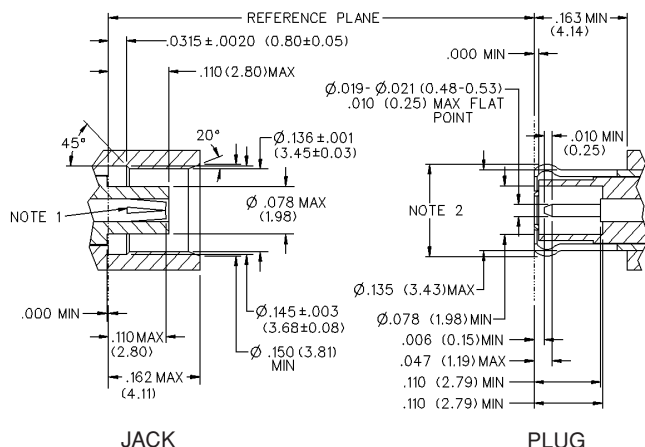
Cable connectors -55 dB

Uncabled receptacles and adapters, dummy loads N/A

[†]Avoid user injury due to misapplication. See safety advisory definitions on page 2.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

Mating Engagement for MCX Series Compatible with CECC 22220



RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG178 500

Connectors for RG316 and adapters 700

.086 Semi-Rigid 670

Uncabled receptacles 600

Dummy loads N/A

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

MECHANICAL RATINGS

Engagement Design: Compatible with CECC 22220, Series MCX

Engagement Force: 5.6 pounds maximum axial force

Disengagement Force: 8 pounds maximum axial force, 1 pound min.

Contact Retention: 2.3 pounds min. axial force (captivated contacts)

1 inch-ounce min. torque (uncabled receptacles)

Cable Retention: Axial Force* (lbs) Torque (in-oz)

Connectors for RG178 10 N/A

Connectors for RG316 20 N/A

Connectors for RG316DS 25 N/A

Connectors for .086 Semi-Rigid 30 16

* or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Operating Temperature: Connectors - 65°C to + 165°C

Dummy loads - 65°C to + 125°C

Thermal Shock: MIL-STD-202, Method 107, Condition F

(N/A dummy loads)

Corrosion: MIL-STD-202, Method 101, Condition B (N/A dummy loads)

Shock: MIL-STD-202, Method 213, Condition B (N/A dummy loads)

Vibration: MIL-STD-202, Method 204, Condition B (N/A dummy loads)

Moisture Resistance: MIL-STD-202, Method 106 (N/A dummy loads)

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626 or zinc per ASTM B86-71, gold plated**

per MIL-G-45204 .00001" min or nickel plated per QQ-N-290 or

bright tin plated

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204

.00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-

45204 .00003" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204

.00001" min. or nickel plated per QQ-N-290

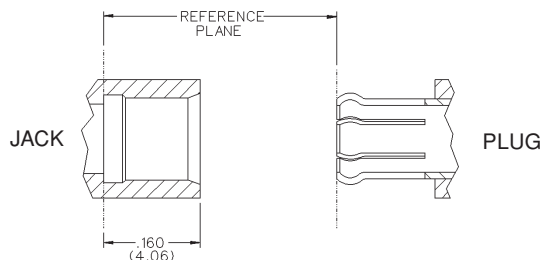
Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204

.00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze

(lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min.

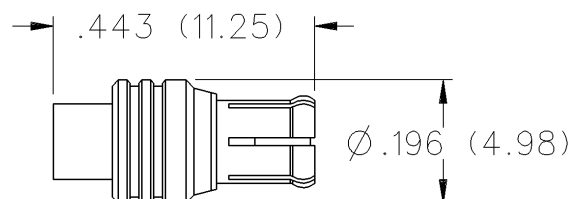
or nickel plated per QQ-N-290



NOTES

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.53) male contact.
2. Must meet the force to engage and disengage when mated with mating part.

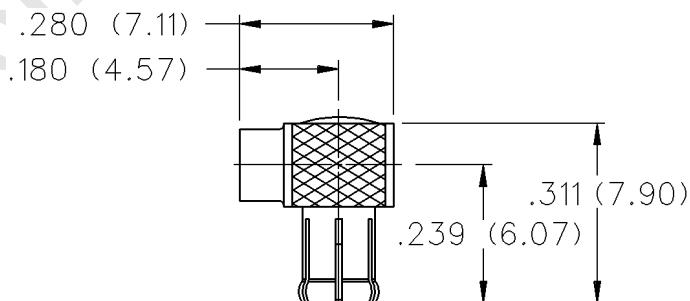
Straight Solder Type Plug



CABLE TYPE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	133-3693-001	133-3693-006

Assembly instructions page 214.

Right Angle Solder Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	133-3693-101	133-3693-106

Assembly instructions page 215.

MCX - 50 Ohm Connectors

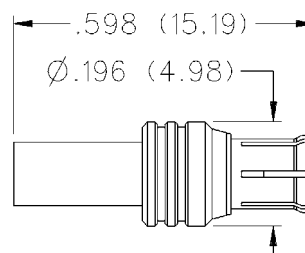
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Straight Crimp Type Plug - Solder or Crimp Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CAPTIVATED CONTACT
RG-178/U, 196	133-3402-001	133-3402-006	NO
RG-188/U, 316, 161, 174	133-3403-001	133-3403-006	YES
RG-188 DS, RG-316 DS	133-3404-001	133-3404-006	YES
RG-179/U, 187	133-3433-001	133-3433-006	YES

Assembly instructions page 216.
See page 190 for Cable Assembly tools.
Four and six connector ganged plugs
available, see page 198.

Right Angle Crimp Type Plug - Captivated Contact

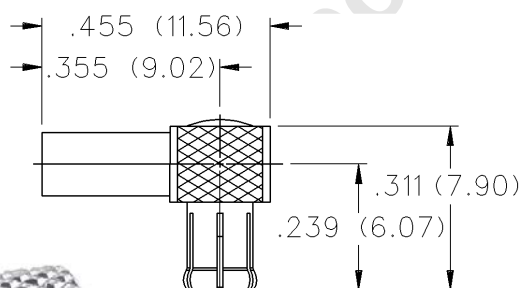


FIG. 1

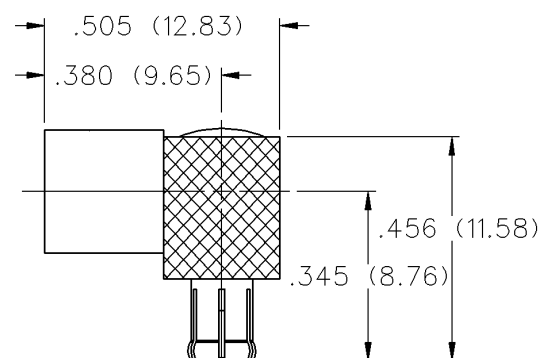
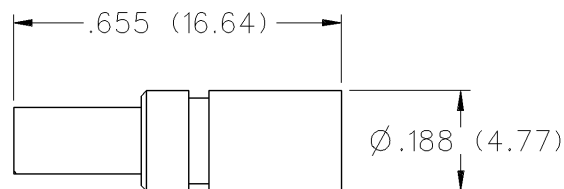


FIG. 2

CABLE TYPE	GOLD PLATED	NICKEL PLATED	FIG.
RG-178/U, 196	133-3402-101	133-3402-106	1
RG-188/U, 316, 161, 174	133-3403-101	133-3403-106	1
RG-188 DS, RG-316 DS	133-3404-101	133-3404-106	1
RG-58/U, 303, 141	133-3407-101	133-3407-106	2
RG-179/U, 187	133-3433-101	133-3433-106	1

Assembly instructions page 218.
See page 190 for Cable Assembly tools.

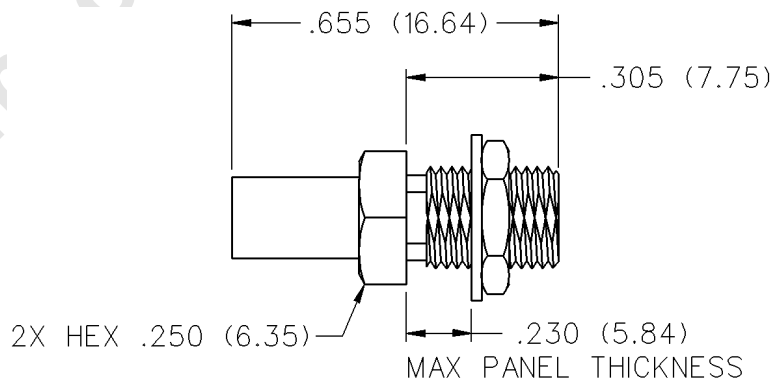
Straight Crimp Type Jack - Solder or Crimp Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CAPTIVATED CONTACT
RG-178/U, 196	133-3302-001	133-3302-006	NO
RG-188/U, 316, 161, 174, 179, 187	133-3303-001	133-3303-006	YES
RG-188 DS, RG-316 DS	133-3304-001	133-3304-006	YES

Assembly instructions page 216.
See page 190 for Cable Assembly tools.

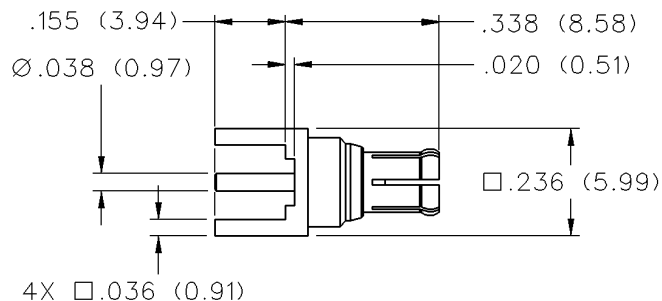
Straight Crimp Type Bulkhead Jack - Solder or Crimp Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CAPTIVATED CONTACT
RG-178/U, 196	133-3302-401	133-3302-406	NO
RG-188/U, 316, 161, 174, 179, 187	133-3303-401	133-3303-406	YES
RG-188 DS, RG-316 DS	133-3304-401	133-3304-406	YES

Assembly instructions page 216.
Mounting hole layout figure 5 page 201
See page 190 for Cable Assembly tools.

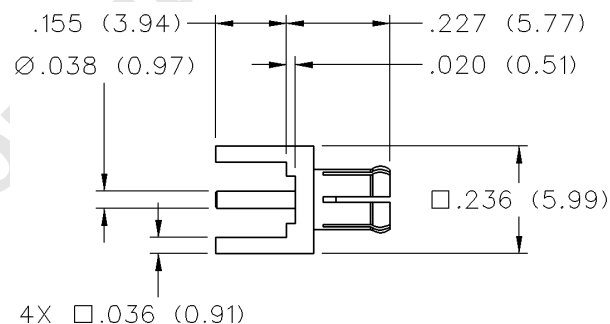
Straight Plug Receptacle



GOLD PLATED	NICKEL PLATED
133-3801-201	133-3801-206

Mounting hole layout figure 4 page 201.

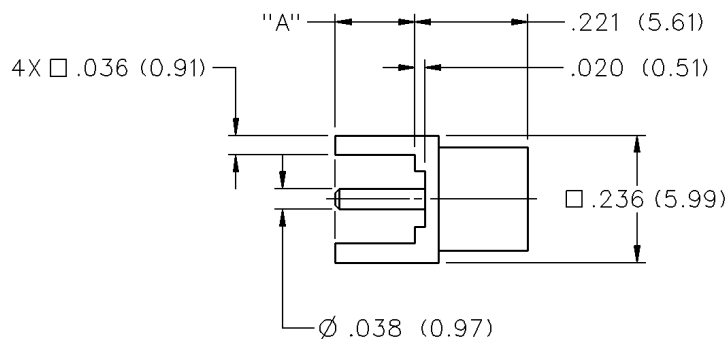
Straight Plug Receptacle - Low Profile



GOLD PLATED	NICKEL PLATED
133-3801-211	133-3801-216

Mounting hole layout figure 4 page 201.

Straight Jack Receptacle

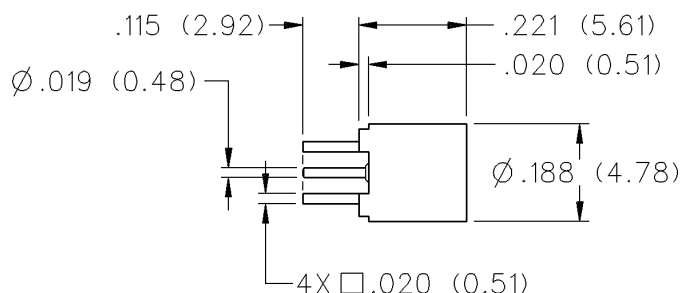


GOLD PLATED	NICKEL PLATED	DIMENSION "A"
133-3701-201	133-3701-206	.155 (3.94)
133-3701-211	133-3701-216	.110 (2.79)
133-3701-221	133-3701-226	.068 (1.73)

Mounting hole layout figure 4 page 201.

Four and six connector ganged receptacles available. See page 198.

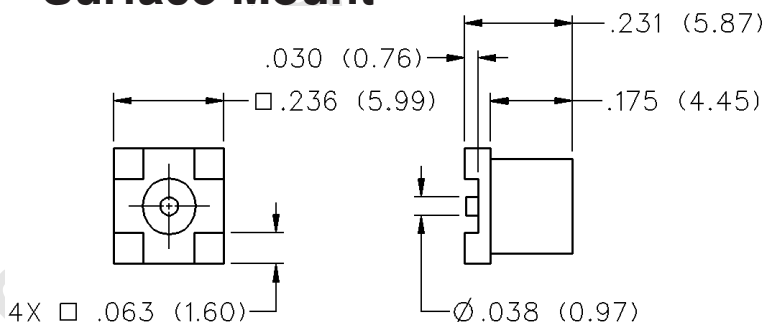
Straight Jack Receptacle - .100" Layout



GOLD PLATED	NICKEL PLATED
133-3701-231	133-3701-236

Mounting hole layout figure 14 page 202.

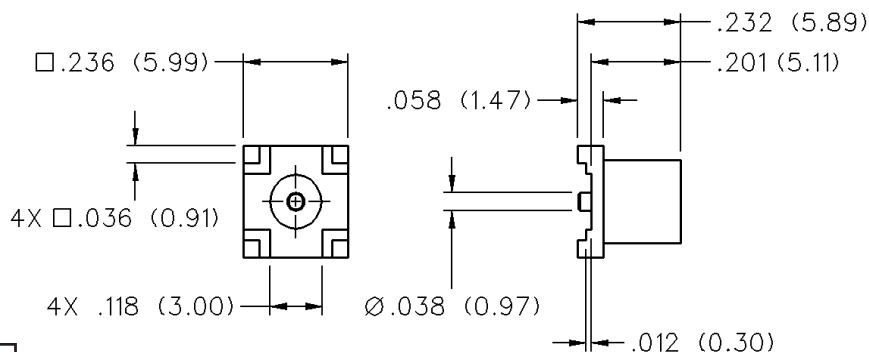
Straight Jack Receptacle - Surface Mount



GOLD PLATED	PACKAGING
133-3711-201	Stock
133-3711-202	Tape and Reel 750 pcs/reel

Recommended Land Pattern figure 15 page 202.
Tape and Reel .472 (12.0) component pitch X .630 (16.0) wide.

Straight Jack Receptacle - Surface Mount



GOLD PLATED	PACKAGING
133-3711-211	Stock
133-3711-212	Tape and Reel 750 pcs/reel

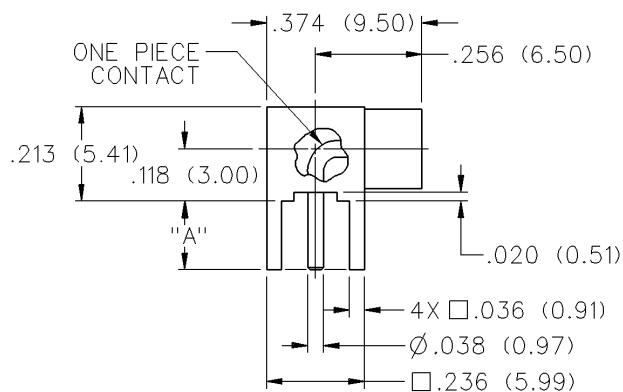
Recommended Land Pattern figure 15 page 202.
Tape and Reel .472 (12.0) component pitch X .630 (16.0) wide.

Right Angle Jack Receptacle



GOLD PLATED	NICKEL PLATED	"A"
133-3701-301	133-3701-306	.155 (3.94)
133-3701-311	133-3701-316	.110 (2.79)
133-3701-321	133-3701-326	.068 (1.73)

Mounting hole layout figure 4 page 201.



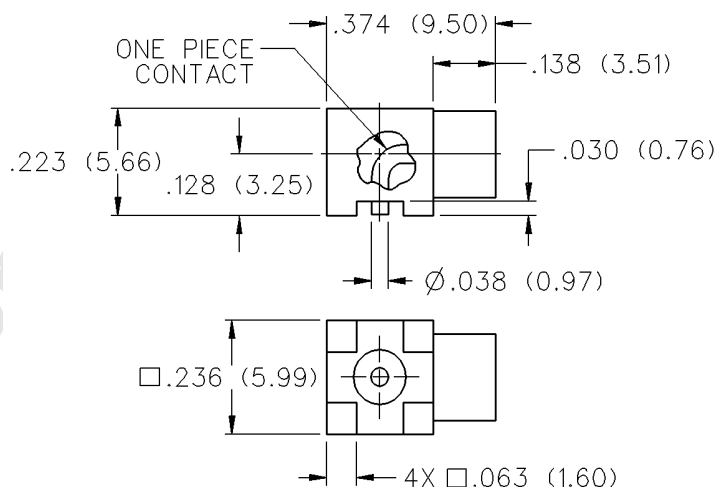
Right Angle Jack Receptacle - Surface Mount



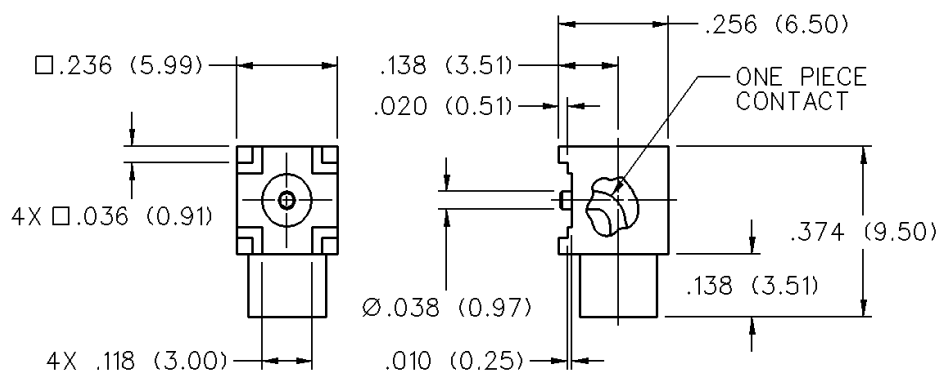
GOLD PLATED	PACKAGING
133-3711-301	Stock
133-3711-302	Tape and Reel 750 pcs/reel

Recommended Land Pattern figure 15 page 202.

Tape and Reel .472 (12.0) component pitch X .945 (24.0) wide.



Right Angle Jack Receptacle - Surface Mount

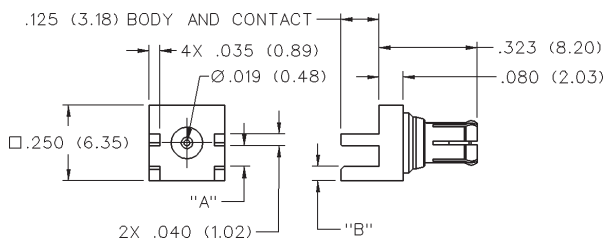
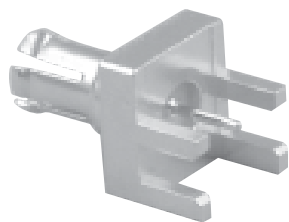


GOLD PLATED	PACKAGING
133-3711-311	Stock
133-3711-312	Tape and Reel 750 pcs/reel

Recommended Land Pattern figure 15 page 202.

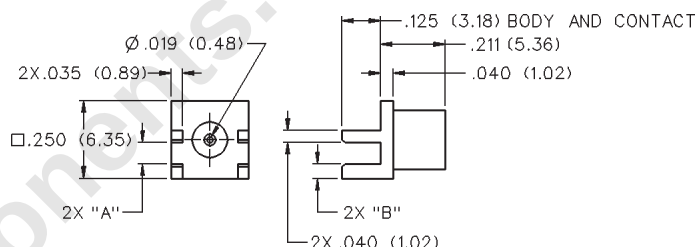
Tape and Reel .472 (12.0) component pitch X .945 (24.0) wide.

End Launch Plug Receptacle



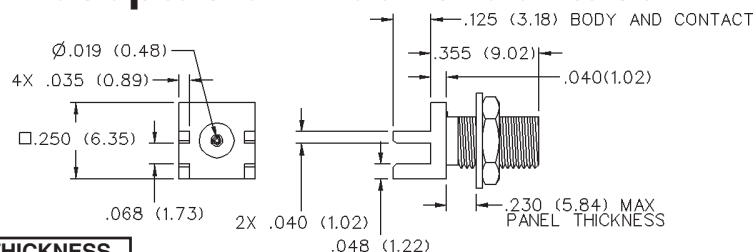
GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
133-3801-841	133-3801-846	.062 (1.57)	.068 (1.73)	.048 (1.22)
133-3801-851	133-3801-856	.042 (1.07)	.048 (1.22)	.068 (1.73)

End Launch Jack Receptacle - Round Contact



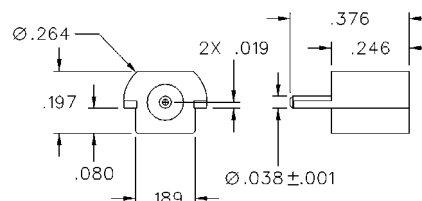
GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
133-3701-801	133-3701-806	.062 (1.57)	.068 (1.73)	.048 (1.22)
133-3701-811	133-3701-816	.042 (1.07)	.048 (1.22)	.068 (1.73)

End Launch Bulkhead Jack Receptacle - Round Contact



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
133-3701-821	133-3701-826	.062 (1.57)

Surface Mount End Launch Jack Receptacle



GOLD PLATED	PACKAGING OPTIONS
133-3711-801	Stock
133-3711-802	Tape and Reel 1000 pcs/reel

Recommended Land Pattern figure 23 page 203.

MCX - 50 Ohm Connectors

Bulkhead and Panel Mount

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Front Mount Bulkhead Jack Receptacle

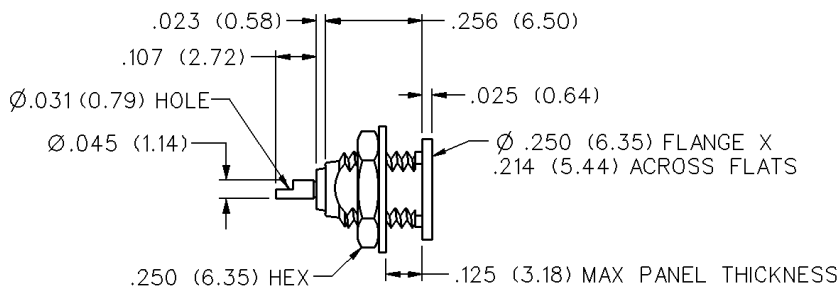


FIG. 1

GOLD PLATED	NICKEL PLATED	MOUNTING STYLE	FIG.
133-3701-401	133-3701-406	D Flat Threaded	1
133-3701-411	133-3701-416	Press Fit Knurl	2

D Flat Threaded mounting hole layout figure 5 page 201.
Press Fit Knurl mounting hole layout figure 12 page 201.

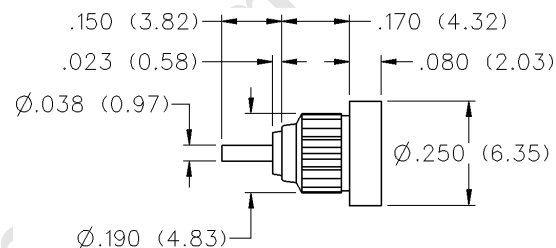
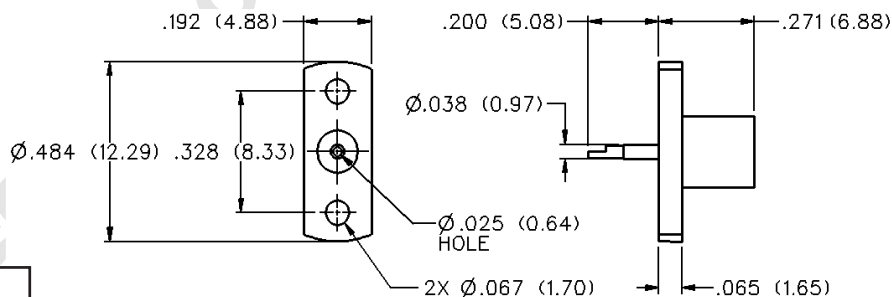


FIG. 2

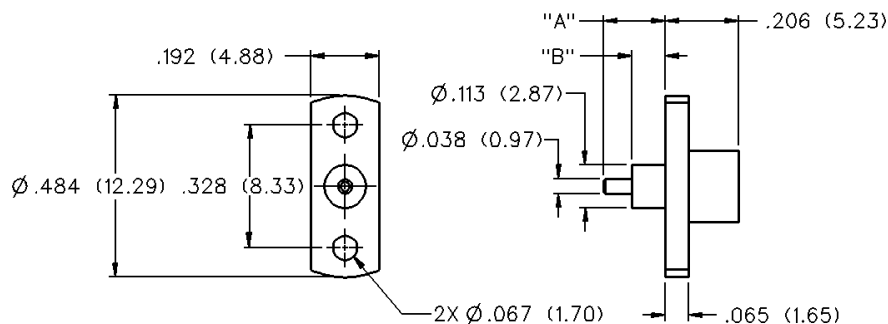
2-Hole Flange Mount Jack Receptacle - Flush Dielectric



GOLD PLATED	NICKEL PLATED
133-3701-601	133-3701-606

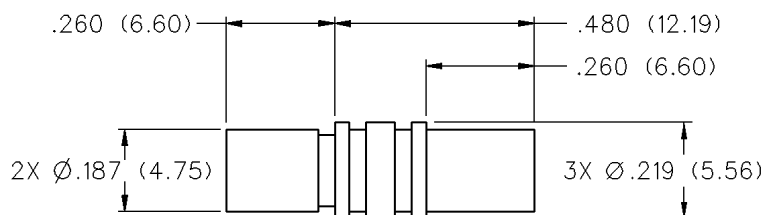


2-Hole Flange Mount Jack Receptacle - Extended Dielectric



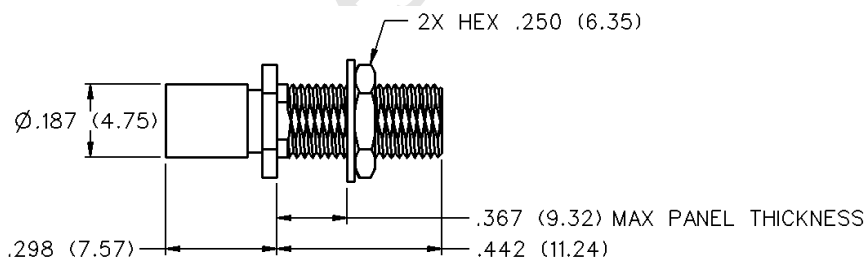
GOLD PLATED	NICKEL PLATED	"A"	"B"
133-3701-611	133-3701-616	.170 (4.32)	.092 (2.34)
133-3701-621	133-3701-626	.300 (7.62)	.200 (5.08)

Jack to Jack Adapter



GOLD PLATED	NICKEL PLATED
133-3901-801	133-3901-806

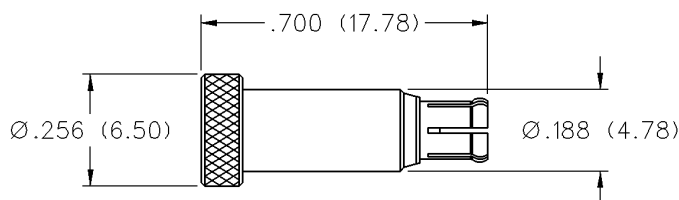
Jack to Bulkhead Jack Adapter



GOLD PLATED	NICKEL PLATED
133-3901-401	133-3901-406

Mounting hole layout figure 5 page 201.

Plug Dummy Load



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	RESISTANCE
0-1 GHz	133-3801-801	133-3801-806	50 Ohm
0-1 GHz	133-3801-821	133-3801-826	75 Ohm

MCX Reverse Polarity - 50 Ohm

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-6 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-178 cable	1.17 + .04f	1.07 + .06f
RG-316 cable	1.13 + .04f	1.07 + .04f
Uncabled receptacles	N/A	

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-178	250	65
RG-316 uncabled receptacles	335	85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-178	750
Connectors for RG-316 uncabled receptacles	1000

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-178	190
Connectors for RG-316 uncabled receptacles	250

Insertion Loss: (dB maximum, tested at 1 GHz)

Straight cable connectors	0.1 dB
Right angle cable connectors	0.2 dB
Uncabled receptacles	N/A

Insulation Resistance: 10000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles)	5.0	8.0
Center contact (right angle cabled connectors)	5.0	15.0
Outer contact	1.0	1.5
Braid to body (gold plated connectors)	1.0	N/A
Braid to body (nickel plated connectors)	2.5	N/A

RF Leakage: (dB typical tested at 2.5 GHz)

Cable connectors	-55 dB
Uncabled receptacles	N/A

RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-178	500
Connectors for RG-316	700
Uncabled receptacles	600

MECHANICAL RATINGS

Engagement Force: 5.6 pounds maximum axial force

Disengagement Force: 8 pounds maximum axial force, 1.0 pound min.

Contact Retention: 2.3 lbs. min. axial force (captivated contacts)
1 inch-ounce min. torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-178	10	N/A
Connectors for RG-316	20	N/A
Connectors for RG-316DS	25	N/A

* or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition F

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition B

Vibration: MIL-STD-202, Method 204, Condition B

Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626 or zinc per ASTM B86-71, gold plated** per MIL-G-45204 .00001" min or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

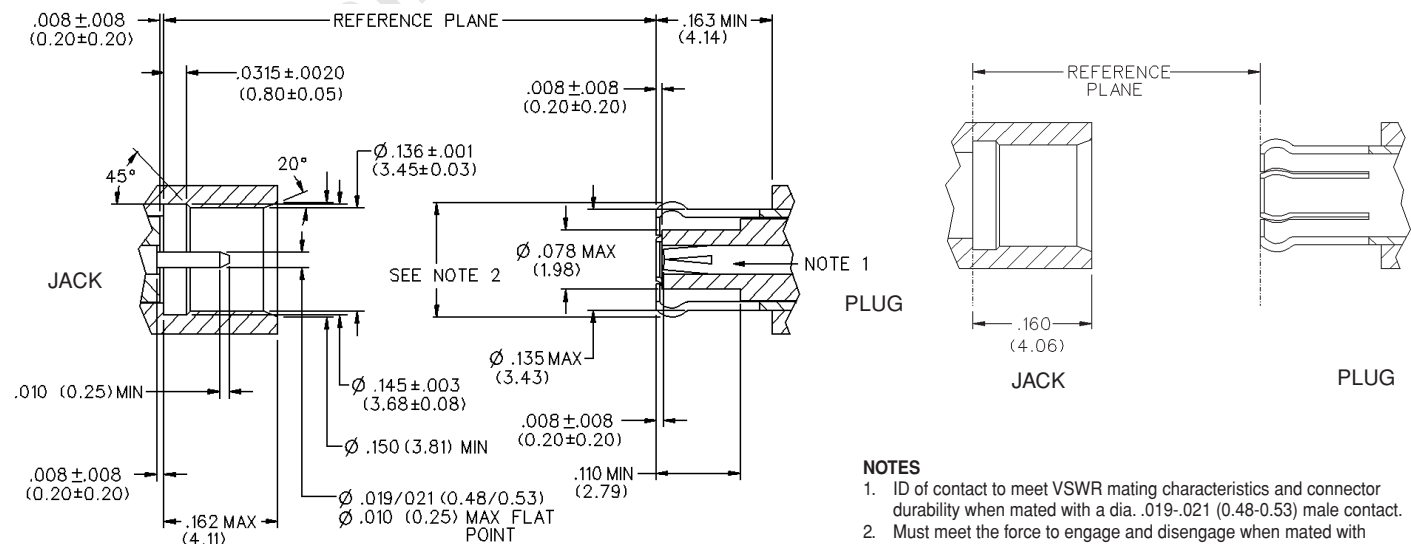
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mating Engagement for MCX Reverse Polarity Series

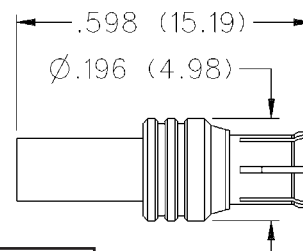


[†]Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

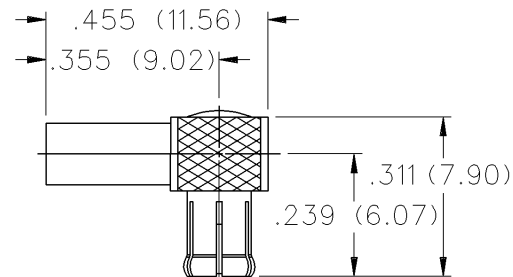
Straight Crimp Type Plug - Solder or Crimp Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CAPTIVATED CONTACT
RG-178/U, 196	133-5402-001	133-5402-006	No
RG-316/U, 188, 161, 174	133-5403-001	133-5403-006	Yes
RG-316 DS, 188 DS	133-5404-001	133-5404-006	Yes

Assembly instructions page 216.

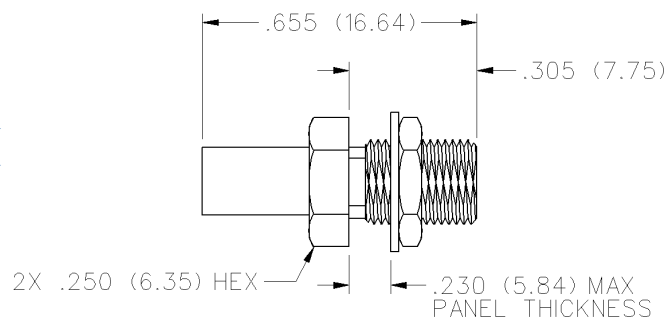
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-178/U, 196	133-5402-101	133-5402-106
RG-316/U, 188, 161, 174	133-5403-101	133-5403-106
RG-316 DS, 188 DS	133-5404-101	133-5404-106

Assembly instructions page 218.

Bulkhead Jack Receptacle - Solder or Crimp Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CAPTIVATED CONTACT
RG-178/U, 196	133-5302-401	133-5302-406	No
RG-316/U, 188, 161, 174	133-5303-401	133-5303-406	Yes
RG-316 DS, 188 DS	133-5304-401	133-5304-406	Yes

Mounting Hole layout figure 5 page 201. Assembly instructions page 216.

MCX Reverse Polarity - 50 Ohm

PC Mount

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

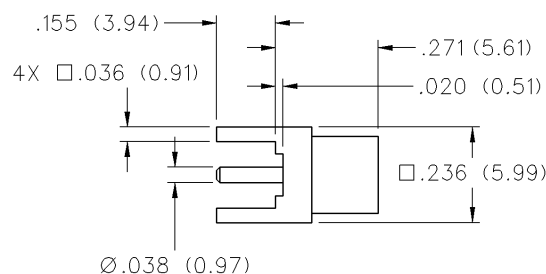
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Straight Jack Receptacle



Reverse
Polarity



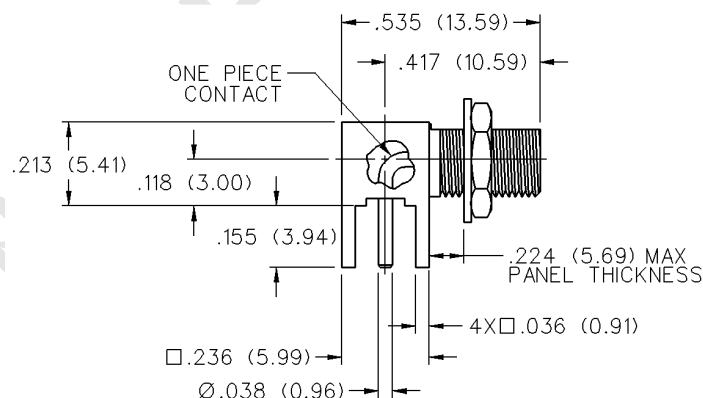
GOLD PLATED	NICKEL PLATED
133-5701-201	133-5701-206

Mounting Hole layout figure 4 page 201.

Right Angle Bulkhead Jack Receptacle



Reverse
Polarity



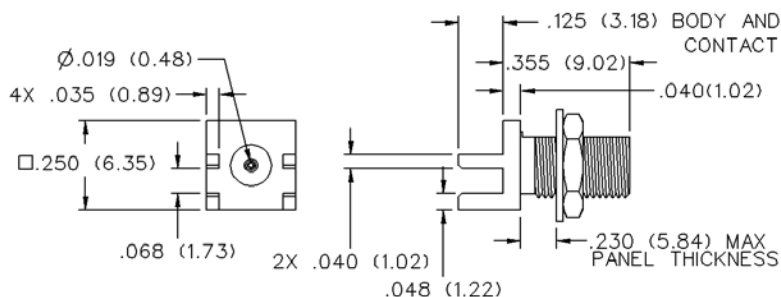
GOLD PLATED	NICKEL PLATED
133-5701-501	133-5701-506

Mounting Hole layout figures 4 and 5 page 201.

End Launch Bulkhead Jack Receptacle - Round Contact



Reverse
Polarity



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
133-5701-801	133-5701-806	.062 (1.57)

ELECTRICAL RATINGS**Impedance:** 75 Ohms**Frequency Range:** 0-6 GHz**VSWR:** (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-179 cable	1.13 + .04f	1.07 + .04f
In-series adapters	1.07 + .03f	
Between-series adapters, loads ...	1.05 + .01f	
Matching pad	1.05 + .05f	
Uncabled receptacles		N/A

Working Voltage: (VRMS maximum)†

Connectors for Cable Type	Sea Level	70K Feet
RG-179	335	85
Uncabled receptacles, adapters	335	85
Loads, matching pad	N/A	

Dielectric Withstanding Voltage: (VRMS minimum at sea level)†

Connectors for RG-179	1000
Uncabled receptacles, adapters	1000
Loads, matching pad	N/A

Corona Level: (Volts minimum at 70,000 feet)†

Connectors for RG-179	250
Uncabled receptacles, adapters	250
Loads, matching pad	N/A

Insertion Loss: (dB maximum, tested at 1 GHz)

Straight cable connectors	0.1 dB
Right angle cable connectors	0.2 dB
Uncabled receptacles, adapters, matching pad	N/A

Insulation Resistance: 10,000 megohms minimum**Contact Resistance:** (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles)	5.0	8.0
Center contact (right angle cabled connectors, adapters)	10.0	15.0
Center contact (loads, matching pads)	N/A	
Outer contact	1.0	1.5
Braid to body (gold plated connectors)	1.0	N/A

RF Leakage: (dB typical tested at 2.5 GHz)

Cable connectors	-55 dB typical
Uncabled receptacles, adapters, loads, matching pads	N/A

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)†

Connectors for RG-179	700
Uncabled receptacles, adapters	600
Loads, matching pad	N/A

Power Rating: (Loads and matching pad only) 1.0 watt at +25°C derated linearly to 0.5 watt at +125°C**MECHANICAL RATINGS****Engagement Design:** Compatible with CECC 22220, Series MCX 50 Ohm**Engagement Force:** 5.6 pounds maximum axial force**Disengagement Force:** 8 pounds maximum axial force, 1 pound min.**Contact Retention:** 2.3 pounds min. axial force (captivated contacts)
1 inch-ounce min. torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-179	20	N/A
Connectors for RG179 DS	25	N/A

*or cable breaking strength whichever is less

Durability: 500 cycles minimum**ENVIRONMENTAL RATINGS**

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: All connectors: - 65°C to + 165°C

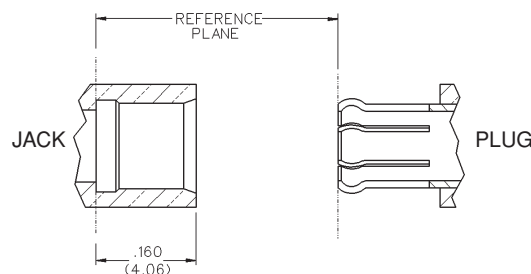
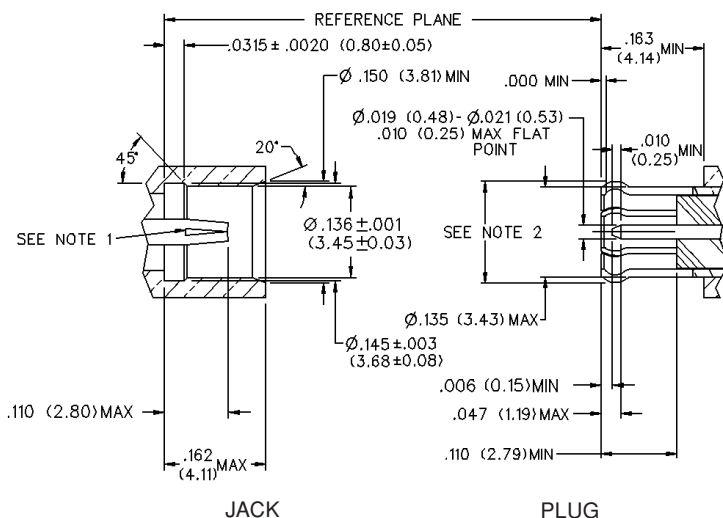
Loads and matching pads: - 65°C to + 125°C

Thermal Shock: MIL-STD-202, Method 107, Condition F**Temperature Coefficient:** Loads and matching pad: +/- 300ppm/°C**Corrosion:** MIL-STD-202, Method 101, Condition B**Shock:** MIL-STD-202, Method 213, Condition B**Vibration:** MIL-STD-202, Method 204, Condition B**Moisture Resistance:** MIL-STD-202, Method 106**MATERIAL SPECIFICATIONS****Bodies:** Brass per QQ-B-626, gold plated** per MIL-G-45204 .00001" min. Interface spring - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.**Contacts:** Male - brass per QQ-B-626 or beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.
Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.**Insulators:** PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457**Expansion Caps:** Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min.**Crimp Sleeves:** Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min.**Mounting Hardware:** Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min.

†Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

Mating Engagement for 75 Ohm MCX Series (Intermutable with CECC 22220 50 Ohm MCX)**NOTES**

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia. .019-.021 (0.48-0.53) male contact.
2. Must meet the force to engage and disengage when mated with mating part.
3. Interface shall intermate with MCX 50 Ohm interface per CECC 22220.

MCX - 75 Ohm Connectors

For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

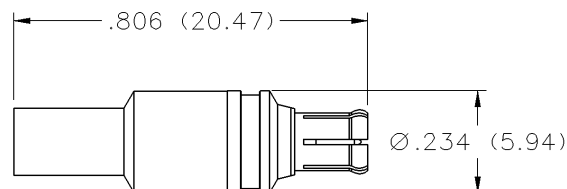
EMERSON
Network Power

Straight Crimp Type Plug - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED
RG-179	133-8433-001
RG-179 DS	133-8434-001
Belden 735A	133-8445-001

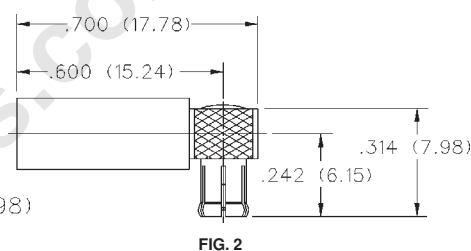
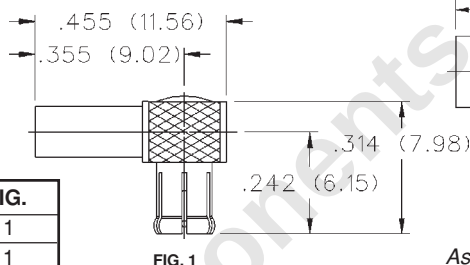
Assembly instructions page 217.
See page 190 for Cable Assembly Tools.



Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	FIG.
RG-179	133-8433-101	1
RG-179 DS	133-8434-101	1
Belden 735A	133-8445-101	2



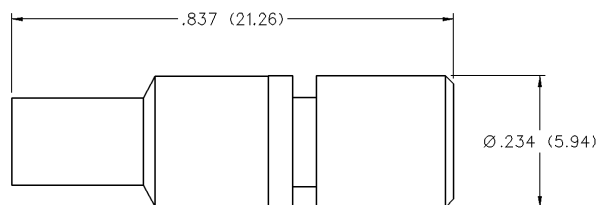
Assembly instructions page 219.
See page 190 for Cable Assembly Tools.

Straight Crimp Type Jack - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED
RG-179	133-8333-001
RG-179DS	133-8334-001

Assembly instructions page 217.
See page 190 for Cable Assembly Tools.

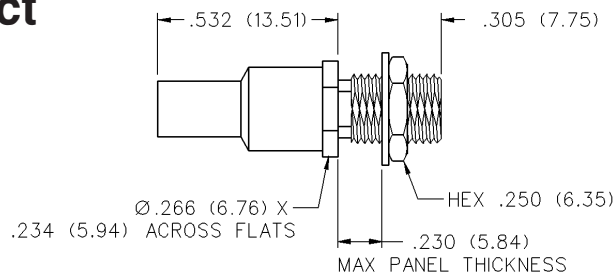


Straight Crimp Type Bulkhead Jack - Solder or Crimp Captivated Contact

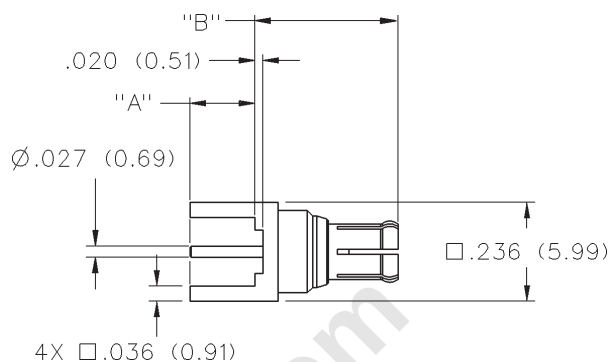


CABLE TYPE	GOLD PLATED
RG-179	133-8333-401
RG-179 DS	133-8334-401

Assembly instructions page 217.
See page 190 for Cable Assembly Tools.
Mounting hole layout figure 5 page 201.



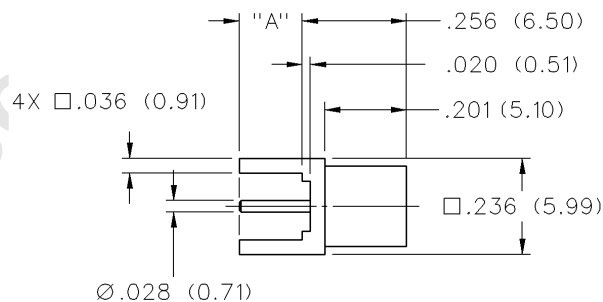
Straight Plug Receptacle



GOLD PLATED	"A"	"B"
133-8801-201	.155 (3.80)	.343 (8.71)
133-8801-211	.110 (2.70)	.343 (8.71)
133-8801-221	.155 (3.80)	.510 (12.95)

Mounting hole layout figure 22 page 203.

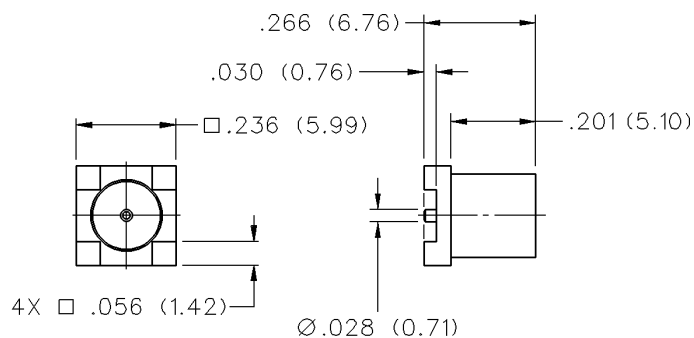
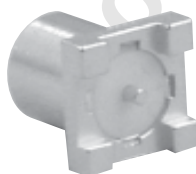
Straight Jack Receptacle



GOLD PLATED	"A"
133-8701-201	.155 (3.80)
133-8701-211	.100 (2.54)

Mounting hole layout figure 22 page 203.

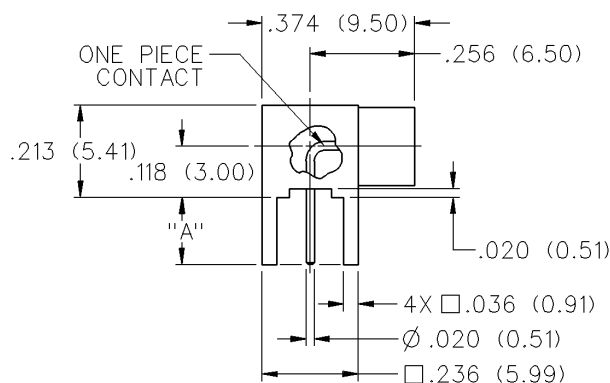
Surface Mount Jack Receptacle



GOLD PLATED	PACKAGING
133-8711-201	Bulk Packs
133-8711-202	Tape and Reel 750 pcs/reel

Recommended Land Pattern figure 13 page 202.

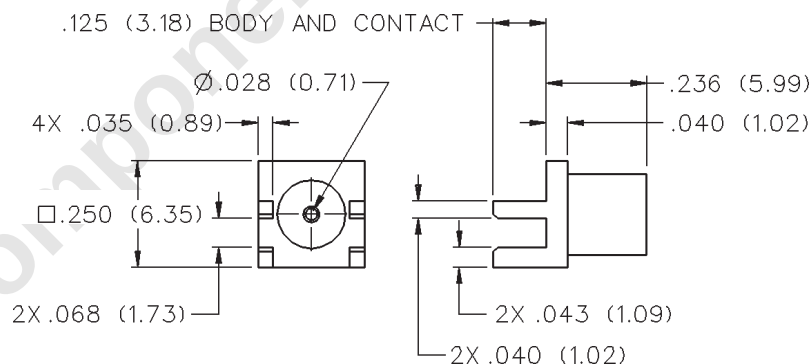
Right Angle Jack Receptacle



GOLD PLATED	"A"
133-8701-301	.155 (3.80)
133-8701-311	.110 (2.70)

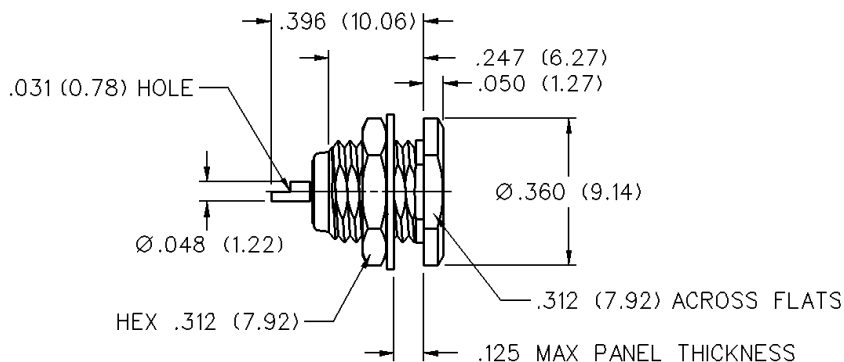
Mounting hole layout figure 3 page 201.

End Launch Jack Receptacle



GOLD PLATED
133-8701-801

Bulkhead Jack Receptacle



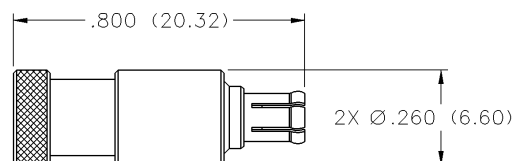
GOLD PLATED
133-8701-401

Mounting hole layout figure 1 page 201.

Plug Precision Load



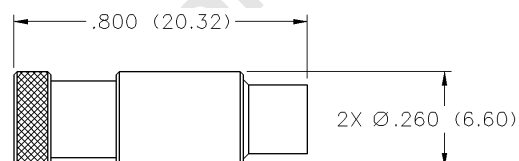
VSWR & FREQ. RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-6 GHz	133-8801-831



Jack Precision Load



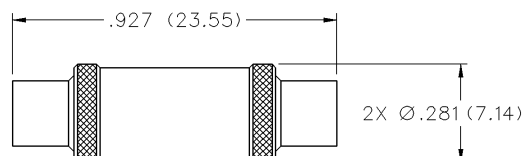
VSWR & FREQ. RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-6 GHz	133-8701-831



Jack to Jack Adapter



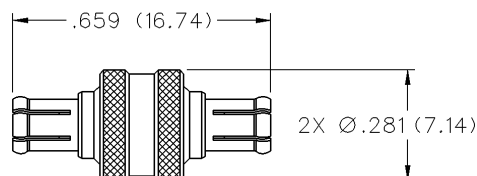
GOLD PLATED
133-8901-801



Plug to Plug Adapter



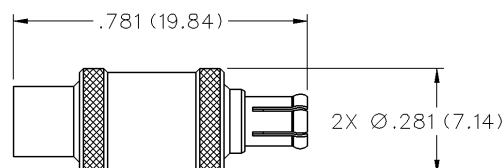
GOLD PLATED
133-8901-811



Jack to Plug Adapter



GOLD PLATED
133-8901-821



MCX - 75 Ohm Connectors

Between-Series Adapters

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

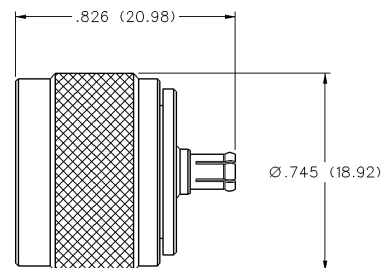


75 Ohm Type N Plug to 75 Ohm MCX Plug Adapter



STAINLESS STEEL PASSIVATED
134-1068-001

Mating Engagement for
75 Ohm N Series see page 113.

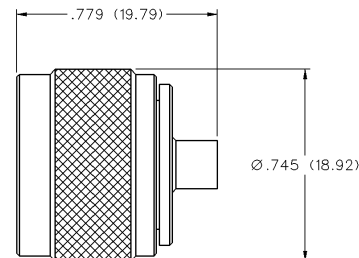


75 Ohm Type N Plug to 75 Ohm MCX Jack Adapter



STAINLESS STEEL PASSIVATED
134-1068-011

Mating Engagement for
75 Ohm N Series see page 113.

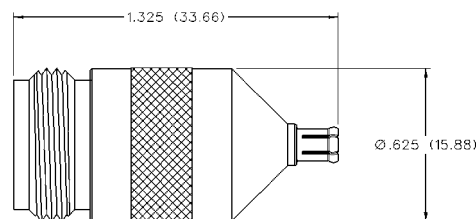


75 Ohm Type N Jack to 75 Ohm MCX Plug Adapter



STAINLESS STEEL PASSIVATED
134-1068-021

Mating Engagement for
75 Ohm N Series see page 113.

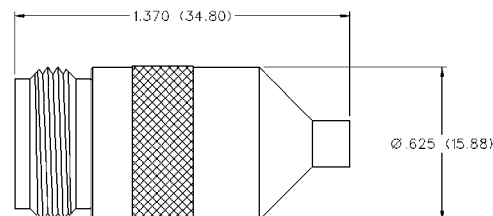


75 Ohm Type N Jack to 75 Ohm MCX Jack Adapter



STAINLESS STEEL PASSIVATED
134-1068-031

Mating Engagement for
75 Ohm N Series see page 113.





Non-Magnetic Connectors

The Johnson line of coaxial connectors utilizes innovative materials and is designed to provide Mil-Spec performance at a commercial price. Now we offer our non-magnetic connectors as a catalog and distributor item.

We have provided custom non-magnetic connectors to the Magnetic Resonance (MR) industry for years. Connector design is derived from many years of working with the MR companies.

The materials and finishes of our connectors meet the stringent limits of image and magnetic field distortion in an MR environment. The connector electrical performance exceeds the frequency requirements of the Receive/Transmit RF Coils in MR equipment.

Copper alloys of the body and contact parts are designed to provide unity, permeability and control magnetic susceptibility. Gold finishes are altered to eliminate magnetic barrier layers and provide excellent corrosion resistance and wear characteristics.

We continue to work with our customers to develop new solutions as the MR industry transitions to high field solutions and improved image resolution at greater physical depths.

MCX Non-Magnetic RF Connectors

For Flexible Cable

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-6 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-316 cable	1.13 + .04f	1.07 + .04f
Uncabled receptacles		N/A

Working Voltage: (VRMS maximum)*

Connectors for Cable Type	Sea Level	70K Feet
RG-316	335	85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)

Connectors for RG-316, uncabled receptacles	1000
---	------

Corona Level: (Volts minimum at 70,000 feet)

Connectors for RG-316, uncabled receptacles	250
---	-----

Insertion Loss: (dB maximum, tested at 1 GHz)

Straight cable connectors	0.1 dB
Right angle cable connectors	0.2 dB
Uncabled receptacles	N/A

Insulation Resistance: 10,000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles)	5.0	8.0
Center contact (right angle cabled connectors)	5.0	15.0
Outer contact	1.0	1.5
Braid to body	1.0	N/A

*Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

RF Leakage: (dB typical tested at 2.5 GHz)

Cable connectors	-55
Uncabled receptacles	N/A

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)

Cabled connectors	700
Uncabled receptacles	600

MECHANICAL RATINGS

Engagement Design: Compatible with CECC 22220, Series MCX

Engagement Force: 5.6 pounds maximum axial force

Disengagement Force: 8 pounds maximum axial force, 1 pound min.

Contact Retention: 2.3 pounds min. axial force (captivated contacts)

1 inch-ounce min. torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG316	20	N/A
Connectors for RG316 DS	25	N/A

* or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-PRF-39012)

Temperature Range: -65°C to +165°C

Thermal Shock: MIL-STD-202, Method 107, Condition F

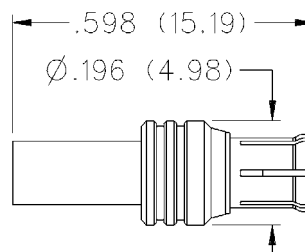
Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition B

Vibration: MIL-STD-202, Method 204, Condition B

Moisture Resistance: MIL-STD-202, Method 106

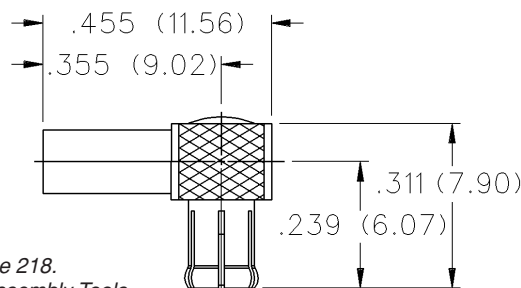
Straight Crimp Type Plug - Solder or Crimp Contact - Captivated Contact



CABLE TYPE	GOLD PLATED
RG-316/U, 188, 174	133-9403-001
RG-316 DS, 188 DS	133-9404-001

Assembly Instructions page 216.
See page 190 for Cable Assembly Tools.

Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED
RG-316/U, 188, 174	133-9403-101
RG-316 DS, 188 DS	133-9404-101

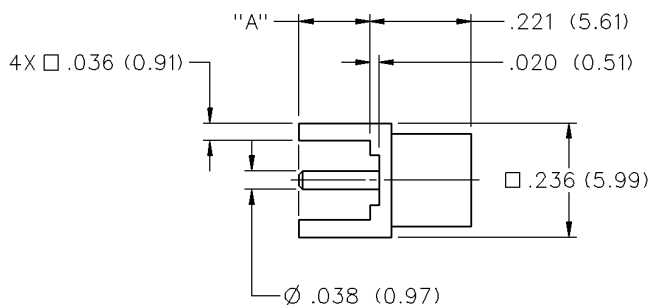
Assembly Instructions page 218.
See page 190 for Cable Assembly Tools.

Straight Jack Receptacle



GOLD PLATED	"A"
133-9701-201	.155 (3.94)
133-9701-211	.110 (2.79)

Mounting hole layout figure 4 page 201.

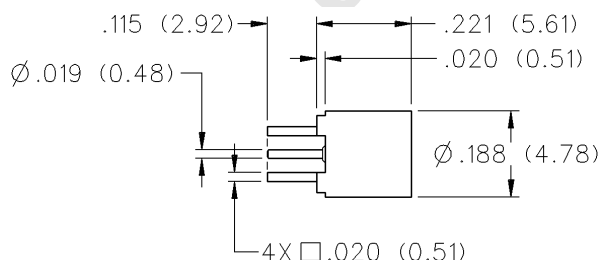


Straight Jack Receptacle - .100" Layout



GOLD PLATED
133-9701-231

Mounting hole layout figure 14 page 202.

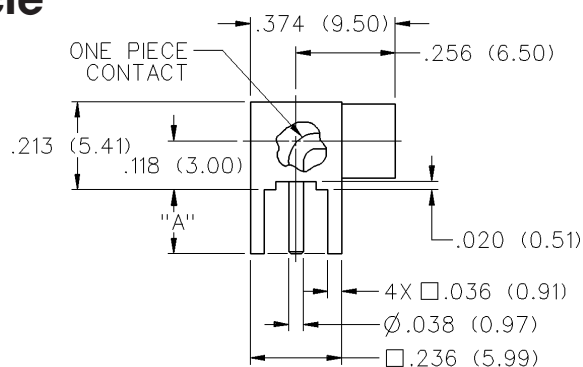


Right Angle Jack Receptacle

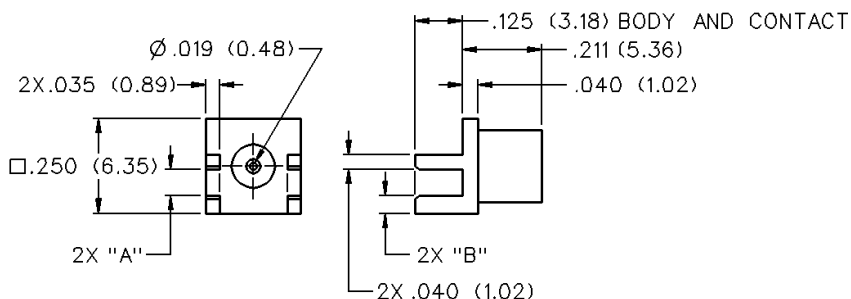


GOLD PLATED	"A"
133-9701-301	.155 (3.94)
133-9701-311	.110 (2.79)

Mounting hole layout figure 4 page 201.



End Launch Jack Receptacle - Round Contact



GOLD PLATED	BOARD THICKNESS	"A"	"B"
133-9701-801	.062 (1.57)	.068 (1.73)	.048 (1.22)

SMK and SMA 50 Ohm Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Alphabetical Index

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST



SMK (2.92 mm) Connectors - 50 Ohm

Field Replaceable	35
In-Series Adapters	37
Semi-Rigid Cables	35
Specifications	33

SMA Connectors - 50 Ohm

Bulkhead Mount	56
Custom Feedthroughs	84
Dummy Loads	73
End Launch	52
Field Replaceable	64
Flexible Cable	44
In-Series Adapters	71
Non-Magnetic	82
Panel Mount	60
PC Mount	49
Reverse Polarity	74
Reverse Thread	78
Semi-Rigid Cable	41
SMA Quick Connect	40
Spark Plugs	57
Specifications	39

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

Johnson SMK (2.92mm) Connectors

The Johnson SMK Connector provides an excellent solution for demanding applications requiring high frequency transmission. Although similar to the SMA interface, a smaller internal body diameter (2.92mm) and air dielectric provide a higher cutoff frequency and other key advantages:

- Precision manufacturing allows superior electrical performance to 40 GHz.
- Female contacts have a unique three-slot construction, which enhances connectivity by creating a more rugged connector while reducing the chance of intermittent connections.
- Precise assembly tooling assures excellent, repeatable contact and support bead location on cabled connectors.
- Connector mating interface per MIL-STD-348
- Mating interface control provides consistent electrical performance.
- The plug connector VSWR is 1.20 Max to 40 GHz and a 12 inch SMK plug to plug cable assembly performs better than 1.35 VSWR to 40 GHz.
- The Field Replaceable Jacks are teamed with a high quality hermetic seal feed thru for use in sealed circuit modules.
- The SMK plug interface employs more precise dimensions than an SMA and uses a shorter snub nose male pin such that the connector bodies align before the contacts engage.



MATERIAL SPECIFICATIONS

Bodies: Stainless steel per QQ-B-626, gold plated* per MIL-G-45204 .00005" min. or passivated per MIL-F-14072 B (EL) 300

Contacts:

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00005" min.

Contact Support Beads: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or modified PPE resin

Seal Rings: Silicone rubber per ZZ-R-765

* All gold plated parts include a .00005" min. nickel underplate barrier layer.

MECHANICAL RATINGS

Engagement Design: MIL-STD-348, Series SMK (2.92mm)

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention: 6 lbs. minimum axial force (captivated contacts)

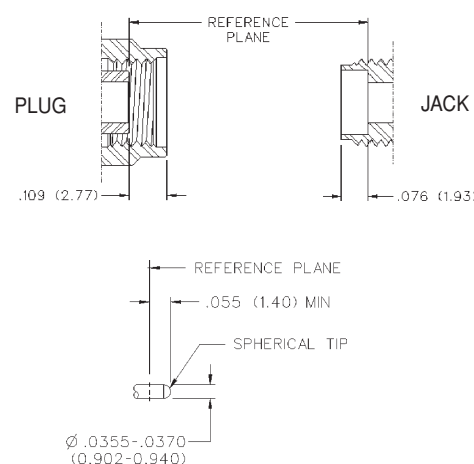
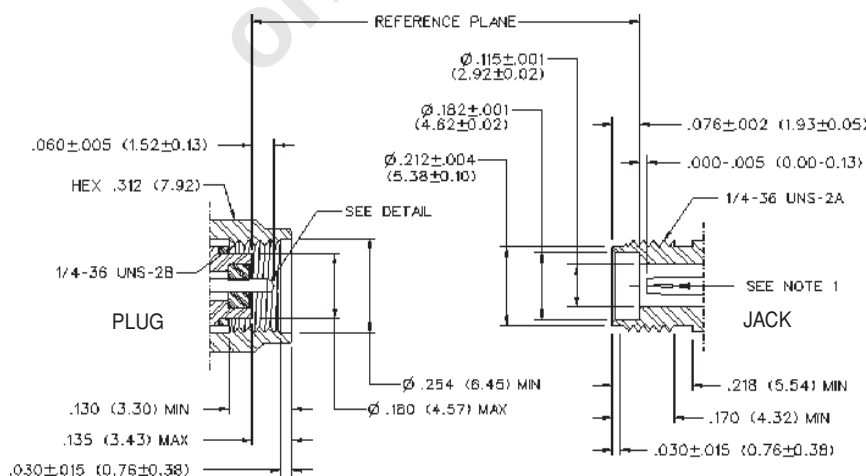
Cable Retention:

	Axial Force* (lbs)	Torque (in-oz)
.086 Semi-Rigid	30	16
.141 Semi-Rigid	60	55

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

Mating Engagement for SMK (2.92mm) Series



Notes:

1. ID of contact shall meet VSWR and connectivity requirements when mated with dia. .0355-.0365 male pin.

SMK - 50 Ohm Connectors

(2.92mm)

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range: 0-40 GHz

VSWR: (f = GHz)

Semi-Rigid straight cabled connectors and adapters 1.20 Max

Field replaceable (see typical return loss graph) N/A

Working Voltage: (VRMS maximum)

Connectors for Cable Type

Sea Level 70K Feet

.086 Semi-Rigid and field replaceable 335 85

.141 Semi-Rigid and adapters 500 125

Dielectric Withstanding Voltage: (VRMS minimum at sea level)

.086 Semi-Rigid and field replaceable 1000

.141 Semi-Rigid and adapters 1500

Corona Level: (Volts minimum at 70,000 feet)

.086 Semi-Rigid and field replaceable 250

.141 Semi-Rigid and adapters 375

Insertion Loss: (dB maximum)

Adapters $0.06\sqrt{f}$ (GHz), tested at 6 GHz

Straight Semi-Rigid cable connectors $0.03\sqrt{f}$ (GHz), tested at 10 GHz

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum) Initial After Environmental

Center contact straight cabled connectors ... 3.0* 4.0

Center contact adapters 4.0 6.0

Field replaceable connectors 6.0 8.0

Outer contact (all connectors) 2.0 N/A

Body to cable (gold plated connectors) 0.5 N/A

Body to cable (passivated connectors) 5.0 N/A

RF Leakage: (dB minimum, tested at 2.5 GHz) -90dB

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)=

.086 Semi-Rigid and field replaceable 670

.141 Semi-Rigid and adapters 1000

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

FIELD REPLACEABLE APPLICATION NOTES

These field replaceable connectors are easy to install and replace. The hermetic seal is mounted into the circuit module wall and the connector can be removed and replaced without destroying the hermeticity of the circuit housing.

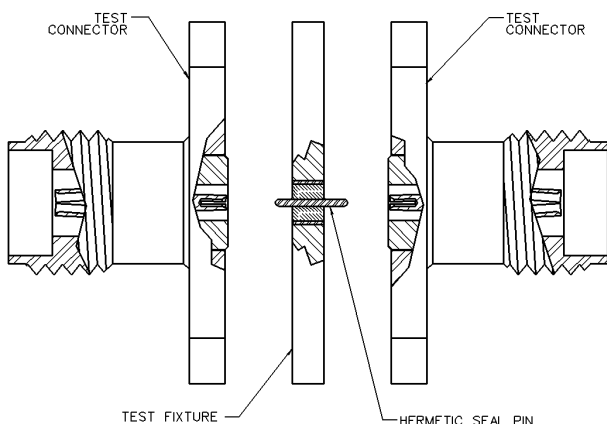
The field replaceable connector creates a transition from microstrip circuitry to a coaxial transmission line. The SMK (2.92mm) seal pin diameter is .012 (.030) to minimize the capacitive effects on the circuit trace. For optimum electrical performance, the transition from the hermetic seal to the microstrip trace must be properly compensated which involves adjusting the microstrip trace width to minimize any impedance discontinuities found in the transition area.

The plot shown below is representative of the typical return loss of a Johnson field replaceable SMK connector. To produce the data shown below, a test fixture is created using the Johnson SMK hermetic seal. The fixture consists of a suitably thick spacer plate with the hermetic seal mounted flush to both surfaces. Two connectors are mounted back to back around the fixture and the VSWR of this test assembly is measured. The calculated return loss trace shown is equivalent to the square root of the measured VSWR of the test assembly. Since the connectors tested are of identical design, it can be stated with fair accuracy that the calculated data shown represents the response of a single field replaceable connector and its transition to the hermetic seal.

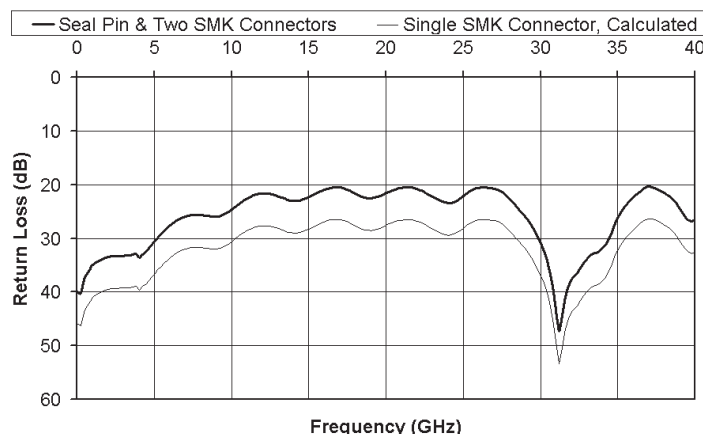
Although we do not publish a VSWR specification for field replaceable connectors, typical connector return loss can be expected to be better than 20 dB through 40 GHz. A VSWR specification is not stated because an industry standard method for testing field replaceable connectors does not exist. The actual performance of the connector is dependent upon the following:

1. For optimum electrical performance, we recommend the use of our standard 142-1000-033 hermetic seal with a pin diameter of .0120 (0.305) +/- .0005 (0.013).
2. It is recommended that the hermetic seal be mounted flush with the circuit housing. Tolerance variations between the hermetic seal and machined housing do not always guarantee an optimum transition to the connector. Some manufacturers recommend an additional counterbore in the circuit housing to accommodate a solder washer during installation of the seal. We do not recommend this type of installation because, if the counterbore is not completely filled with solder, electrical discontinuities may be created.
3. The transition between the hermetic seal pin and the microstrip trace will effect electrical performance, as stated above. Several different methods of hermetic seal mounting and seal pin to microstrip trace attachment are used in the industry.

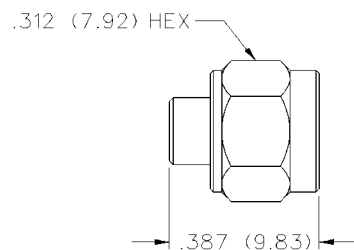
FIELD REPLACEABLE TEST ASSEMBLY



TYPICAL RETURN LOSS



Straight Solder Type Plug - with Contact, Slide-On Nut



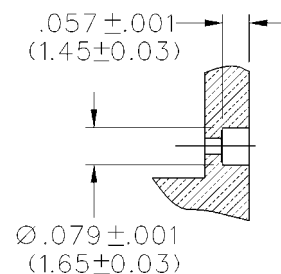
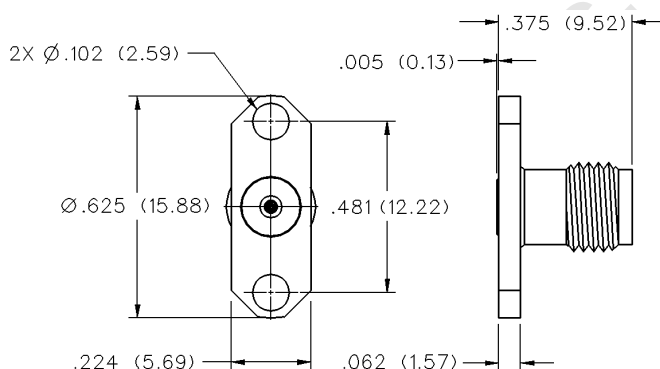
CABLE TYPE	GOLD PLATED	PASSIVATED*
.086 Semi-Rigid	145-0693-001	145-0693-002
.141 Semi-Rigid	145-0694-001	145-0694-002

Assembly instructions see page 220.

See page 193 for Cable Assembly Tools.

* Passivated coupling nut, gold plated body.

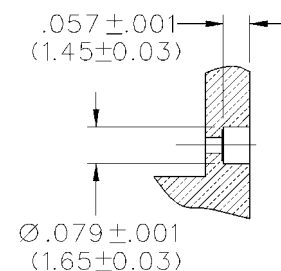
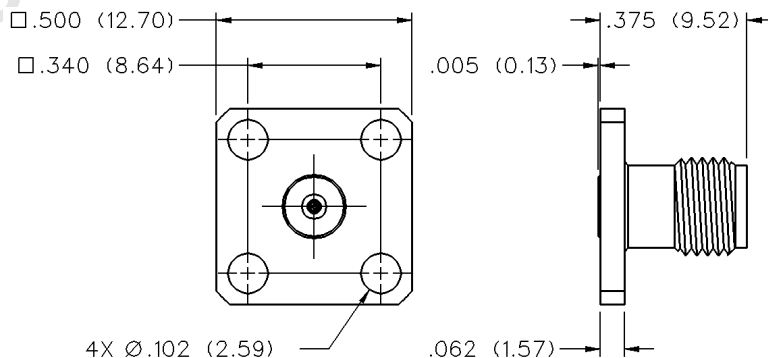
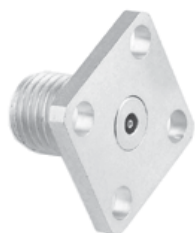
2-Hole Flange Mount Jack Receptacle



Mounting Hole Layout

GOLD PLATED	PASSIVATED	ACCEPTS PIN SIZE
145-0701-601	145-0701-602	.0120 +/- .0005 (0.305 +/- .013)

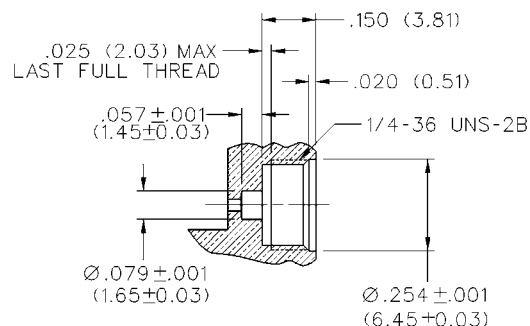
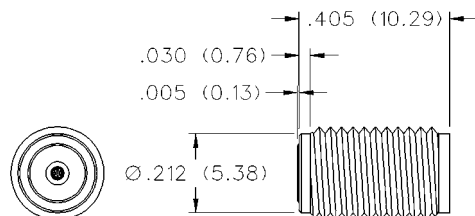
4-Hole Flange Mount Jack Receptacle



Mounting Hole Layout

GOLD PLATED	PASSIVATED	ACCEPTS PIN SIZE
145-0701-611	145-0701-612	.0120 +/- .0005 (0.305 +/- .013)

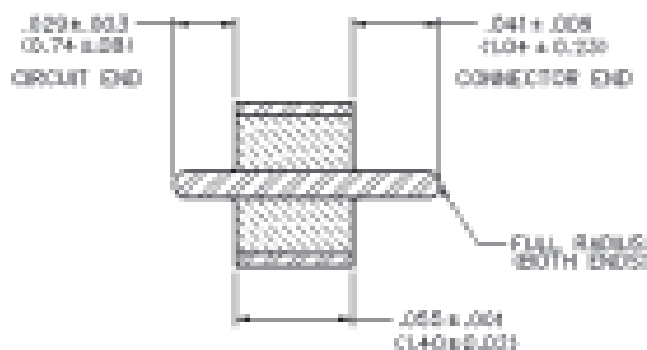
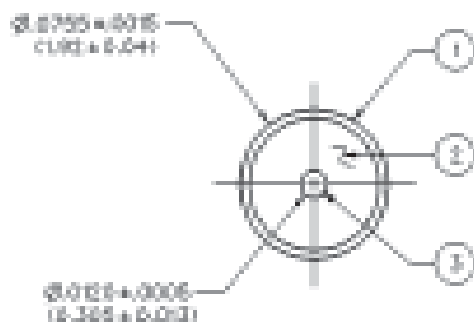
Jack Receptacle - Thread Mount Field Replaceable



GOLD PLATED	PASSIVATED	ACCEPTS PIN SIZE
145-0701-001	145-0701-002	.0120 +/- .0005 (0.305 +/- 0.013)

Mounting Hole Layout

Hermetic Seal Feedthru



PART NO.	ITEM 1 OUTER RING	ITEM 2 INSULATOR	ITEM 3 PIN
142-1000-033	Kovar Gold pl .00005 min. over Nickel pl .00005 min.	Glass Corning 7070 or equivalent	Kovar Gold pl .00005 min. over Nickel pl .00005 min.

Electrical:

Impedance: 50 Ohms
 Frequency Range: DC to 40 GHz
 VSWR: Dependent upon application
 Working Voltage: 250 VRMS max at sea level
 Dielectric Withstanding Voltage: 500 VRMS min. at sea level
 Insulation Resistance: 5000 Megohm min.
 Insertion Loss: 0.2 dB max at 40 GHz

Environmental:

Hermeticity: 1×10^{-8} cc/sec at one atmosphere
 Solderability: MIL-STD-202, Method 209
 Operating Temperature: -55°C to +165°C

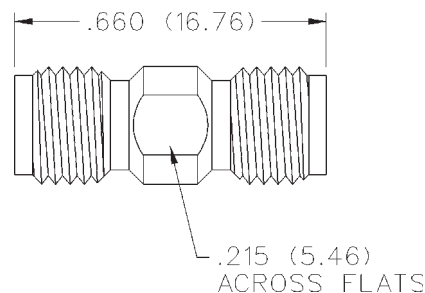
Notes:

- The hermetic seal should be mounted as flush as possible with the housing. Excessive recession will create a high impedance air gap between connection and housing which degrades electrical performance.
- The use of an additional counterbore to accommodate a solder ring for seal mounting is not recommended. A slight chamfer may be used if care is taken to completely fill the area with solder - **avoid air gaps**.

Jack to Jack In-Series Adapter



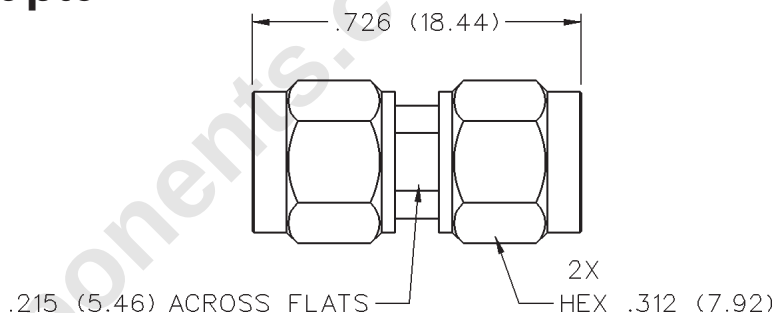
GOLD PLATED
145-0901-801



Plug to Plug In-Series Adapter



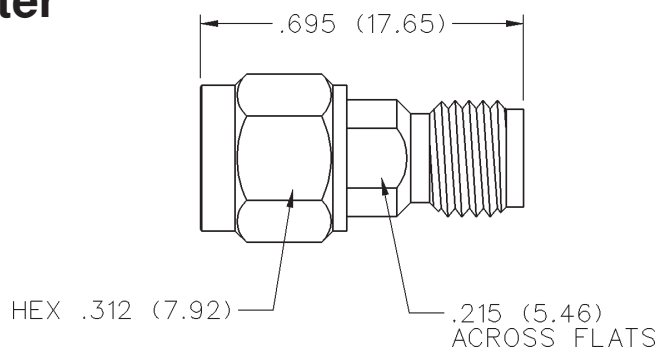
GOLD PLATED
145-0901-811



Plug to Jack In-Series Adapter



GOLD PLATED
145-0901-821



SMA - 50 Ohm Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST



ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range:

Dummy loads	0-2 GHz
Flexible cable connectors	0-12.4 GHz
Uncabled receptacles, RA Semi-Rigid and adapters	0-18.0 GHz
Straight Semi-Rigid cable connectors and field replaceable connectors	0-26.5 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-178 cable	1.20 + .025f	1.20 + .03f
RG-316, LMR-100 cable	1.15 + .02f	1.15 + .03f
RG-58, LMR-195 cable	1.15 + .01f	1.15 + .02f
RG-142 cable	1.15 + .01f	1.15 + .02f
LMR-200, LMR-240 cable	1.10 + .03f	1.10 + .06f
.086 Semi-Rigid	1.07 + .008f	1.18 + .015f
.141 Semi-Rigid (w/contact)	1.05 + .008f	1.15 + .015f
.141 Semi-Rigid (w/o contact)	1.035 + .005f	
Jack-bulkhead jack adapter and plug-plug adapter	1.05 + .01f	
Jack-jack adapter and plug-jack adapter	1.05 + .005f	
Uncabled receptacles, dummy loads	N/A	
Field replaceable (see page xx)	N/A	

Working Voltage: (VRMS maximum)*

Connectors for Cable Type	Sea Level	70K Feet
RG-178	170	45
RG-316; LMR-100, 195, 200	250	65
RG-58, RG-142, LMR-240, .086 Semi-Rigid, uncabled receptacles, .141 Semi-Rigid w/o contact .	335	85
.141 Semi-Rigid with contact and adapters	500	125
Dummy loads	N/A	

Dielectric Withstanding Voltage: (VRMS minimum at sea level)*

Connectors for RG-178	500
Connectors for RG-316; LMR-100, 195, 200	750
Connectors for RG-58, RG-142, LMR-240, .086 Semi-Rigid, field replaceable, uncabled receptacles	1000
Connectors for .141 Semi-Rigid with contact and adapters	1500
Connectors for .141 Semi-Rigid w/o contact, dummy loads	N/A

Corona Level: (Volts minimum at 70,000 feet)*

Connectors for RG-178	125
Connectors for RG-316; LMR-100, 195, 200	190
Connectors for RG-58, RG-142, LMR-240, .086 Semi-Rigid, uncabled receptacles, .141 Semi-Rigid w/o contact	250
Connectors for .141 Semi-Rigid with contact and adapters	375
Dummy loads	N/A

Insertion Loss: (dB maximum)

Straight flexible cable connectors and adapters	$0.06\sqrt{f}$ (GHz), tested at 6 GHz
Right angle flexible cable connectors	$0.15\sqrt{f}$ (GHz), tested at 6 GHz
Straight Semi-Rigid cable connectors with contact	$0.03\sqrt{f}$ (GHz), tested at 10 GHz
Right angle Semi-Rigid cable connectors	$0.05\sqrt{f}$ (GHz), tested at 10 GHz
Straight Semi-Rigid cable connectors w/o contact	$0.03\sqrt{f}$ (GHz), tested at 16 GHz
Straight low loss flexible cable connectors	$0.06\sqrt{f}$ (GHz), tested at 1 GHz
Right Angle low loss flexible cable connectors	$0.15\sqrt{f}$ (GHz), tested at 1 GHz
Uncabled receptacles, field replaceable, dummy loads	N/A

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum) Initial After Environmental

Center contact (straight cabled connectors and uncabled receptacles)	3.0*	4.0*
Center contact (right angle cabled connectors and adapters)	4.0	6.0
Field replaceable connectors	6.0	8.0
Outer contact (all connectors)	2.0	N/A
Braid to body (gold plated connectors)	0.5	N/A
Braid to body (nickel plated connectors)	5.0	N/A

*N/A where the cable center conductor is used as a contact

RF Leakage: (dB minimum, tested at 2.5 GHz)

Flexible cable connectors, adapters and .141 Semi-Rigid connectors w/o contact	-60 dB
Field replaceable w/o EMI gasket	-70 dB
.086 Semi-Rigid connectors and .141 Semi-Rigid connectors with contact, and field replaceable with EMI Gasket	-90 dB
Two-way adapters	-90 dB
Uncabled receptacles, dummy loads	N/A

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)*

Connectors for RG-178	335
Connectors for RG-316; LMR-100, 195, 200	500
Connectors for RG-58, RG-142, LMR-240, .086 Semi-Rigid, .141 Semi-Rigid cable w/o contact, uncabled receptacles	670
Connectors for .141 Semi-Rigid with contact and adapters	1000

Power Rating (Dummy Load): 0.5 watt @ + 25°C, derated to 0.25 watt @ +125°C

MECHANICAL RATINGS

Engagement Design: MIL-C-39012, Series SMA

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Bulkhead Mounting Nut Torque: 15 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention:

6 lbs. minimum axial force (captivated contacts)

4 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:

	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-178	10	N/A
Connectors for RG-316, LMR-100	20	N/A
Connectors for LMR-195, 200	30	N/A
Connectors for RG-58, LMR-240	40	N/A
Connectors for RG-142	45	N/A
Connectors for .086 Semi-Rigid	30	16
Connectors for .141 Semi-Rigid	60	55

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

100 cycles minimum for .141 Semi-Rigid connectors w/o contact

ENVIRONMENTAL RATINGS (Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

*Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or Tefzel per ASTM D 3159 or PFA 340 per ASTM D 3307

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

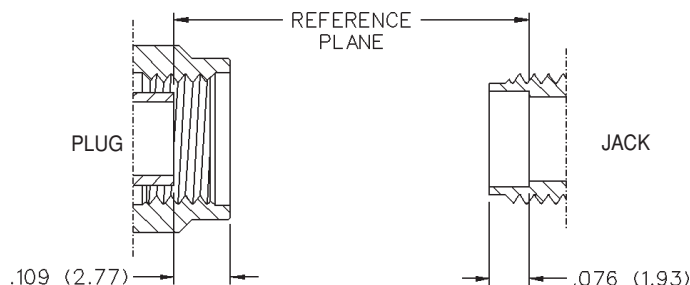
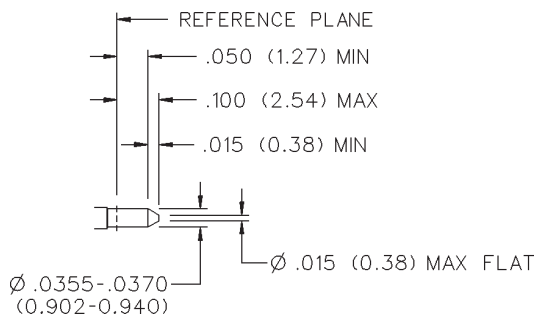
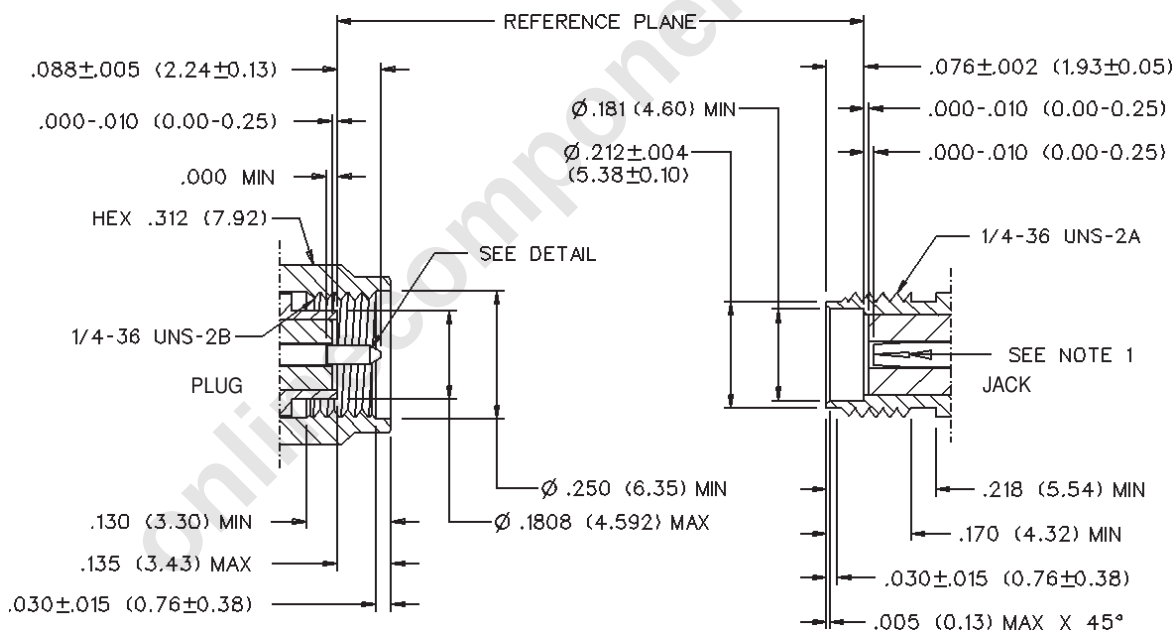
Seal Rings: Silicone rubber per ZZ-R-765

EMI Gaskets: Conductive silicone rubber per MIL-G-83528, Type M

* All gold plated parts include a .00005" min. nickel underplate barrier layer.

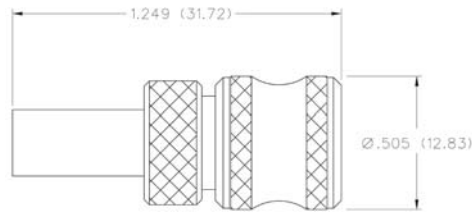
Mating Engagement for SMA Series

1. ID TO MEET VSWR, CONTACT RESISTANCE AND INSERTION WITHDRAWAL FORCES WHEN MATED WITH A DIA .0355-.0370 PIN.



NOTES

1. ID of contact to meet VSWR, contact resistance and insertion withdrawal forces when mated with dia .0355-.0370 male pin.

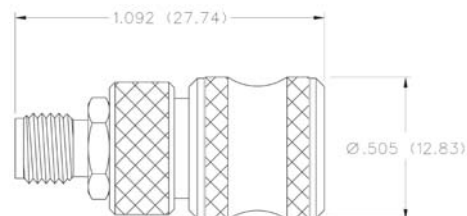
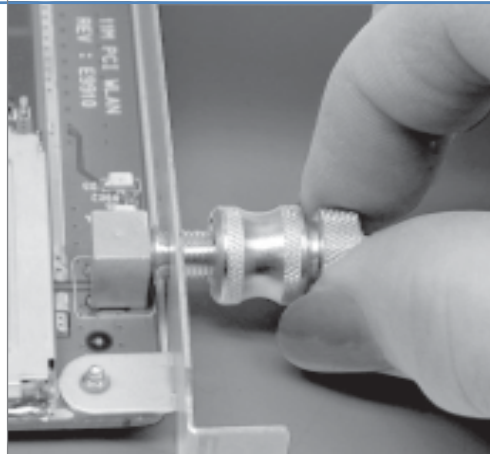


The Johnson SMA **Quick-Connect** Plug quickly mates to a standard, threaded SMA Jack receptacle allowing rapid test connections to devices utilizing SMA threaded jacks.

SMA electrical performance is not compromised because the connector retains all the benefits of a threaded coaxial coupling. The final connection is a solid metal to metal coupling not relying on spring forces to maintain the coupling. This results in a more reliable connection with less signal leakage and a lower VSWR than most push-on connectors.

Full Mil-C-39012 electrical compatibility is obtained with a push and twist motion. The knurled thumbnut requires only one half to one full turn to create a solid electromechanical connection. Rapid disconnect is accomplished with a twist and pull motion.

The SMA **Quick-Connect** Plug Adapter converts a standard SMA Plug test cable into a **Quick-Connect** cable. This makes the testing process more efficient by reducing the time and effort required to connect and disconnect the test cable.



SMA Quick-Connect Product Family

P L U G S		
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED*
RG-161/U, 174, 188, 316	1.15 +.02f (GHz) 0-12.4 GHz	142-1403-001
RG-188 DS, RG-316 DS	1.15 +.02f (GHz) 0-12.4 GHz	142-1404-001
RG-58/U, 141, 303	1.15 +.01f (GHz) 0-12.4 GHz	142-1407-001
RG-55/U, 142, 223, 400	1.15 +.01f (GHz) 0-12.4 GHz	142-1408-001

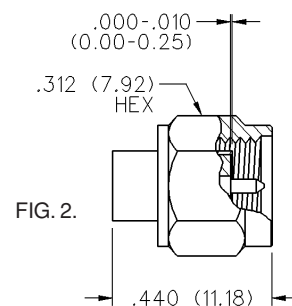
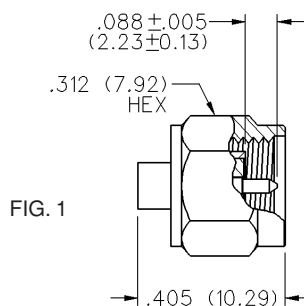
A D A P T E R	
VSWR & FREQ. RANGE	GOLD PLATED*
1.05 +.005f (GHz) 0-18 GHz	142-1901-821

*Nickel plated coupling hardware, gold plated body

Assembly instructions page 229.

See page 190 for Cable Assembly Tools.

Straight Solder Type Plug - with Contact, Captive Nut Thin Wall Connector Interface for .141 Cable



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	FIG.
.086 Semi-Rigid	1.07 + .008f (0-18 GHz) 1.35 Max (18-26.5 GHz)	142-0693-001	142-0693-006	1
.141 Semi-Rigid	1.05 + .008f (0-26.5 GHz)	142-0694-001*	142-0694-006*	2

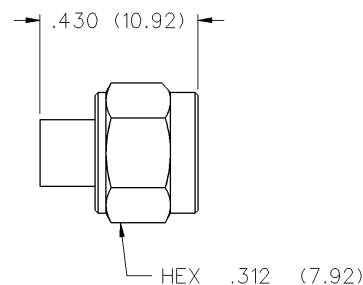
Assembly instructions page 222. *Mating torque 8 inch-pounds maximum, coupling proof torque 8 in-lb max.

Straight Solder Type Plug - without Contact, Thread-on Nut

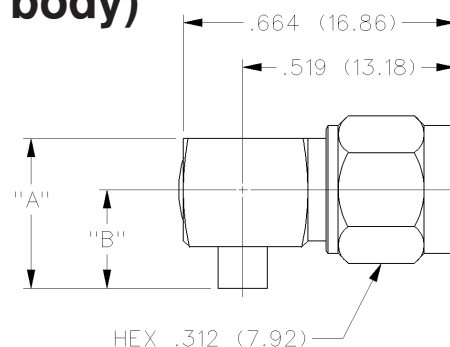


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.141 Semi-Rigid	1.035 + .005f (0-26.5 GHz)	142-0694-011	142-0694-016

Assembly instructions page 223. Center conductor of cable serves as contact.



Right Angle Solder Type Plug (1-piece body)



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
.086 Semi-Rigid	1.18 + .015f (0-12.4 GHz) 1.15 + .04f (12.4-18 GHz)	142-0693-101	142-0693-106	.336 (8.53)	.253 (6.43)
.141 Semi-Rigid	1.15 + .015f (0-12.4 GHz) 1.15 + .04f (12.4-18 GHz)	142-0694-101	142-0694-106	.462 (11.73)	.306 (7.77)

Assembly instructions page 221.

SMA - 50 Ohm Connectors

For Semi-Rigid Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

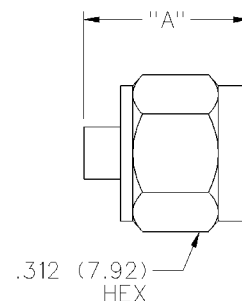
EMERSON
Network Power

Straight Solder Type Plug - with Contact, Thread-on Nut



Assembly instructions page 226.

CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
.086 Semi-Rigid	1.07 + .008f (0-18 GHz) 1.35 Max (18-26.5 GHz)	142-0693-051	142-0693-056	.405 (10.29)
.141 Semi-Rigid	1.05 + .008f (GHz) 0-26.5 GHz	142-0694-051	142-0694-056	.438 (11.13)



Straight Solder Type Plug - Short Profile - without Contact, Captive Nut

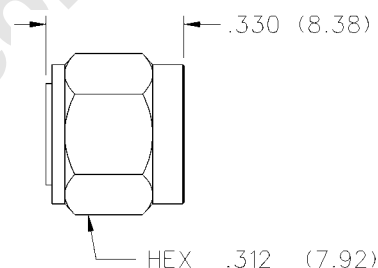


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.141 Semi-Rigid	1.035 + .005f (GHz) 0-26.5 GHz	142-0694-031	142-0694-036

Assembly instructions page 225.

Center conductor of cable serves as contact.

See page 192 for coupling nut assembly tool.



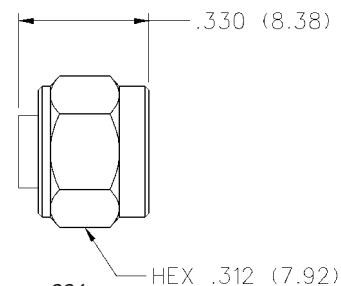
Straight Solder Type Plug - without Contact, Slide-on Nut



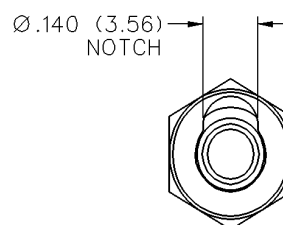
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.141 Semi-Rigid	1.035 + .005f (GHz) 0-26.5 GHz	142-0694-021	142-0694-026

Assembly instructions page 224.

Center conductor of cable serves as contact.



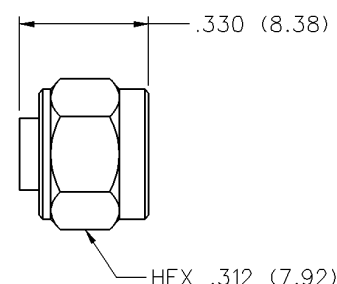
Straight Solder Type Plug - without Contact, Slide-on Notched Nut



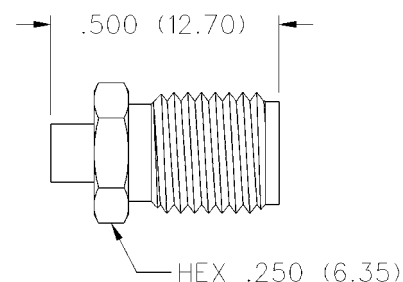
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.141 Semi-Rigid	1.035 + .005f (GHz) 0-26.5 GHz	142-0694-041	142-0694-046

Assembly instructions page 224.

Center conductor of cable serves as contact.



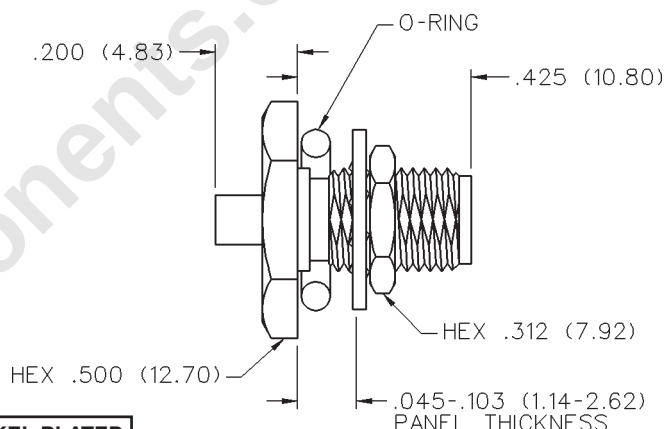
Straight Solder Type Jack



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	0-18 GHz: 1.07 + .008f (GHz) 26.5 GHz: 1.35 Max	142-0593-001	142-0593-006
.141 Semi-Rigid	0-26.5 GHz: 1.05+.008f (GHz)	142-0594-001	142-0594-006

Assembly instructions page 222.

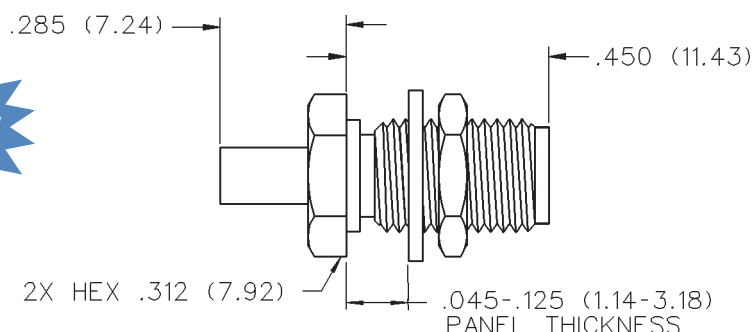
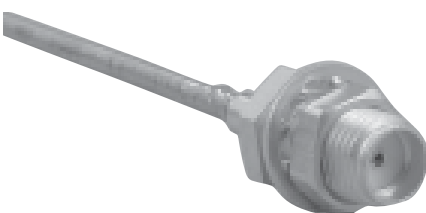
Straight Solder Type Bulkhead Jack with O-Ring



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	0-18 GHz: 1.07 + .008f (GHz) 26.5 GHz: 1.35 Max	142-0593-401	142-0593-406
.141 Semi-Rigid	0-26.5 GHz: 1.05+.008f (GHz)	142-0594-401	142-0594-406

Assembly Instructions page 222.
Mounting hole layout figure 1 page 201.

Straight Solder Type Bulkhead Jack



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED
.086 Semi-Rigid	0-18 GHz: 1.20 + .025f (GHz)	142-0593-411

Assembly Instructions page 222.
Mounting hole layout figure 1 page 201.

SMA - 50 Ohm Connectors

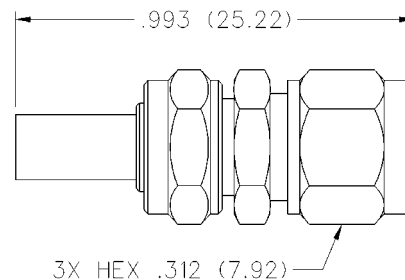
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Straight Crimp Type Plug - Captivated Contact

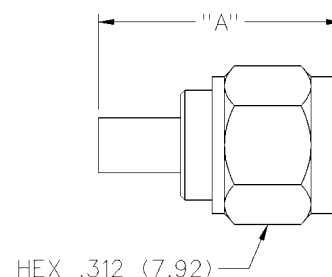


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174,188, 316	1.15 + .02f (GHz) 0-12.4 GHz	142-0403-001	142-0403-006

Assembly instructions page 231.

See page 190 for Cable Assembly Tools.

Straight Crimp Type Plug (3-piece) - Solder or Crimp Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-178/U, 196	1.20 + .025f (GHz) 0-12.4 GHz	142-0402-011	142-0402-016	.591 (15.01)
RG-161/U, 174,188, 316, LMR-100, HPF-100, RF-100	1.15 + .02f (GHz) 0-12.4 GHz	142-0403-011	142-0403-016	.706 (17.93)
RG-188 DS, RG-316 DS	1.15 + .02f (GHz) 0-12.4 GHz	142-0404-011	142-0404-016	.706 (17.93)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.15 + .01f (GHz) 0-12.4 GHz	142-0407-011	142-0407-016	.706 (17.93)
RG-55/U, 142, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-0408-011	142-0408-016	.706 (17.93)
RG-179/U, 187	N/A	142-0433-011	142-0433-016	.706 (17.93)
LMR-200, HPF-200, RF-200	1.10 + .03f (GHz) 0-12.4 GHz	142-0439-001	142-0439-006	.844 (21.44)
LMR-240, HPF-240, RF-240	1.10 + .03f (GHz) 0-12.4 GHz	142-0435-001	142-0435-006	.844 (21.44)

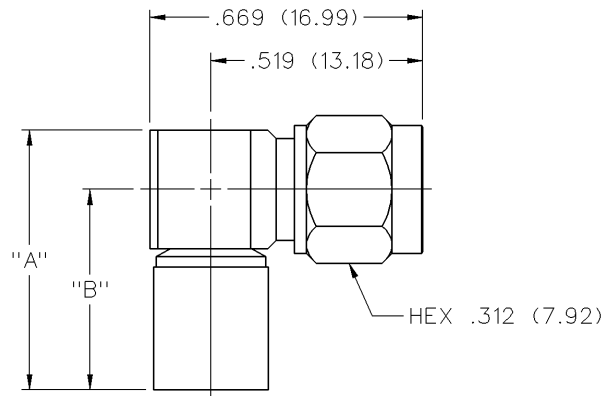
Assembly instructions: RG-178 page 228.

LMR 195, 200 and 240, see page 230.

Other cable groups, see page 229.

See page 190 for Cable Assembly Tools.

Right Angle Crimp Type Plug - Captivated Contact



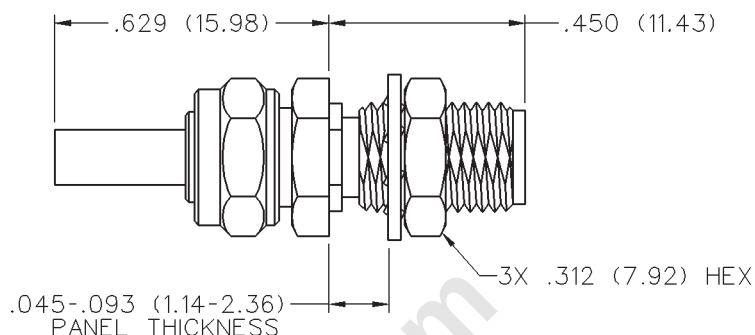
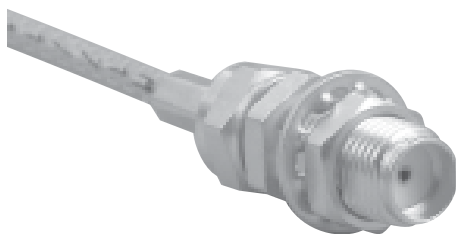
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
RG-178/U, 196	1.20 + .03f (GHz) 0-12.4 GHz	142-0402-101	142-0402-106	.611 (15.52)	.470 (11.94)
R-161/U, 174, 188, 316	1.15 + .03f (GHz) 0-12.4 GHz	142-0403-101	142-0403-106	.611 (15.52)	.470 (11.94)
RG-188 DS, RG-316 DS	1.15 + .03f (GHz) 0-12.4 GHz	142-0404-101	142-0404-106	.611 (15.52)	.470 (11.94)
RG-58/U, 141, 303	1.15 + .02f (GHz) 0-12.4 GHz	142-0407-101	142-0407-106	.611 (15.52)	.470 (11.94)
RG-55/U, 142, 223, 400	1.15 + .02f (GHz) 0-12.4 GHz	142-0408-101	142-0408-106	.611 (15.52)	.470 (11.94)
RG-179/U, 187	N/A	142-0433-101	142-0433-106	.611 (15.52)	.470 (11.94)
LMR-100, HPF-100, RF-100	1.15 + .03f (GHz) 0-12.4 GHz	142-0403-101	142-0403-106	.611 (15.52)	.470 (11.94)
LMR-195, HPF-195, RF-195	1.15 + .02f (GHz) 0-12.4 GHz	142-0407-101	142-0407-106	.611 (15.52)	.470 (11.94)
LMR-200, HPF-200, RF-200	1.10 + .06f (GHz) 0-12.4 GHz	142-0439-101	142-0439-106	.611 (15.52)	.470 (11.94)
LMR-240, HPF-240, RF-240	1.10 + .06f (GHz) 0-12.4 GHz	142-0435-101	142-0435-106	.635 (16.13)	.490 (12.45)

Assembly instructions: LMR 195, 200 and 240 page 233.

Other cable groups, see page 232.

See page 190 for Cable Assembly Tools.

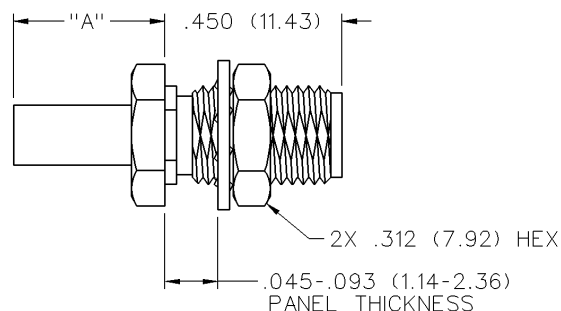
Straight Crimp Type Bulkhead Jack - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
RG-178/U, 196	1.20 + .025f (GHz) 0-12.4 GHz	142-0302-401	142-0302-406
RG-161/U, 174,188, 316	1.15 + .02f (GHz) 0-12.4 GHz	142-0303-401	142-0303-406
RG-188 DS, RG-316 DS	1.15 + .02f (GHz) 0-12.4 GHz	142-0304-401	142-0304-406
RG-58/U, 141, 303	1.15 + .01f (GHz) 0-12.4 GHz	142-0307-401	142-0307-406
RG-55/U, 142, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-0308-401	142-0308-406

Assembly instructions page 231.
Mounting Hole layout figure 1 page 201.
See page 190 for Cable Assembly Tools.

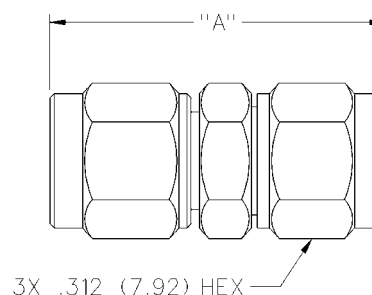
Straight Crimp Type Bulkhead Jack (3-piece) - Solder or Crimp Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-178/U, 196	1.20 + .025f (GHz) 0-12.4 GHz	142-0302-431	142-0302-436	.285 (7.24)
RG-161/U, 174, 188, 316, LMR-100, HPF-100, RF-100	1.15 + .02f (GHz) 0-12.4 GHz	142-0303-411	142-0303-416	.385 (9.78)
RG-188 DS, RG-316 DS	1.15 + .02f (GHz) 0-12.4 GHz	142-0304-411	142-0304-416	.385 (9.78)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.15 + .01f (GHz) 0-12.4 GHz	142-0307-411	142-0307-416	.385 (9.78)
RG-55/U, 142, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-0308-411	142-0308-416	.385 (9.78)
RG-179/U, 187	N/A	142-0333-411	142-0333-416	.385 (9.78)
LMR-200, HPF-200, RF-200	1.10 + .03f (GHz) 0-12.4 GHz	142-0339-401	142-0339-406	.545 (13.84)
LMR-240, HPF-240, RF-240	1.10 + .03f (GHz) 0-12.4 GHz	142-0335-401	142-0335-406	.545 (13.84)

RG-178 cable group assembly instructions page 228. LMR cables, see page 230. Other cable sizes page 229.
Mounting hole layout figure 1 page 201. See page 190 for Cable Assembly Tools.

Straight Clamp Type Plug - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-178/U, 196	1.20 + .025f (GHz) 0-12.4 GHz	142-0202-011	142-0202-016	.816 (20.73)
RG-161/U, 174, 188, 316	1.15 + .02f (GHz) 0-12.4 GHz	142-0203-011	142-0203-016	.816 (20.73)
RG-58/U, 141, 303, 55, 142, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-0207-011	142-0207-016	.895 (22.73)

Assembly instructions page 234.

SMA - 50 Ohm Connectors

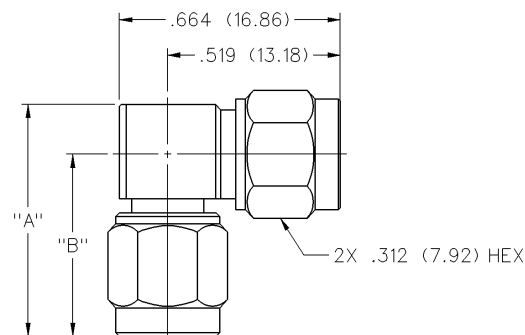
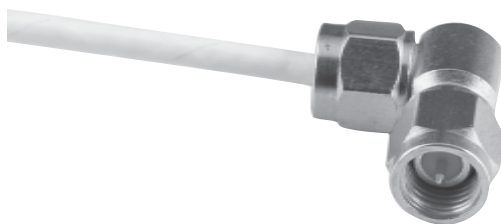
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

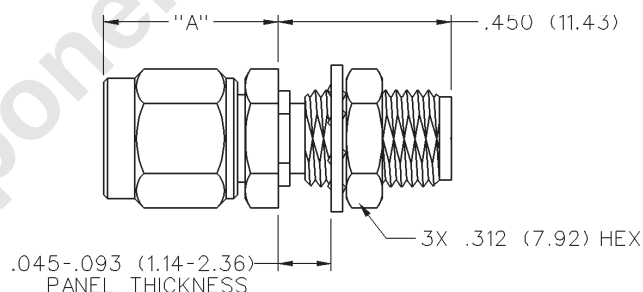
Right Angle Clamp Type Plug - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
RG-178/U, 196	1.20 + .03f (GHz) 0-12.4 GHz	142-0202-101	142-0202-106	.569 (14.45)	.428 (10.81)
RG-161/U, 174, 188, 316	1.15 + .03f (GHz) 0-12.4 GHz	142-0203-101	142-0203-106	.574 (14.58)	.433 (11.00)
RG-58/U, 141, 303, 55, 142, 223, 400	1.15 + .02f (GHz) 0-12.4 GHz	142-0207-101	142-0207-106	.686 (17.42)	.545 (13.84)

Assembly instructions page 235.

Straight Clamp Type Bulkhead Jack - Captivated Contact

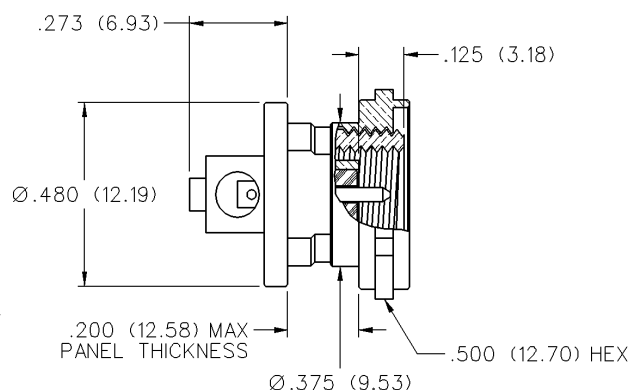


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-178/U, 196	1.20 + .025f (GHz) 0-12.4 GHz	142-0102-401	142-0102-406	.452 (11.48)
RG-161/U, 174, 188, 316	1.15 + .02f (GHz) 0-12.4 GHz	142-0103-401	142-0103-406	.487 (12.37)
RG-58/U, 141, 303, 55, 142, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-0107-401	142-0107-406	.531 (13.49)

Assembly instructions page 234.

Mounting hole layout figure 1 page 201.

Rear Mount Bulkhead Plug - Antenna Connector

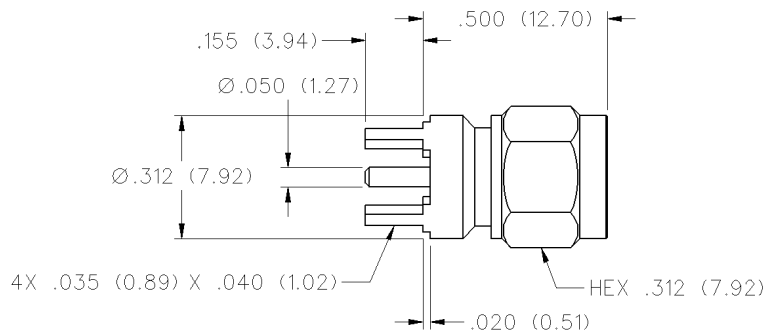


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED*
RG-178/U, .047 Semi-Rigid	VSWR: N/A 0-4 GHz	142-0801-421*

* With Nickel mounting nut. Assembly instructions page 227.

Mounting hole layout figure 8 page 201. Mates with SMA Jack Antenna Interface.

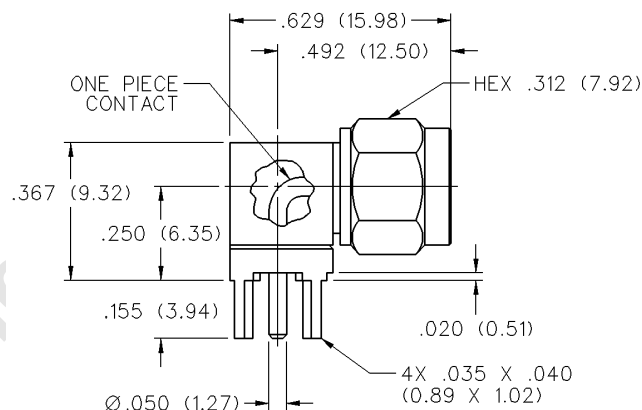
Straight Plug Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0801-201	142-0801-206

Mounting hole layout figure 2 page 201.

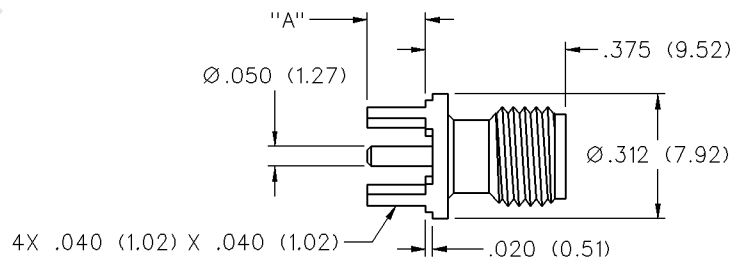
Right Angle Plug Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0801-301	142-0801-306

Mounting hole layout figure 2 page 201.

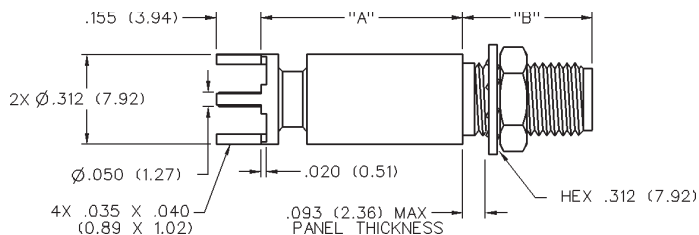
Straight Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	IR COMPATIBLE	"A"
0-18 GHz	142-0701-201	142-0701-206		.155 (3.94)
	142-0701-231	142-0701-236	142-0701-235*	.110 (2.79)

* Tin/Lead solder dipped legs for IR Reflow Compatibility.
Mounting hole layout figure 2 page 201.

Straight Bulkhead Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
0-18 GHz	142-0701-421	142-0701-426	.700 (17.78)	.450 (11.43)
0-18 GHz	142-0701-491	142-0701-496	.065 (1.65)	.755 (19.18)



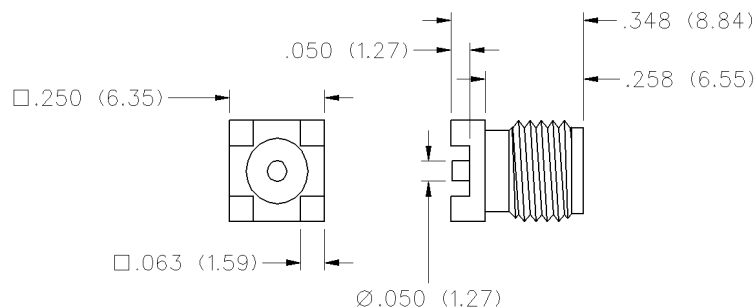
Mounting hole layout figure 2 page 201.

Straight Jack Receptacle - Surface Mount



FREQ. RANGE	GOLD PLATED	PACKAGING
0-18 GHz	142-0711-201	Stock
	142-0711-202	Tape and Reel 500 pcs/reel

Recommended Land Pattern figure 9 page 201.

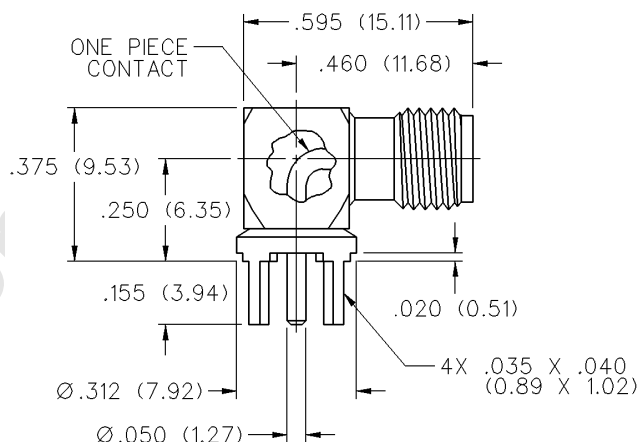


Right Angle Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-301	142-0701-306

Mounting hole layout figure 2 page 201.

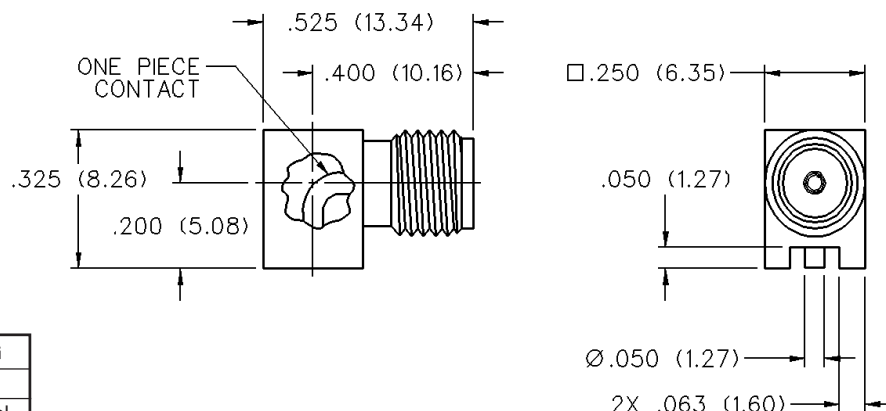


Right Angle Jack Receptacle - Surface Mount



FREQ. RANGE	GOLD PLATED	PACKAGING
0-18 GHz	142-0711-301	Stock
	142-0711-302	Tape and Reel 425 pcs/reel

Recommended Land Pattern figure 9 page 201.

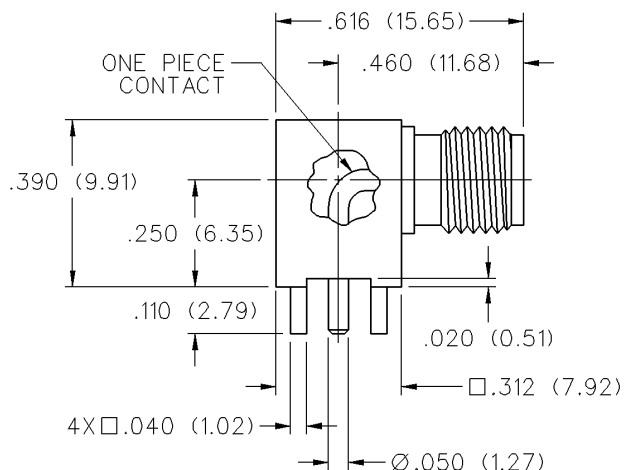


Right Angle Jack Receptacle - Moisture Seal*

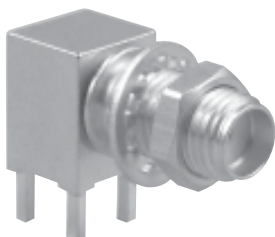


FREQ. RANGE	NICKEL BODY, GOLD INTERFACE IR COMPATIBLE*
0-18 GHz	142-0701-335*

* Tin/Lead solder dipped legs and Moisture Sealed for IR Reflow Compatibility.
Mounting hole layout figure 2 page 201.

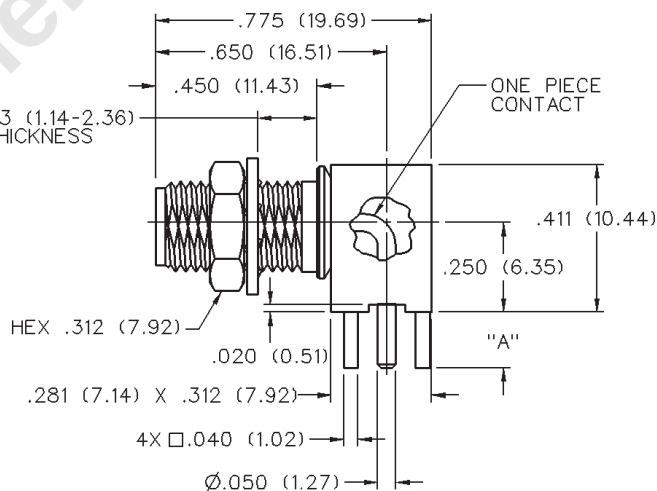


Right Angle Bulkhead Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
0-18 GHz	142-0701-501	142-0701-506	.155 (3.94)
	142-0701-551	142-0701-556	.110 (2.79)

Mounting hole layout figures 1 and 2 page 201.



SMA - 50 Ohm Connectors

End Launch Connectors - A Johnson Original

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

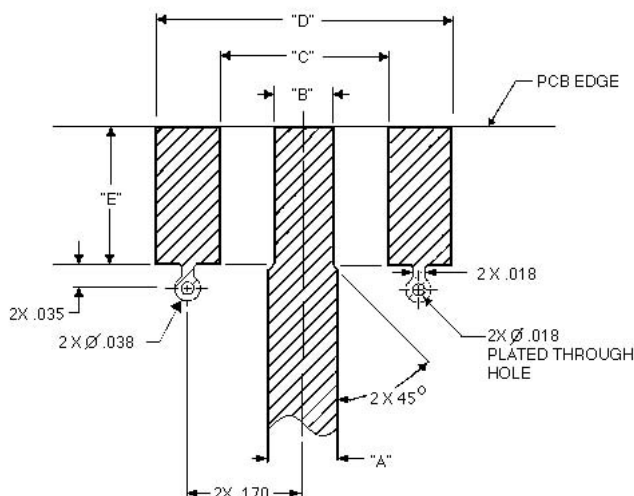
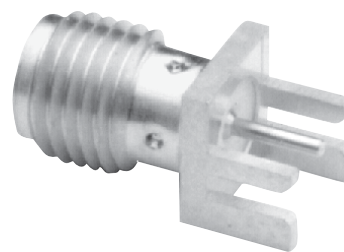
onlinecomponents.com

EMERSON
Network Power

The **End Launch** connector is attached to the circuit board by inserting the board edge between the legs and soldering the legs and center conductor to pads on the board. For optimum high frequency performance, the connector to circuit board transition must be adjusted for low VSWR. To compensate for the transition from coax to microstrip, trace widths "A" and "B" must be adjusted based on circuit board thickness. When properly adjusted, this technique yields a low VSWR over a wide bandwidth.

The tabulated dimensions "A", "B", "C", "D", and "E" were determined experimentally to achieve low VSWR (typically less than 1.5 up to 18 GHz). The circuit board used for these tests was double-sided FR 4 with 1 oz. copper on

both sides. The copper was left on the bottom of the board to create a ground plane for the 50 Ohm microstrip structure. While not all inclusive, these dimensions are given as reference information for selected **SMA End Launch** connectors. Further adjustments may be necessary depending upon the application. All dimensions are in inches.



PART NO.	BASE WIDTH	BOARD THICK	"A"	"B"	"C"	"D"	"E"
142-0701-801/806	.375	.062	.103	.090	.250	.440	.200
142-0701-851/861	.375	.062	.103	.090	.250	.440	.200
142-0701-871/876	.375	.062	.103	.090	.250	.440	.200
142-0711-821/826	.250	.062	.103	.070	.170	.380	.165
142-0711-871/876	.375	.047	.083	.075	.250	.440	.200
142-0711-881/886	.375	.047	.083	.075	.250	.440	.200
142-0701-881/886	.375	.031	.050	.045	.250	.440	.200

Tabulated Dimensions "A", "B", "C" and "D" are symmetrical about the center line

Surface Mount Versions Available!

SMA End Launch Specifications

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-18 GHz

VSWR: Dependent upon application

Working Voltage (VRMS max.): 335 @ Sea Level, 85 @ 70K Feet

Dielectric Withstanding Voltage (VRMS min. at sea level): 1000

Corona Level (Volts min. at 70,000 feet): 250

Insulation Resistance: 5000 megohms min

Contact Resistance (milliohms max.): 3.0 Initial, 4.0 after environmental

RF High Potential Withstanding Voltage (VRMS min. tested at 4 and 7 MHz): 670

MECHANICAL RATINGS

Engagement Design: MIL-C-39012, Series SMA

Engagement/Disengagement Force: 2 inch-pounds max.

Mating Torque: 7 to 10 inch-pounds

Coupling Proof Torque: 15 inch-pounds min.

Coupling Nut Retention: 60 pounds min.

Contact Retention Force: 6 lbs min. axial force, 4 inch-ounce min. torque

Durability: 500 cycles min.

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: -65° to + 165° C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-303, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per

MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Contacts:

Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated

per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated

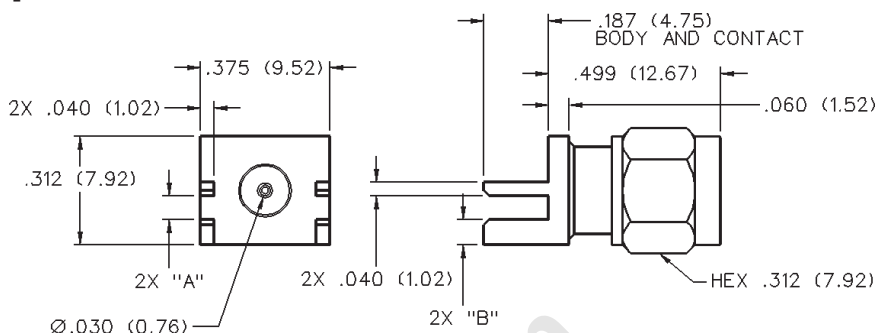
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

*All gold plated parts include a

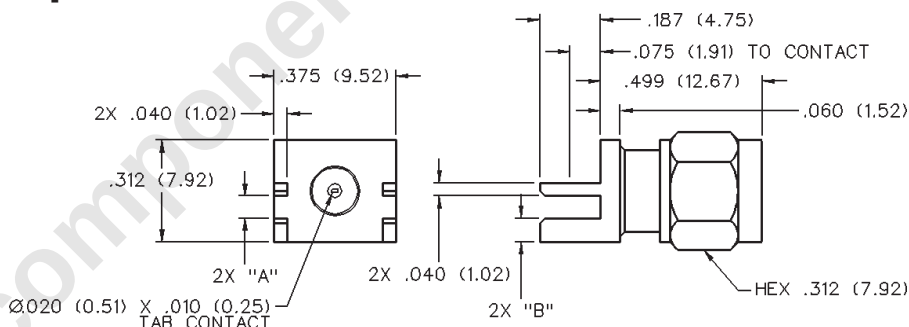
.00005" min. nickel underplate barrier layer.

End Launch Plug Receptacle - Round Contact



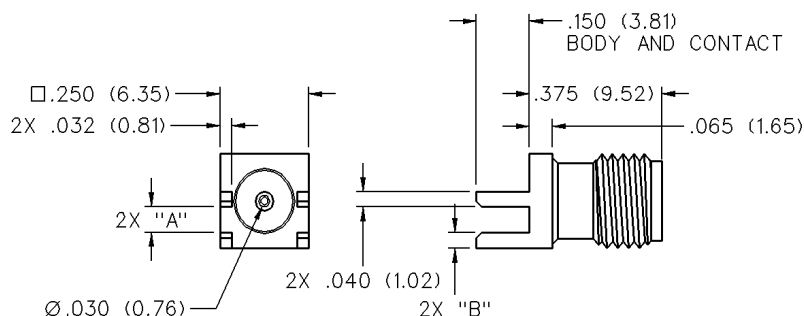
FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-0801-801	142-0801-806	.062 (1.57)	.068 (1.73)	.073 (1.85)
	142-0801-821	142-0801-826	.042 (1.07)	.048 (1.22)	.093 (2.36)

End Launch Plug Receptacle - Tab Contact



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-0801-811	142-0801-816	.062 (1.57)	.068 (1.73)	.083 (2.11)
	142-0801-831	142-0801-836	.042 (1.07)	.048 (1.22)	.103 (2.62)

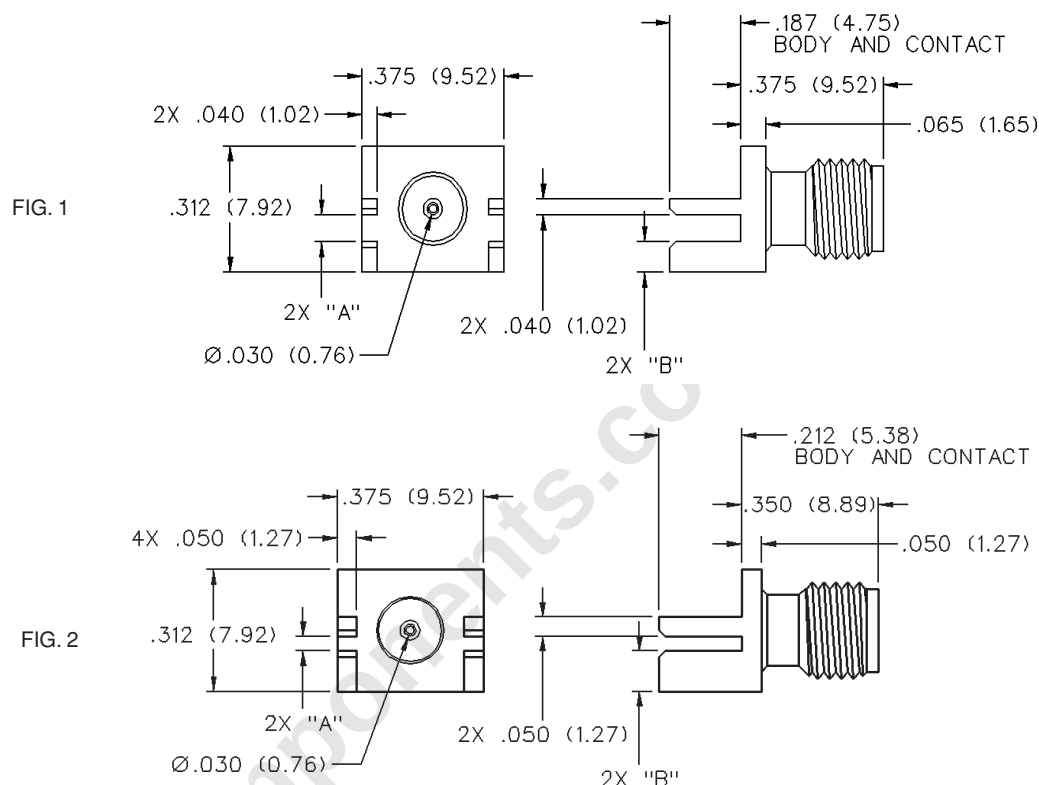
End Launch Jack Receptacle - Round Contact



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-0711-821	142-0711-826	.062 (1.57)	.068 (1.73)	.042 (1.07)
	142-0711-841	142-0711-846	.042 (1.07)	.048 (1.22)	.062 (1.57)
	142-0721-861	142-0721-866	.031 (0.79)	.037 (0.94)	.083 (2.11)

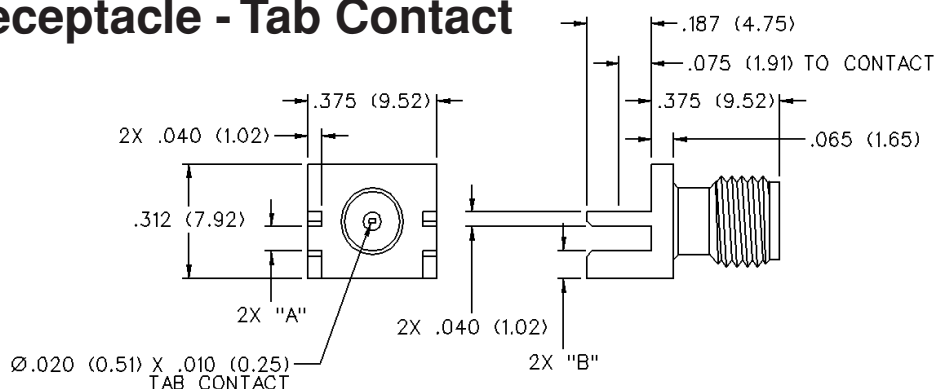
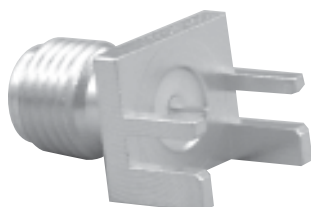
*Coupling proof torque
8 inch-pounds
maximum without
support wrench.*

End Launch Jack Receptacle - Round Contact



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"	FIGURE
0-18 GHz	142-0701-801	142-0701-806	.062 (1.57)	.068 (1.73)	.073 (1.85)	1
	142-0701-831	142-0701-836	.042 (1.07)	.048 (1.22)	.093 (2.36)	1
	142-0701-881	142-0701-886	.031 (0.79)	.037 (0.94)	.104 (2.64)	2
	142-0711-871	142-0711-876	.047 (1.19)	.053 (1.35)	.088 (2.24)	1

End Launch Jack Receptacle - Tab Contact



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-0701-851	142-0701-856	.062 (1.57)	.068 (1.73)	.083 (2.11)
	142-0701-841	142-0701-846	.042 (1.07)	.048 (1.22)	.103 (2.62)
	142-0711-881	142-0711-886	.047 (1.19)	.053 (1.35)	.098 (2.24)

End Launch Bulkhead Jack Receptacle - Round Contact

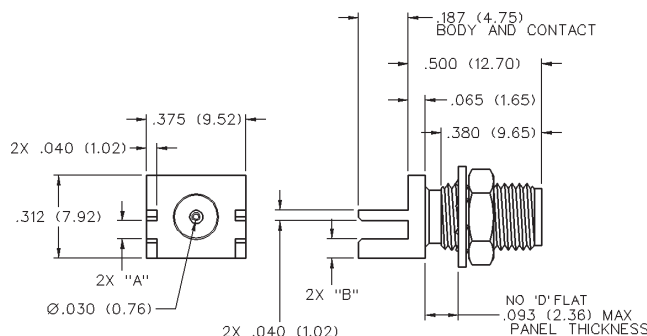
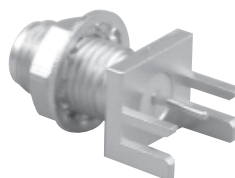


FIG. 1

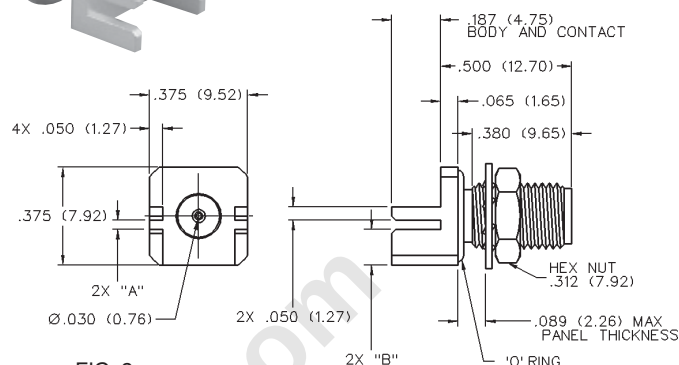
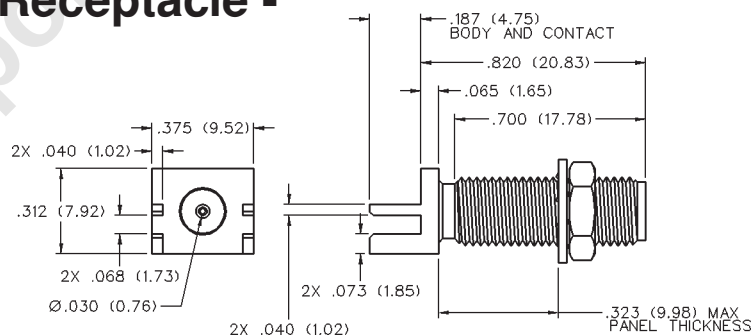
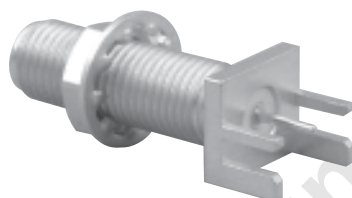


FIG. 2

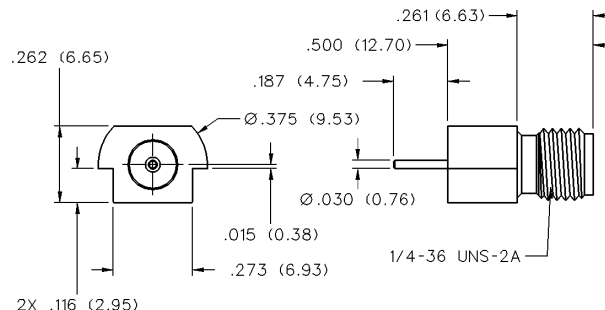
FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"	"O" RING	FIG.
0-18 GHz	142-0701-871	142-0701-876	.062 (1.57)	.068 (1.73)	.073 (1.85)	No	1
	142-0721-871	142-0721-876	.062 (1.57)	.068 (1.73)	.073 (1.85)	No	1
	142-0721-841	142-0721-846	.069 (1.75)	.075 (1.91)	.066 (1.68)	No	1
	142-0731-861	142-0731-866	.031 (0.79)	.037 (0.94)	.135 (3.43)	Yes	2

End Launch Bulkhead Jack Receptacle - Round Contact



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
0-18 GHz	142-0711-811	142-0711-816	.062 (1.57)

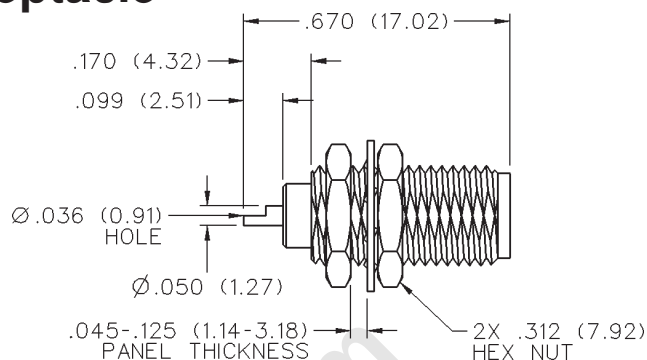
End Launch Jack Receptacle - Surface Mount



FREQ. RANGE	GOLD PLATED	PACKAGING
0-18 GHz	142-0721-881	Stock
	142-0721-882	Tape and Reel 475 pcs/reel

Recommended land pattern figure 35 page 204.

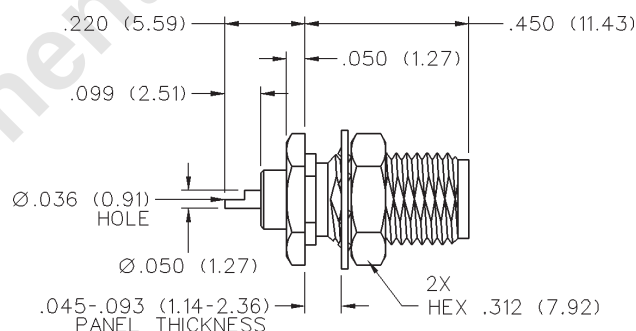
Front Mount Bulkhead Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-411	142-0701-416

Mounting hole layout figure 1 page 201.

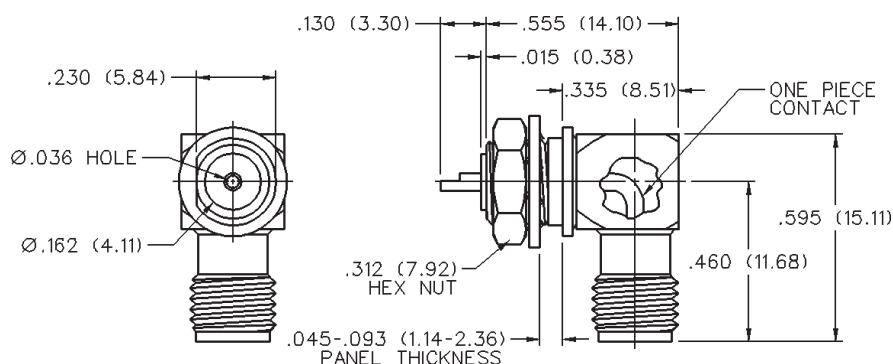
Rear Mount Bulkhead Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-401	142-0701-406

Mounting hole layout figure 1 page 201.

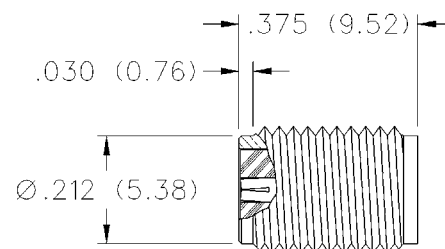
Right Angle Bulkhead Mount Jack Receptacle



FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-531	142-0701-536

Mounting hole layout figure 1 page 201.

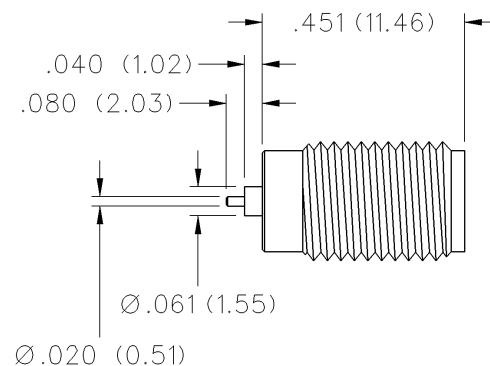
Jack Receptacle - Thread Mount Field Replaceable



GOLD PLATED	NICKEL PLATED	ACCEPTS PIN SIZE
142-1731-001	142-1731-006	.020 (0.51)
142-1731-011	142-1731-016	.036 (0.91)

Mounting hole layout figure 21 page 203.

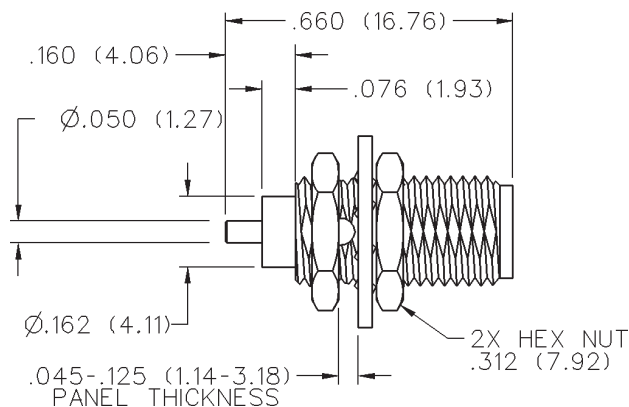
Jack Receptacle - Thread Mount Extended Dielectric (Non-hermetic)



GOLD PLATED	NICKEL PLATED
142-1731-021	142-1731-026

Mounting hole layout figure 20 page 202.

Jack Receptacle - Thread Mount with Hardware Extended Dielectric Bulkhead



GOLD PLATED	NICKEL PLATED
142-1731-031	142-1731-036

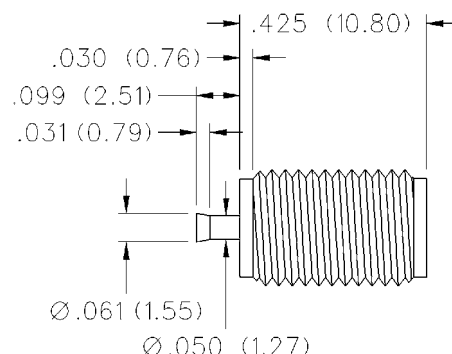
Mounting hole layout figure 1 page 201.

Jack Receptacle - Thread Mount Nail Head Contact



GOLD PLATED	NICKEL PLATED
142-1731-041	142-1731-046

Mounting hole layout figure 21 page 203.

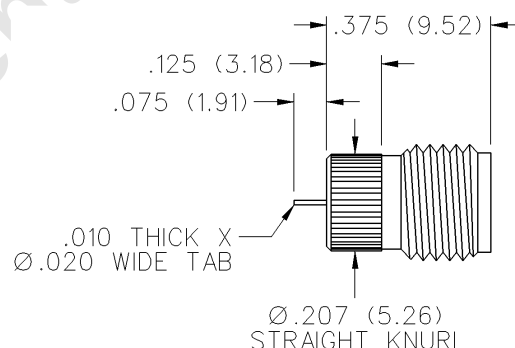


Jack Receptacle - Knurl Mount* Tab Contact



GOLD PLATED	NICKEL PLATED
142-1721-001	142-1721-006

* Not intended for use in materials harder than Rockwell B82
Assembly tool 140-0000-954 page 192.
Mounting hole layout figure 19 page 202.

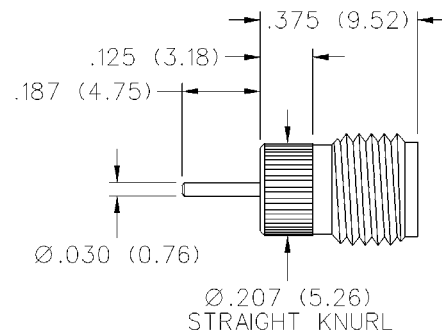


Jack Receptacle - Knurl Mount* Round Contact

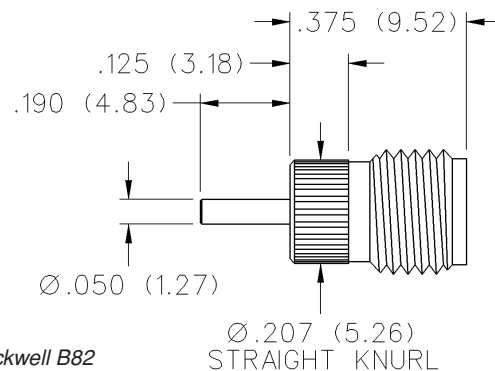


GOLD PLATED	NICKEL PLATED
142-1721-011	142-1721-016

* Not intended for use in materials harder than Rockwell B82
Assembly tool 140-0000-954 page 192.
Mounting hole layout figure 19 page 202.



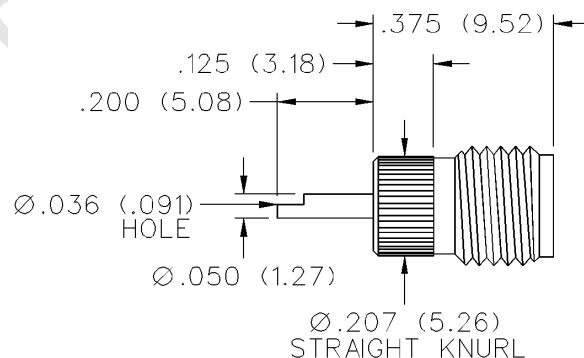
Jack Receptacle - Knurl Mount* Round Contact



GOLD PLATED	NICKEL PLATED
142-1721-021	142-1721-026

* Not intended for use in materials harder than Rockwell B82
Assembly tool 140-0000-954 page 192.
Mounting hole layout figure 19 page 202.

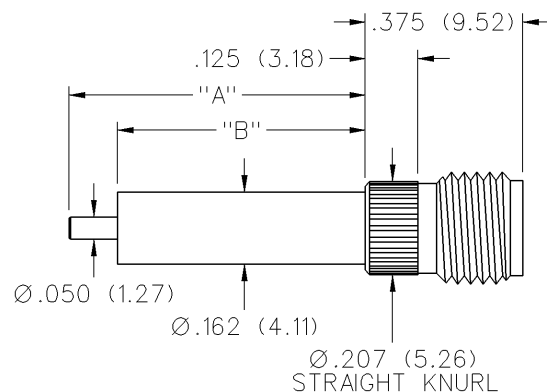
Jack Receptacle - Knurl Mount* Solder Cup Contact



GOLD PLATED	NICKEL PLATED
142-0701-481	142-0701-486

* Not intended for use in materials harder than Rockwell B82
Assembly tool 140-0000-954 page 192.
Mounting hole layout figure 19 page 202.

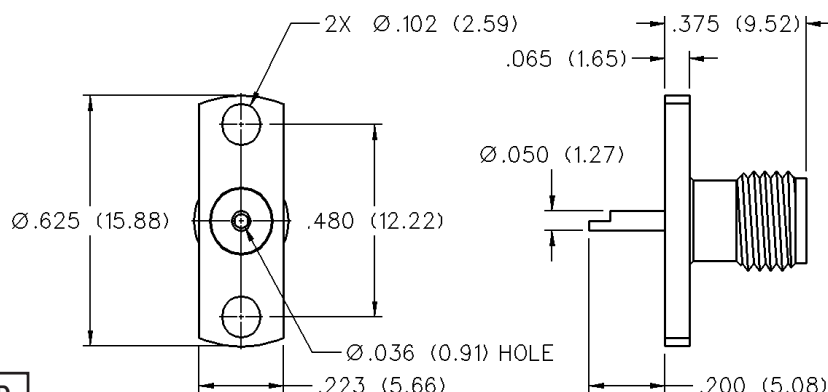
Jack Receptacle - Knurl Mount* Extended Dielectric



GOLD PLATED	NICKEL PLATED	"A"	"B"
142-1721-031	142-1721-036	.190 (4.83)	.095 (2.41)
142-1721-041	142-1721-046	.240 (6.10)	.180 (4.57)
142-1721-051	142-1721-056	.705 (17.91)	.590 (14.99)

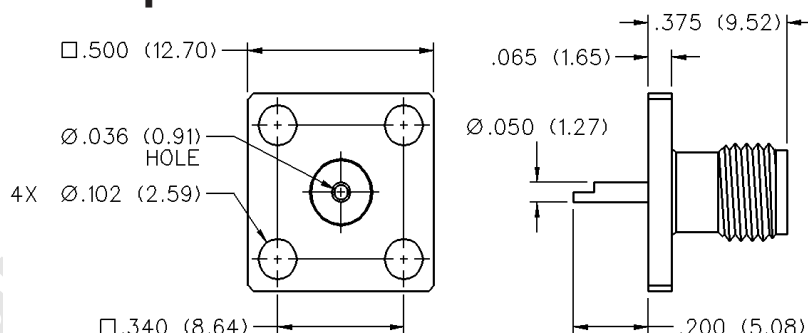
* Not intended for use in materials harder than Rockwell B82
Assembly tool 140-0000-954 page 192.
Mounting hole layout figure 19 page 202.

2-Hole Flange Mount Jack Receptacle - Flush Dielectric



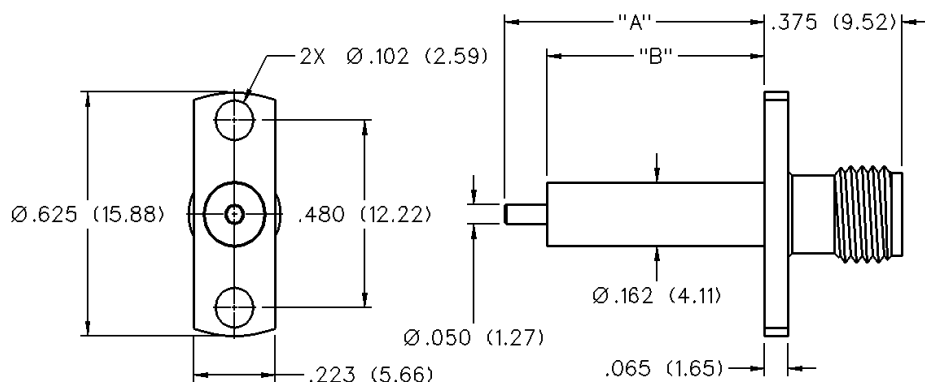
FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-621	142-0701-626

4-Hole Flange Mount Jack Receptacle - Flush Dielectric



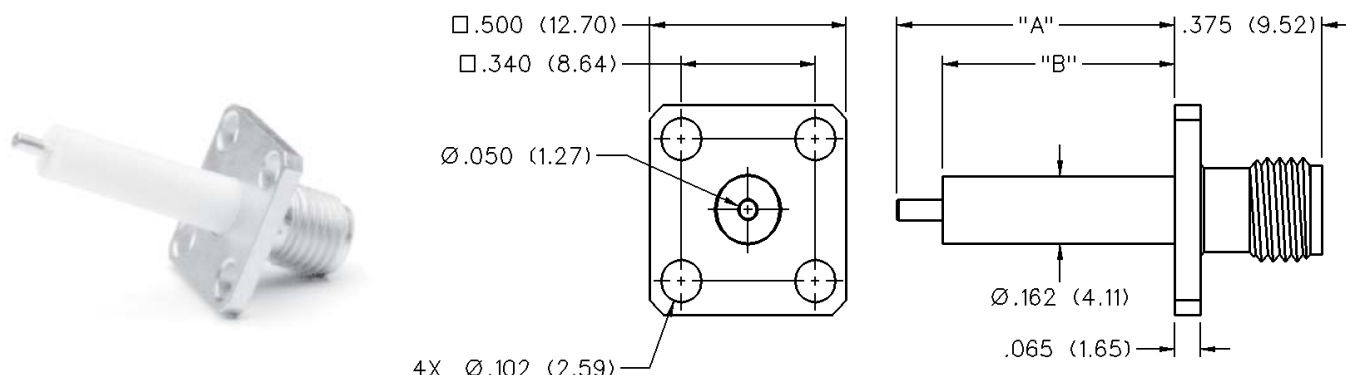
FREQ. RANGE	GOLD PLATED	NICKEL PLATED
0-18 GHz	142-0701-631	142-0701-636

2-Hole Flange Mount Jack Receptacle - Extended Dielectric



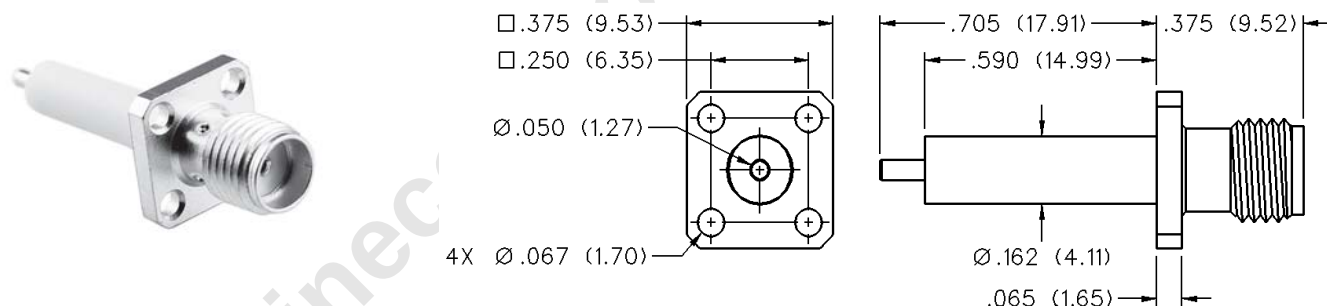
VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
VSWR: 1.15 + .02 f (GHz) 0-18 GHz	142-1701-131	142-1701-136	.705 (17.91)	.590 (14.99)
	142-1701-031	142-1701-036	.240 (6.10)	.180 (4.57)

4-Hole Flange Mount Jack Receptacle - Extended Dielectric



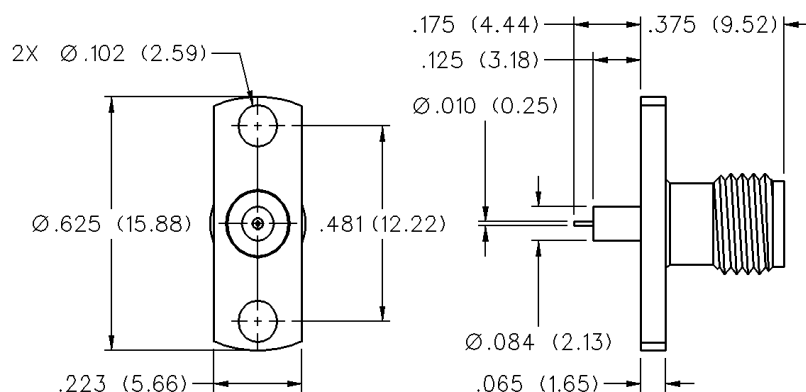
VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
VSWR: 1.15 + .02 f (GHz) 0-18 GHz	142-1701-121	142-1701-126	.705 (17.91)	.590 (14.99)
	142-1701-041	142-1701-046	.190 (4.83)	.095 (2.41)

4-Hole Flange Mount Jack Receptacle - Extended Dielectric



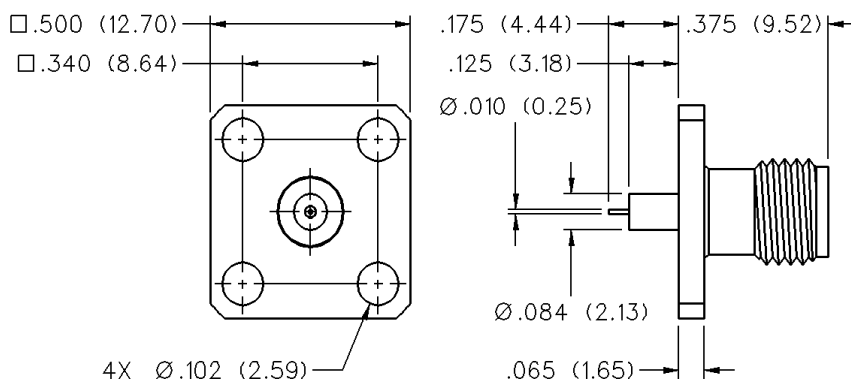
VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
VSWR: 1.15 + .02 f (GHz) 0-18 GHz	142-1701-011	142-1701-016

2-Hole Flange Mount Jack Receptacle - Extended Dielectric



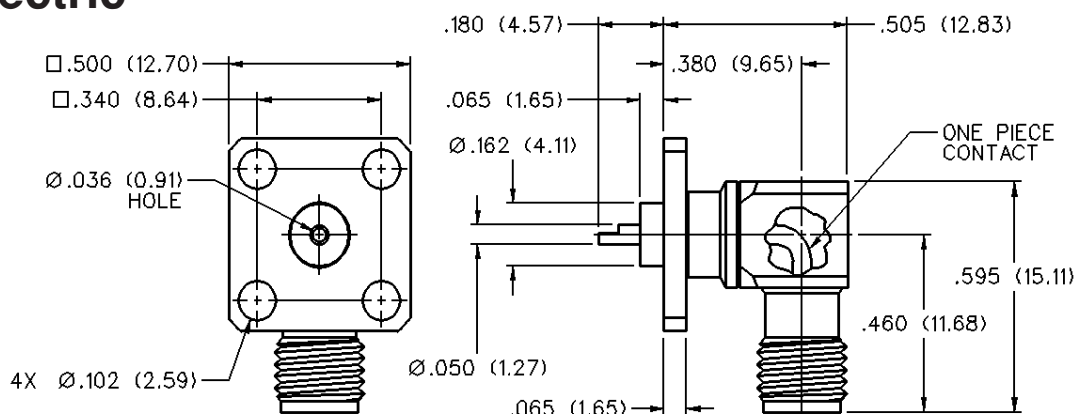
GOLD PLATED	NICKEL PLATED
142-1701-201	142-1701-206

4-Hole Flange Mount Jack Receptacle - Extended Dielectric



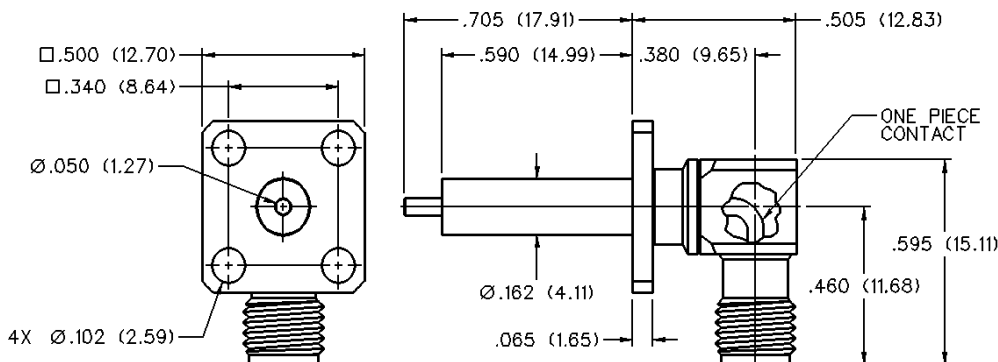
GOLD PLATED	NICKEL PLATED
142-1701-191	142-1701-196

4-Hole Right Angle Flange Mount Jack Receptacle - Extended Dielectric



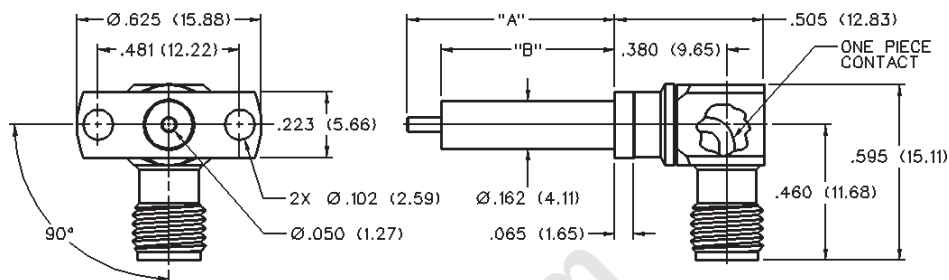
GOLD PLATED	NICKEL PLATED
142-0701-701	142-0701-706

4-Hole Right Angle Flange Mount Jack Receptacle - Extended Dielectric



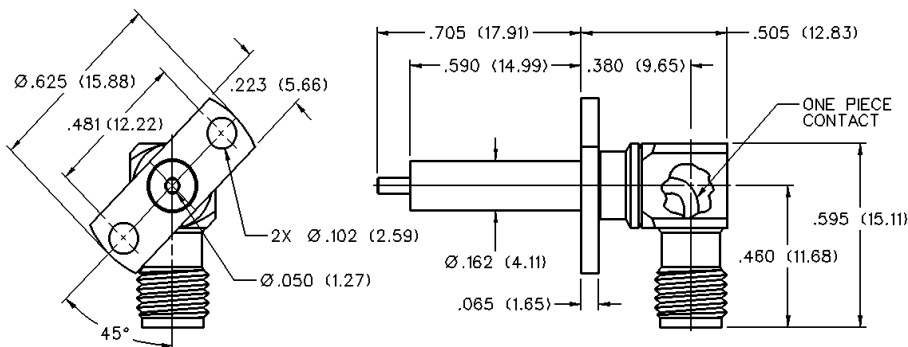
GOLD PLATED	NICKEL PLATED
142-1711-001	142-1711-006

2-Hole Right Angle Flange Mount Jack Receptacle - Extended Dielectric 90° Orientation



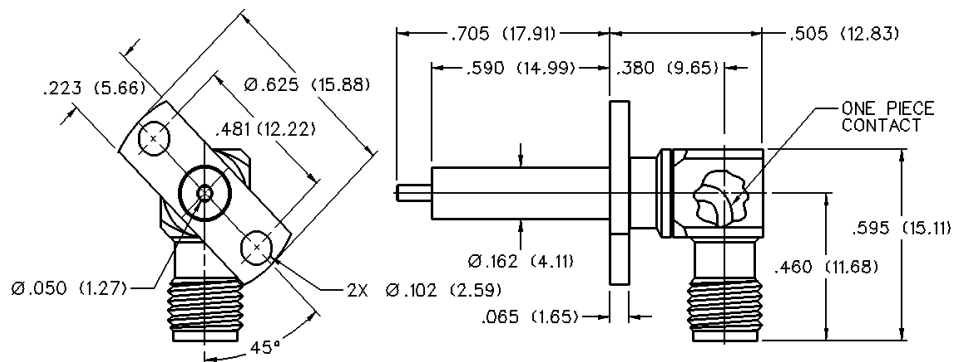
GOLD PLATED	NICKEL PLATED	"A"	"B"
142-1711-011	142-1711-016	.705	.590
142-1711-061	142-1711-066	.195	.130

2-Hole Right Angle Flange Mount Jack Receptacle - Extended Dielectric +45° Orientation



GOLD PLATED	NICKEL PLATED
142-1711-021	142-1711-026

2-Hole Right Angle Flange Mount Jack Receptacle - Extended Dielectric -45° Orientation



GOLD PLATED	NICKEL PLATED
142-1711-031	142-1711-036

SMA - 50 Ohm Connectors

Field Replaceable - Application Notes

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

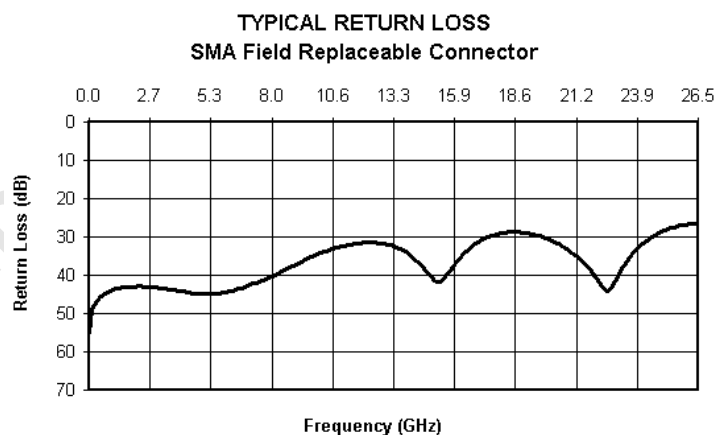
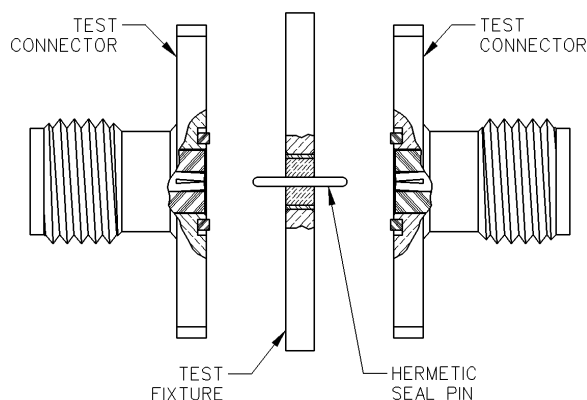
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

The field replaceable style of connector is known by many names in the industry, such as MIC launcher, hermetic seal launcher, spark plug launcher, etc. Some types, such as those known as “spark plugs,” have the hermetic seal incorporated into the connector. These types require special welding to install and can not be replaced without destroying the hermeticity of the circuit housing. True field replaceable connectors, such as the Johnson line, are easy to install and replace. Because the hermetic seal is not incorporated into the connector design, the connector can be removed and replaced without destroying the hermetic seal or the hermeticity of the circuit housing.

All of the above-mentioned connector types perform the same basic function—creating a transition from microstrip circuitry to a coaxial transmission line. Whenever possible, the hermetic seal pin diameter should be chosen as close as possible to the microstrip trace width. For optimum electrical performance, the transition from the hermetic seal to the microstrip trace must be properly compensated which involves adjusting the microstrip trace width to minimize any impedance discontinuities found in the transition area.

The plot shown below is representative of the typical return loss of a Johnson SMA field replaceable connector. To produce the data shown below, a test fixture is created using the appropriate Johnson hermetic seal. The fixture consists of a suitably thick spacer plate with the hermetic seal mounted flush to both surfaces. Two connectors are mounted back to back around the fixture and the VSWR of this test assembly is measured. The return loss data shown is equivalent to the square root of the measured VSWR of the test assembly. Since the connectors tested are of identical design, it can be stated with fair accuracy that the data shown represents the response of a single field replaceable connector and its transition to the hermetic seal.

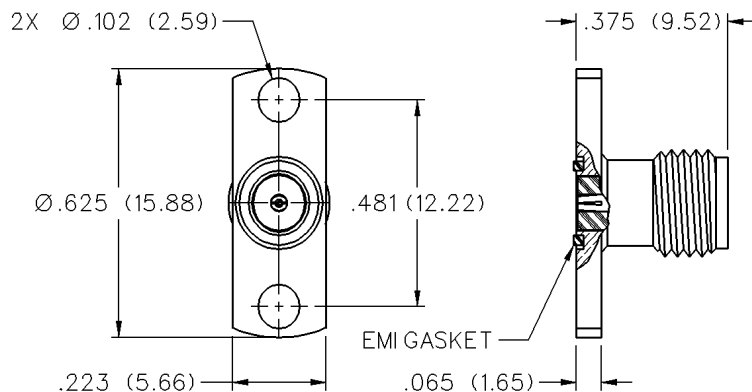


Although we do not publish a VSWR specification for field replaceable connectors, typical connector VSWR can be expected to be better than $1.1 + .01f$ (f in GHz). A VSWR specification is not stated because an industry standard method for testing field replaceable connectors does not exist. The actual performance of the connector is dependent upon the application for the following reasons:

1. The choice of hermetic seal to be used by the customer is not specified by the connector manufacturer. Hermetic seals produced by different manufacturers will not have the same electrical characteristics. For optimum electrical performance, we recommend the use of our standard 142-1000-001, 002, 003 and 004 hermetic seals for pin diameters of .012 (0.30), .015 (0.38), .018 (0.46) and .020 (0.51). Custom hermetic seal configurations can be quoted.
2. It is recommended that the hermetic seal be mounted flush with the circuit housing. Tolerance variations between the hermetic seal and machined housing do not always guarantee an optimum transition to the connector. Some manufacturers recommend an additional counterbore in the circuit housing to accommodate a solder washer during installation of the seal. We do not recommend this type of installation because, if the counterbore is not completely filled with solder, electrical discontinuities may be created.
3. As stated above, the transition between the hermetic seal pin and the microstrip trace will affect electrical performance. Several different methods of hermetic seal mounting and seal pin to microstrip trace attachment are used in the industry. We cannot recommend one method over the other as this is dependent upon the customer's application.

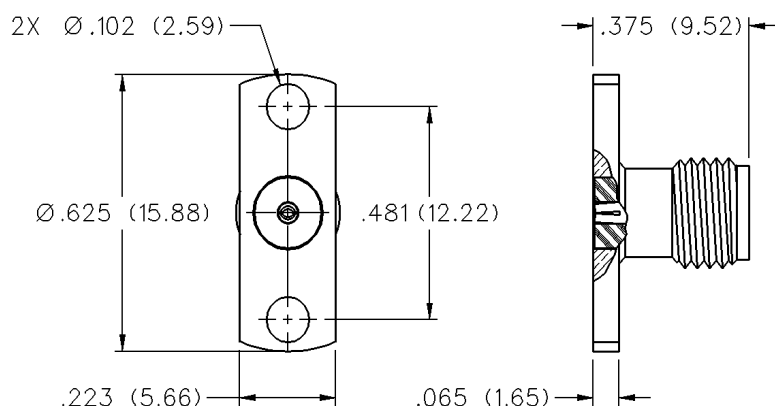
As always, quotes for non-standard field replaceable connectors and/or hermetic seals are welcome.

2-Hole Flange Mount Jack Receptacle - with EMI Gasket



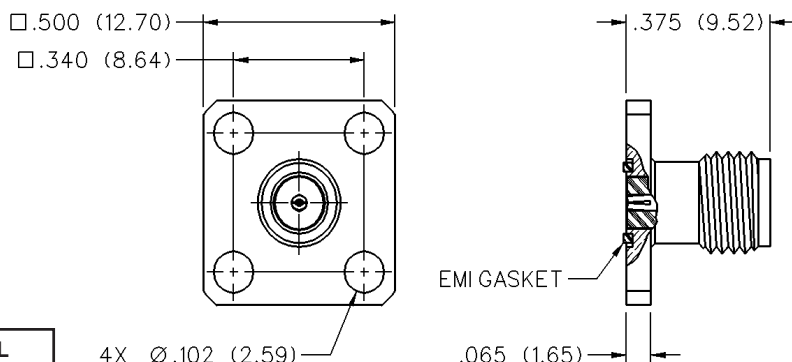
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.012 (0.30)	0-26.5 GHz	142-1701-601	142-1701-606
.015 (0.38)	0-26.5 GHz	142-1701-611	142-1701-616
.018 (0.46)	0-26.5 GHz	142-1701-621	142-1701-626

2-Hole Flange Mount Jack Receptacle - without EMI Gasket



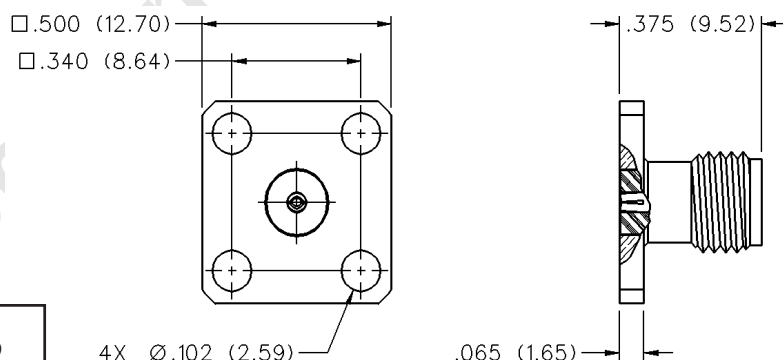
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1701-631	142-1701-636
.036 (0.91)	0-26.5 GHz	142-1701-641	142-1701-646

4-Hole Flange Mount Jack Receptacle - with EMI Gasket



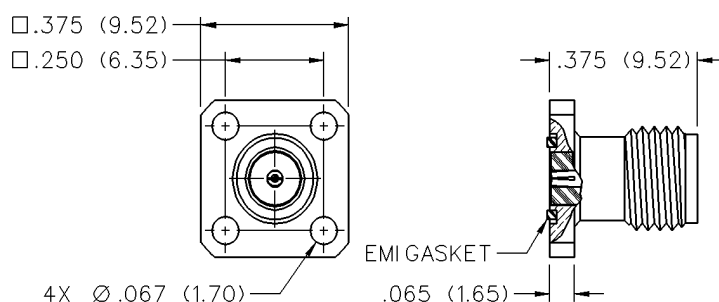
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.012 (0.30)	0-26.5 GHz	142-1701-501	142-1701-506
.015 (0.38)	0-26.5 GHz	142-1701-511	142-1701-516
.018 (0.46)	0-26.5 GHz	142-1701-521	142-1701-526

4-Hole Flange Mount Jack Receptacle - without EMI Gasket



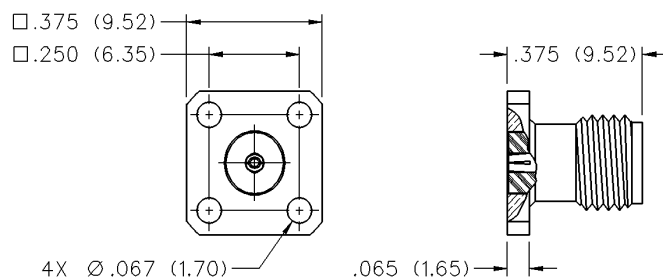
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1701-531	142-1701-536
.036 (0.91)	0-26.5 GHz	142-1701-541	142-1701-546

4-Hole Flange Mount Jack Receptacle - with EMI Gasket



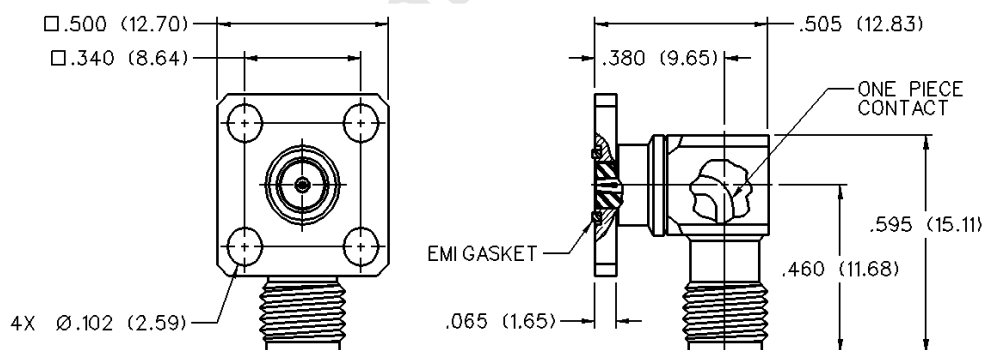
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.012 (0.30)	0-26.5 GHz	142-1701-551	142-1701-556
.015 (0.38)	0-26.5 GHz	142-1701-561	142-1701-566
.018 (0.46)	0-26.5 GHz	142-1701-571	142-1701-576

4-Hole Flange Mount Jack Receptacle - without EMI Gasket



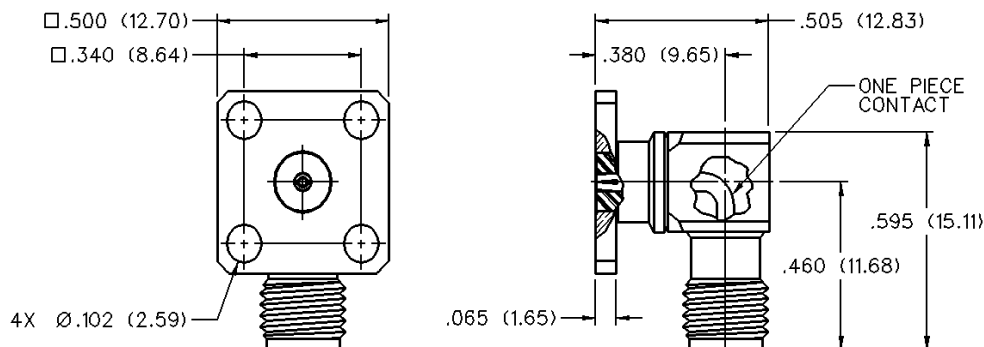
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1701-581	142-1701-586
.036 (0.91)	0-26.5 GHz	142-1701-591	142-1701-596

4-Hole Right Angle Flange Mount Jack Receptacle - with EMI Gasket



ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.015 (0.38)	0-26.5 GHz	142-1711-511	142-1711-516
.018 (0.46)	0-26.5 GHz	142-1711-521	142-1711-526

4-Hole Right Angle Flange Mount Jack Receptacle without EMI Gasket



ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1711-531	142-1711-536

SMA - 50 Ohm Connectors

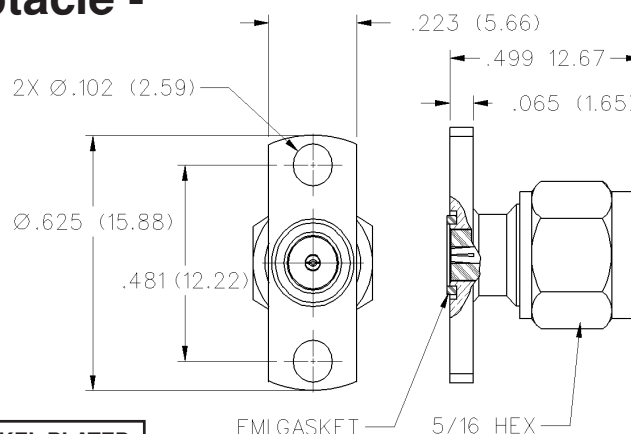
Field Replaceable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

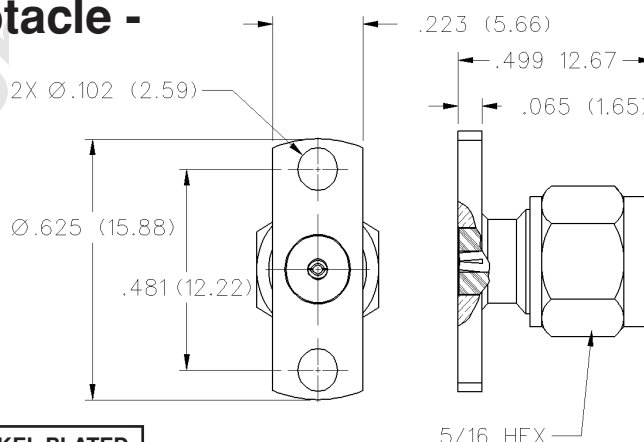


2-Hole Flange Mount Plug Receptacle - with EMI Gasket



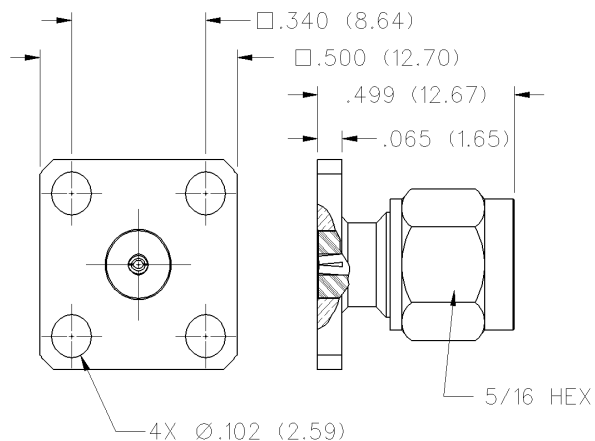
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.012 (0.30)	0-26.5 GHz	142-1801-601	142-1801-606
.015 (0.38)	0-26.5 GHz	142-1801-611	142-1801-616
.018 (0.46)	0-26.5 GHz	142-1801-621	142-1801-626

2-Hole Flange Mount Plug Receptacle - without EMI Gasket



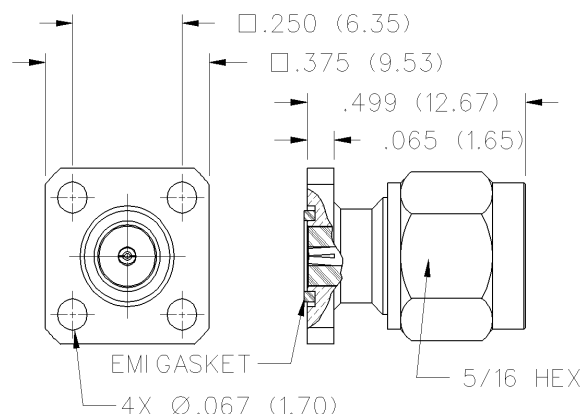
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1801-631	142-1801-636
.036 (0.91)	0-26.5 GHz	142-1801-641	142-1801-646

4-Hole Flange Mount Plug Receptacle - without EMI Gasket



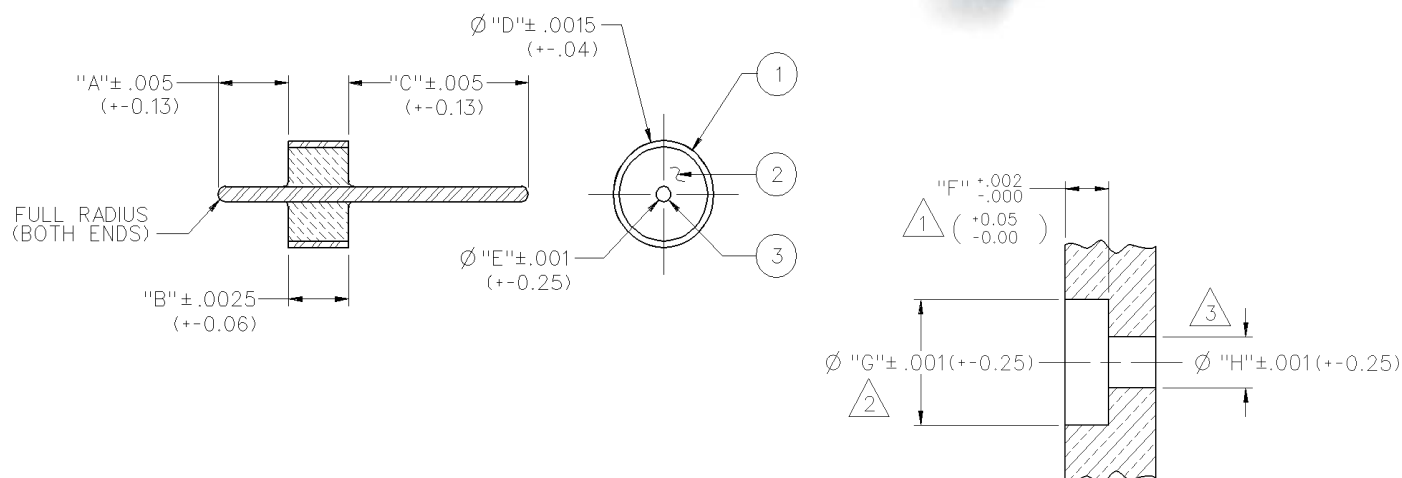
ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.020 (0.51)	0-26.5 GHz	142-1801-531	142-1801-536
.036 (0.91)	0-26.5 GHz	142-1801-541	142-1801-546

4-Hole Flange Mount Plug Receptacle - with EMI Gasket



ACCEPTS PIN SIZE	FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED
.012 (0.30)	0-26.5 GHz	142-1801-551	142-1801-556
.015 (0.38)	0-26.5 GHz	142-1801-561	142-1801-566
.018 (0.46)	0-26.5 GHz	142-1801-571	142-1801-576

Hermetic Seal Feedthrough



Recommended Mounting Hole Detail

PART NO.	ITEM 1 OUTER RING	ITEM 2 INSULATOR	ITEM 3 PIN	"A"	"B"	"C"	"D"	"E"
142-1000-001	Kovar Gold pl .00005 min over Nickel pl .000005 min.	Glass Corning 7052 or equivalent	Kovar Gold pl .00005 min over Nickel pl .000005 min	.070 (1.78)	.0625 (1.59)	.180 (4.57)	.0985 (2.50)	.012 (.30)
142-1000-002	Kovar Gold pl .00005 min over Nickel pl .000005 min.	Glass Corning 7070 or equivalent	Kovar Gold pl .00005 min over Nickel pl .000005 min	.072 (1.83)	.0625 (1.59)	.180 (4.57)	.0985 (2.50)	.015 (.38)
142-1000-003	Kovar Gold pl .00005 min over Nickel pl .000005 min.	Glass Corning 7070 or equivalent	Kovar Gold pl .00005 min over Nickel pl .000005 min	.072 (1.83)	.0600 (1.52)	.180 (4.57)	.1100 (2.79)	.018 (.46)
142-1000-004	Kovar Gold pl .00005 min over Nickel pl .000005 min.	Glass Corning 7052 or equivalent	Kovar Gold pl .00005 min over Nickel pl .000005 min	.070 (1.78)	.0600 (1.52)	.203 (5.16)	.1580 (4.01)	.020 (.51)

Mounting Hole Dimensions

PART NO.	PIN DIAMETER	"F"	"G"	AIR "H"	TEFLON "H"
142-1000-001	.012 (0.30)	.063 (1.60)	.102 (2.59)	.028 (0.71)	.039 (0.99)
142-1000-002	.015 (0.38)	.063 (1.60)	.102 (2.59)	.035 (0.89)	.049 (1.24)
142-1000-003	.018 (0.46)	.060 (1.52)	.114 (2.90)	.042 (1.07)	.059 (1.50)
142-1000-004	.020 (0.51)	.060 (1.52)	.162 (4.11)	.046 (1.17)	.065 (1.65)

Notes:

1. The hermetic seal should be mounted as flush as possible with the housing. Excessive recession will create a high impedance air gap which degrades electrical performance.
2. The use of an additional counterbore to accommodate a solder ring for seal mounting is not recommended. A slight chamfer may be used if care is taken to completely fill the area with solder—**avoid air gaps**.
3. Dimensions shown are given to achieve 50 Ohms with either air or a teflon insulator. A teflon insulator may be helpful in supporting small pin diameters.

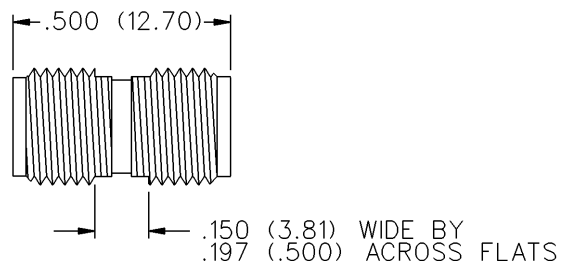
Electrical:

Impedance: 50 Ohms
Frequency Range: DC to 26.5 GHz
VSWR: Dependent upon application
Working Voltage: 250 VRMS max at sea level
Dielectric Withstanding Voltage: 500 VRMS min at sea level
Insulation Resistance: 5000 Megohm min
Insertion Loss: .015F dB max (F in GHz)

Environmental:

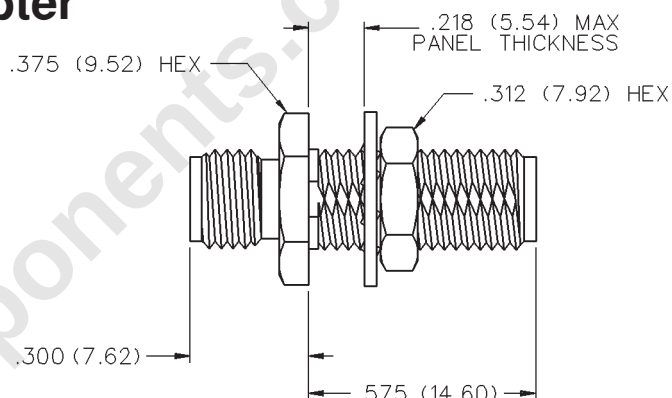
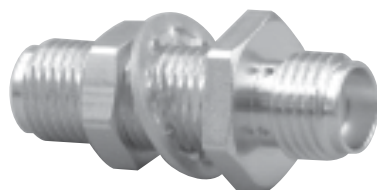
Hermeticity: 1x10⁻⁸ cc/sec at one atmosphere
Solderability: MIL-STD-202, Method 209
Operating Temperature: -55° C to +165° C

Jack to Jack Adapter



VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
1.05 + .005f (GHz) 0-18 GHz	142-0901-801	142-0901-806

Jack to Bulkhead Jack Adapter



VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
1.05 + .01f (GHz) 0-18 GHz	142-0901-401	142-0901-406

Mounting Hole layout figure 1 page 201.

SMA - 50 Ohm Connectors

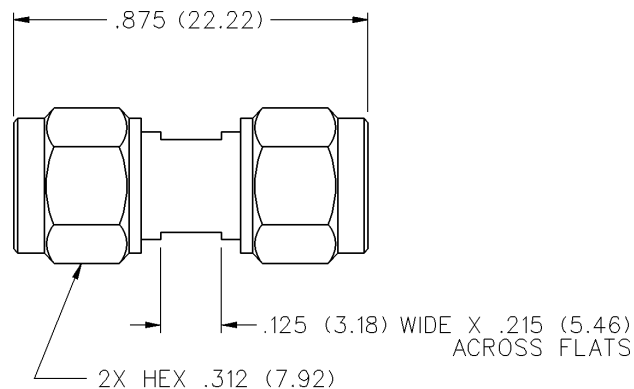
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

In-Series Adapters

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

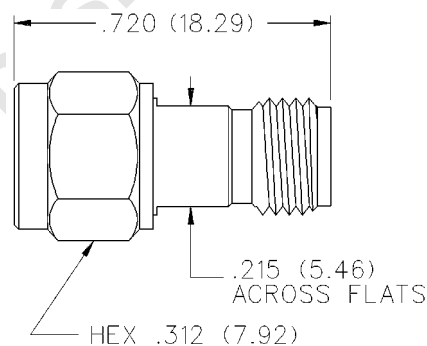


Plug to Plug Adapter



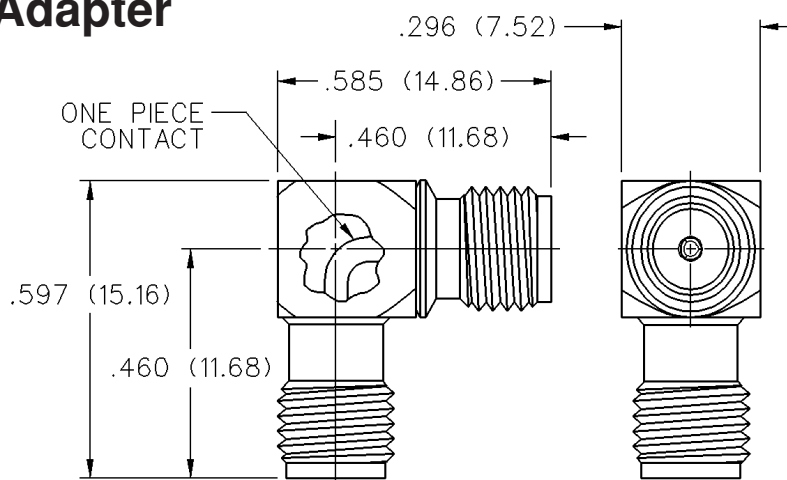
VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
1.05 + .01f (GHz) 0-18 GHz	142-0901-811	142-0901-816

Plug to Jack Adapter



VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED
1.05 + .005f (GHz) 0-18 GHz	142-0901-821	142-0901-826

Right Angle Jack to Jack Adapter

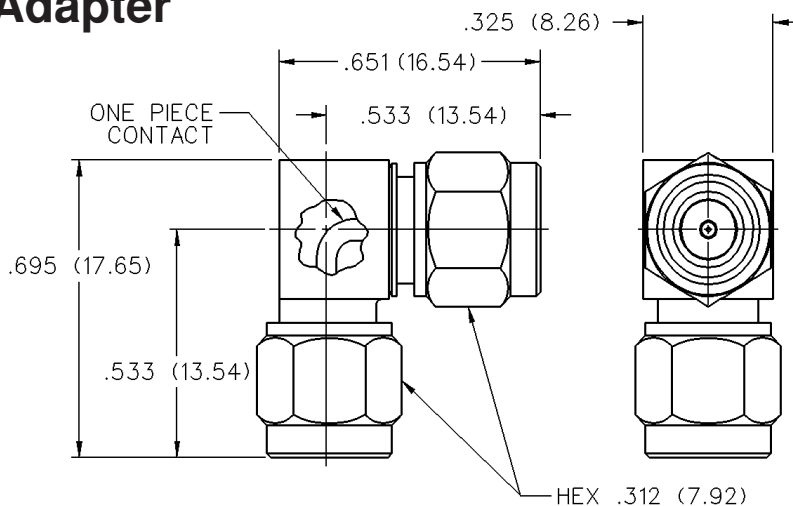


VSWR & FREQ. RANGE	GOLD PLATED
1.035 +.02f (GHz) 0-18 GHz	142-0901-921

Right Angle Plug to Plug Adapter



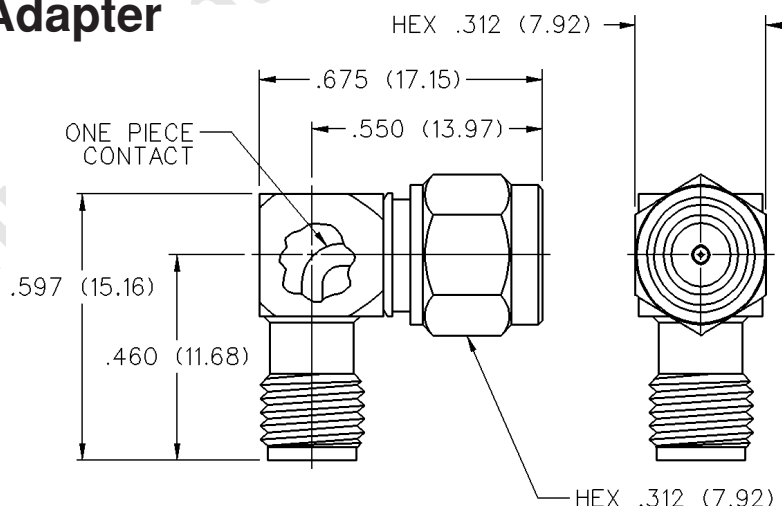
VSWR & FREQ. RANGE	GOLD PLATED
1.035 +.02f (GHz) 0-14 GHz	142-0901-931



Right Angle Jack to Plug Adapter



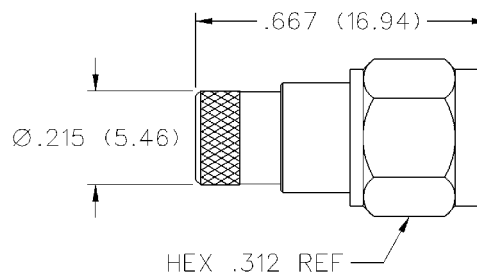
VSWR & FREQ. RANGE	GOLD PLATED
1.035 +.02f (GHz) 0-18 GHz	142-0901-941



Dummy Load Plug



FREQ. RANGE	GOLD PLATED	NICKEL PLATED	RESISTANCE
0-2 GHz	142-0801-861	142-0801-866	50 Ohm



SMA Reverse Polarity - 50 Ohm

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range:

Flexible cable connectors	0-12.4 GHz
Uncabled receptacles	0-18.0 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-316, LMR-100 cable	1.15 + .02f	1.15 + .03f
RG-58, LMR-195 cable	1.17 + .025f	1.17 + .06f
RG-142 cable	1.17 + .02f	1.15 + .03f
LMR-200, LMR-240 cable	1.10 + .03f	1.10 + .06f
Uncabled receptacles	N/A	

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-316; LMR-100, 195, 200	250	65
RG-58, RG-142, LMR-240, uncabled receptacles	335	85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-316; LMR-100, 195, 200	750
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	1000

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-316, LMR-100, 195, 200	190
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	250

Insertion Loss: (dB maximum)

Straight flexible cable connectors	$.06\sqrt{f}$ (GHz), tested at 6 GHz
Right angle flexible cable connectors	$.015\sqrt{f}$ (GHz), tested at 6 GHz
Low loss flexible straight cable connectors	$.06\sqrt{f}$ (GHz), tested at 1 GHz
Low loss flexible right angle cable connectors	$.015\sqrt{f}$ (GHz), tested at 1 GHz
Uncabled receptacles, field replaceable	N/A

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors and uncabled receptacles)	3.0*	4.0*
Center contact (right angle cabled connectors)	4.0	6.0
Outer contact (all connectors)	2.0	N/A
Braid to body (gold plated connectors)	0.5	N/A
Braid to body (nickel plated connectors)	5.0	N/A

RF Leakage: (dB minimum, tested at 2.5 GHz)

Flexible cable connectors	-60 dB
Uncabled receptacles and adapters	N/A

*All gold-plated parts include a .00005" min. nickel barrier layer.

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-316; LMR-100, 195, 200	500
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	670

MECHANICAL RATINGS

Engagement Design: MIL-C-39012, Series SMA

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Bulkhead Mounting Nut Torque: 15 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention:

- 6 lbs. minimum axial force (captivated contacts)
- 4 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-316, LMR-100	20	N/A
Connectors for LMR195, 200	30	N/A
Connectors for RG-58, LMR-240	40	N/A
Connectors for RG-142	45	N/A

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS (Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated

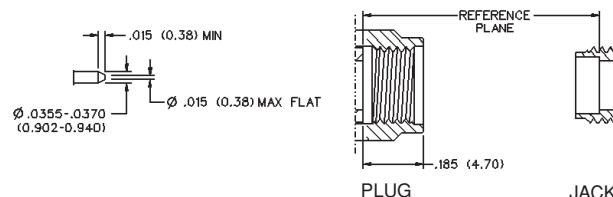
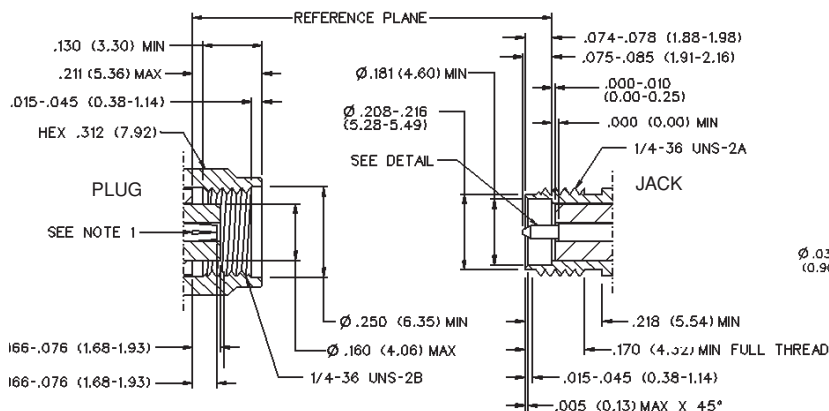
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or Tefzel per ASTM D 3159

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

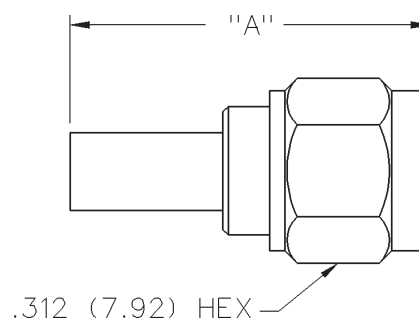
Mating Engagement for SMA Reverse Polarity Series



NOTES

- ID of contact to meet VSWR, contact resistance and insertion withdrawal forces when mated with dia .0355-.0370 male pin.

Straight Crimp Type Plug - Solder or Crimp Captivated Contact

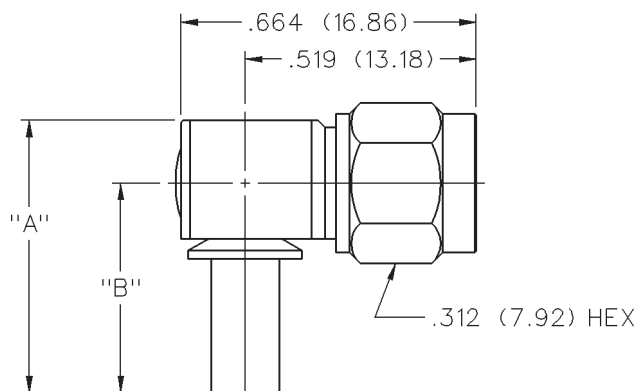
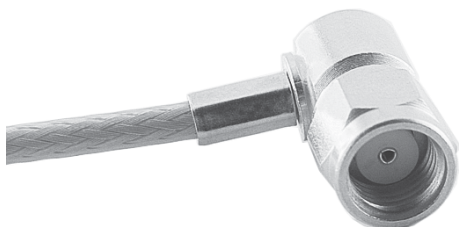


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-316/U, 188, 174, 161 LMR-100, HPF-100, RF-100	1.15 + .02f (GHz) 0-12.4 GHz	142-4403-001	142-4403-006	.706 (17.93)
RG-316 DS, 188 DS,	1.15 + .02f (GHz) 0-12.4 GHz	142-4404-001	142-4404-006	.706 (17.93)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.17 + .025f (GHz) 0-12.4 GHz	142-4407-001	142-4407-006	.706 (17.93)
RG-142/U, 55, 223, 400	1.17 + .02f (GHz) 0-12.4 GHz	142-4408-001	142-4408-006	.706 (17.93)
LMR-200, HPF-200, RF-200	1.10 + .03f (GHz) 0-12.4 GHz	142-4439-001	142-4439-006	.844 (21.44)
LMR-240, HPF-240, RF-240	1.10 + .03f (GHz) 0-12.4 GHz	142-4435-001	142-4435-006	.844 (21.44)

Assembly instructions: LMR 195, 200 and 240 page 230.

All other cables page 229. See page 190 for Cable Assembly Tools.

Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
RG-316/U, 188, 174, 161, LMR-100, HPF-100, RF-100	1.15 + .03f (GHz) 0-12.4 GHz	142-4403-101	142-4403-106	.611 (15.52)	.470 (11.94)
RG-316 DS, 188 DS	1.15 + .03f (GHz) 0-12.4 GHz	142-4404-101	142-4404-106	.611 (15.52)	.470 (11.94)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.17 + .06f (GHz) 0-12.4 GHz	142-4407-101	142-4407-106	.611 (15.52)	.470 (11.94)
RG-142/U, 55, 223, 400	1.15 + .03f (GHz) 0-12.4 GHz	142-4408-101	142-4408-106	.611 (15.52)	.470 (11.94)
LMR-200, HPF-200, RF-200	1.10 + .06f (GHz) 0-12.4 GHz	142-4439-101	142-4439-106	.611 (15.52)	.470 (11.94)
LMR-240, HPF-240, RF-240	1.10 + .06f (GHz) 0-12.4 GHz	142-4435-101	142-4435-106	.635 (16.13)	.490 (12.45)

Assembly instructions: LMR 195, 200 and 240 page 233.

All other cables page 232. See page 190 for Cable Assembly Tools.

SMA Reverse Polarity - 50 Ohm

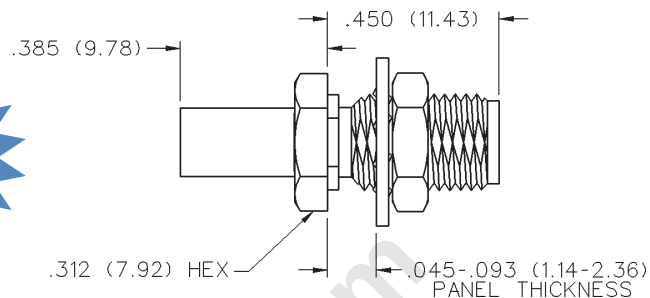
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



Straight Crimp Type Bulkhead Jack - Captivated Contact



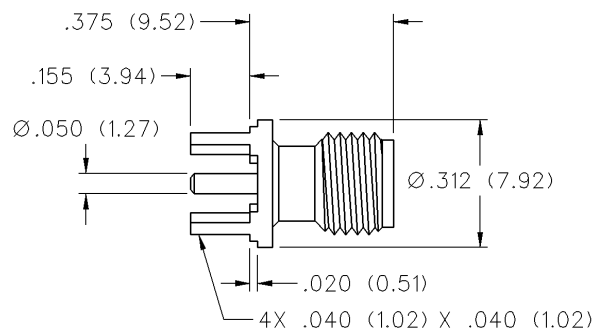
CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-316/U, 188, 174, 161	142-4303-401	142-4303-406
RG-316 DS, 188 DS	142-4304-401	142-4304-406
RG-58/U, 141, 303	142-4307-401	142-4307-406
RG-142/U, 55, 223, 400	142-4308-401	142-4308-406

Assembly instructions page 229.
See page 190 for Cable Assembly Tools.
Mounting hole layout figure 1 page 201.

Straight Jack Receptacle



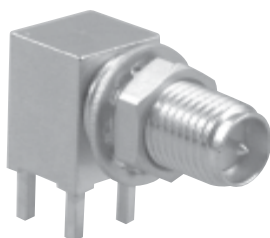
Reverse
Polarity



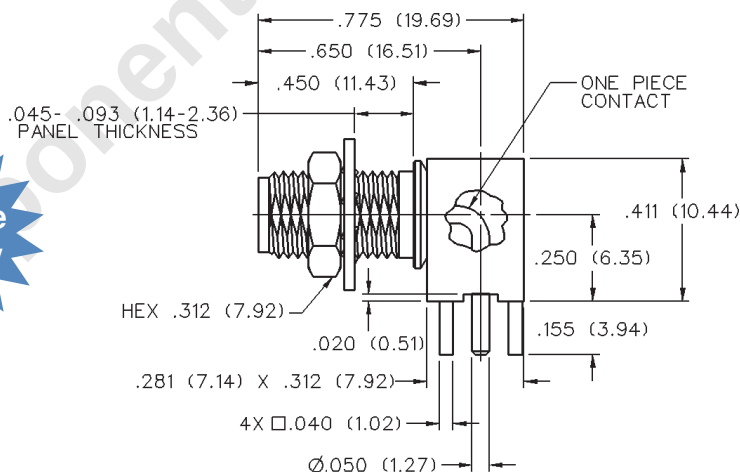
GOLD PLATED	NICKEL PLATED
142-4701-201	142-4701-206

Mounting hole layout figure 2 page 201.

Right Angle Bulkhead Jack Receptacle



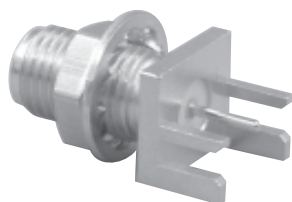
Reverse
Polarity



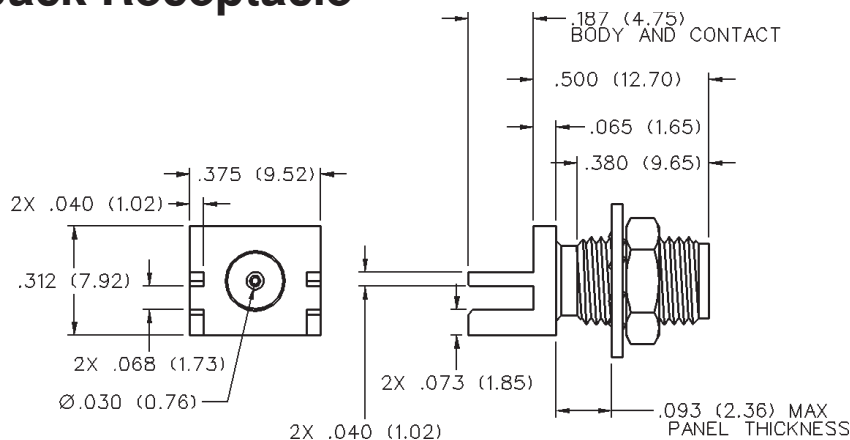
GOLD PLATED	NICKEL PLATED
142-4701-501	142-4701-506

Mounting hole layout figures 1 and 2 page 201.

End Launch Bulkhead Jack Receptacle



Reverse
Polarity



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
142-4701-801	142-4701-806	.062 (1.57)

SMA Reverse Thread - 50 Ohm

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range:

Flexible cable connectors 0-12.4 GHz
Uncabled receptacles 0-18.0 GHz

VSWR: (f = GHz)

	Straight Cabled Connectors	Right Angle Cabled Connectors
RG-316, LMR-100 cable	1.15 + .02f	1.15 + .03f
RG-58, LMR-195 cable	1.15 + .01f	1.15 + .02f
RG-142 cable	1.15 + .01f	1.15 + .02f
LMR-200, LMR-240 cable	1.10 + .03f	1.10 + .06f
Uncabled receptacles	N/A	

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-316; LMR-100, 195, 200	250	65
RG-58, RG-142, LMR-240, uncabled receptacles	335	8

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-316; LMR-100, 195, 200	750
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	1000

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-316, LMR-100, 195, 200	190
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	250

Insertion Loss: (dB maximum)

Straight flexible cable connectors	$0.06\sqrt{f}$ (GHz), tested at 6 GHz
Right angle flexible cable connectors	$0.15\sqrt{f}$ (GHz), tested at 6 GHz
Low loss flexible straight cable connectors	$0.06\sqrt{f}$ (GHz), tested at 1 GHz
Low loss flexible right angle cable connectors	$0.15\sqrt{f}$ (GHz), tested at 1 GHz
Uncabled receptacles, field replaceable	N/A

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors and uncabled receptacles)	3.0*	4.0*
Center contact (right angle cabled connectors)	4.0	6.0
Outer contact (all connectors)	2.0	N/A
Braid to body (gold plated connectors)	0.5	N/A
Braid to body (nickel plated connectors)	5.0	N/A
RF Leakage: (dB minimum, tested at 2.5 GHz)		
Flexible cable connectors		-60 dB
Uncabled receptacles and adapters		N/A

*All gold-plated parts include a .00005" min. nickel barrier layer.

[†]Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-316; LMR-100, 195, 200	500
Connectors for RG-58, RG-142, LMR-240, uncabled receptacles	670

MECHANICAL RATINGS

Engagement Design: mil-c-39012, Series SMA

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Bulkhead Mounting Nut Torque: 15 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention:

6 lbs. minimum axial force (captivated contacts)

4 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:

	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-316, LMR-100	20	N/A
Connectors for LMR-195, 200	30	N/A
Connectors for RG-58; LMR-240	40	N/A
Connectors for RG-142	45	N/A

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated* per MIL-G-45204

.00001" min. or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533. Unplated

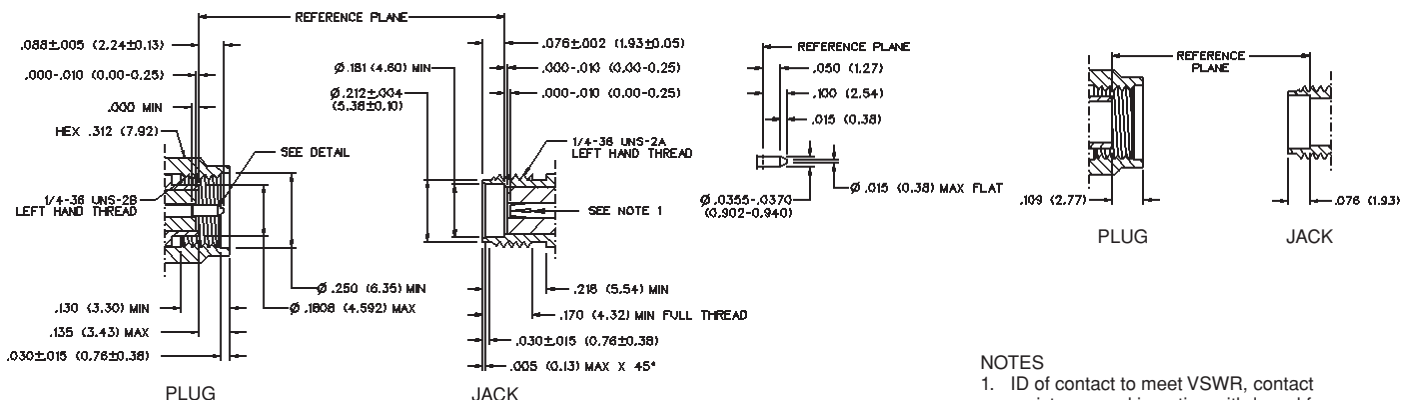
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 or Tefzel per ASTM D 3159

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799 or brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass per QQ-B-626 or QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

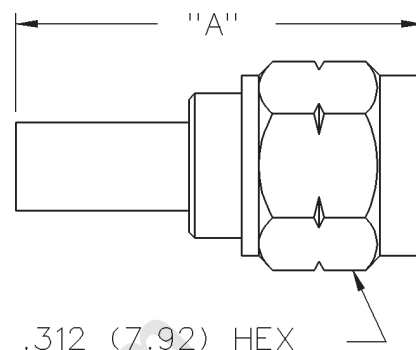
Mating Engagement for SMA Reverse Thread Series



NOTES

1. ID of contact to meet VSWR, contact resistance and insertion withdrawal forces when mated with dia .0355-.0370 male pin.

Straight Crimp Type Plug - Solder or Crimp Captivated Contact

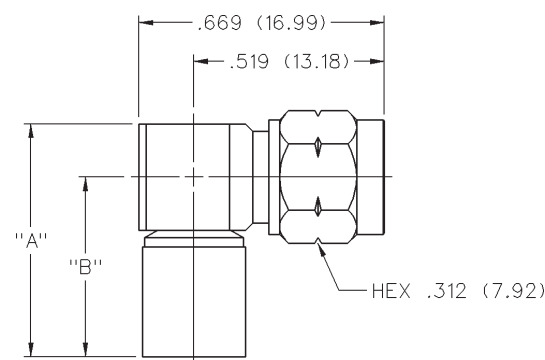
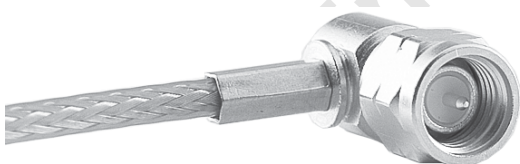


CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"
RG-316/U, 188, 174, 161 LMR-100, HPF-100, RF-100	1.15 + .02f (GHz) 0-12.4 GHz	142-5403-001	142-5403-006	.706 (17.93)
RG-316 DS, 188 DS,	1.15 + .02f (GHz) 0-12.4 GHz	142-5404-001	142-5404-006	.706 (17.93)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.15 + .01f (GHz) 0-12.4 GHz	142-5407-001	142-5407-006	.706 (17.93)
RG-142/U, 55, 223, 400	1.15 + .01f (GHz) 0-12.4 GHz	142-5408-001	142-5408-006	.706 (17.93)
LMR-200, HPF-200, RF-200	1.10 + .03f (GHz) 0-12.4 GHz	142-5439-001	142-5439-006	.844 (21.44)
LMR-240, HPF-240, RF-240	1.10 + .03f (GHz) 0-12.4 GHz	142-5435-001	142-5435-006	.844 (21.44)

Assembly instructions: LMR 195, 200 and 240 page 230.

All other cables page 229. See page 190 for Cable Assembly Tools.

Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED	NICKEL PLATED	"A"	"B"
RG-316/U, 188, 174, 161 LMR-100, HPF-100, RF-100	1.15 + .03f (GHz) 0-12.4 GHz	142-5403-101	142-5403-106	.611 (15.52)	.470 (11.94)
RG-316 DS, 188 DS,	1.15 + .03f (GHz) 0-12.4 GHz	142-5404-101	142-5404-106	.611 (15.52)	.470 (11.94)
RG-58/U, 141, 303, LMR-195, HPF-195, RF-195	1.15 + .02f (GHz) 0-12.4 GHz	142-5407-101	142-5407-106	.611 (15.52)	.470 (11.94)
RG-142/U, 55, 223, 400	1.15 + .02f (GHz) 0-12.4 GHz	142-5408-101	142-5408-106	.611 (15.52)	.470 (11.94)
LMR-200, HPF-200, RF-200	1.10 + .06f (GHz) 0-12.4 GHz	142-5439-101	142-5439-106	.611 (15.52)	.470 (11.94)
LMR-240, HPF-240, RF-240	1.10 + .06f (GHz) 0-12.4 GHz	142-5435-101	142-5435-106	.635 (16.13)	.490 (12.45)

Assembly instructions: LMR 195, 200 and 240 page 233.

All other cables page 232. See page 190 for Cable Assembly Tools.

SMA Reverse Thread - 50 Ohm

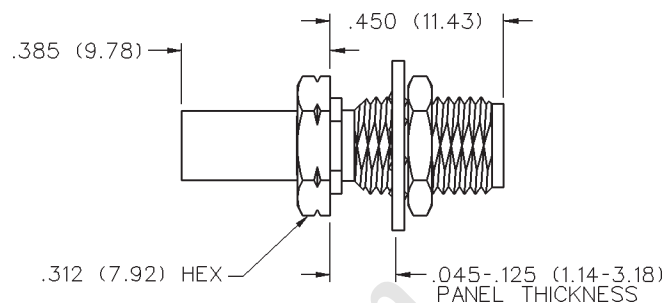
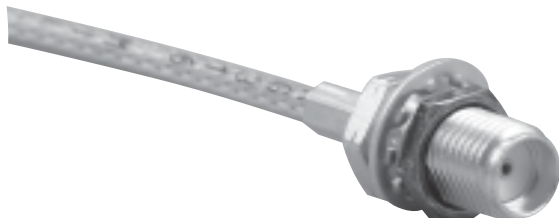
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Straight Crimp Type Bulkhead Jack - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-316/U, 188, 174, 161	142-5303-401	142-5303-406
RG-316 DS, 188 DS	142-5304-401	142-5304-406
RG-58/U, 141, 303	142-5307-401	142-5307-406
RG-142/U, 55, 223, 400	142-5308-401	142-5308-406

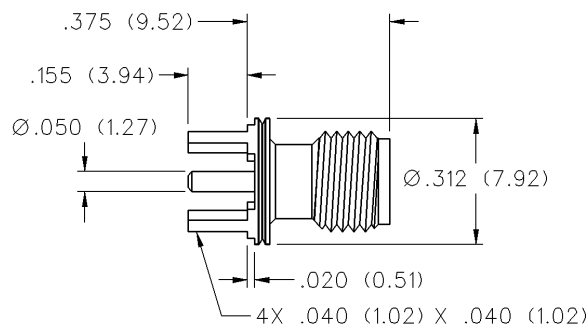
Assembly instructions page 229.
See page 190 for Cable Assembly Tools.
Mounting hole layout figure 1 page 201.

Straight Jack Receptacle

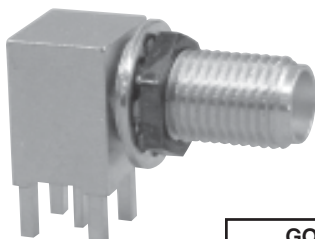


GOLD PLATED	NICKEL PLATED
142-5701-201	142-5701-206

Mounting hole layout figure 2 page 201.

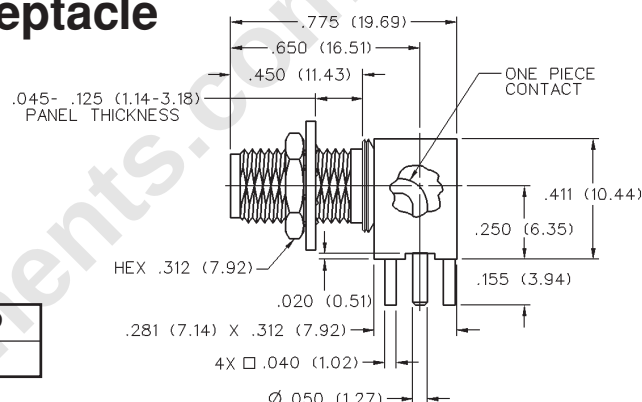


Right Angle Bulkhead Jack Receptacle

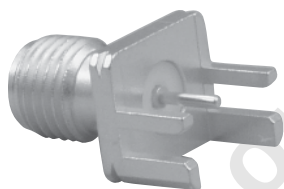


GOLD PLATED	NICKEL PLATED
142-5701-501	142-5701-506

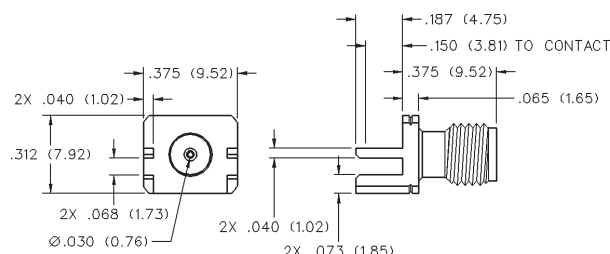
Mounting hole layout figures 1 and 2 page 201.



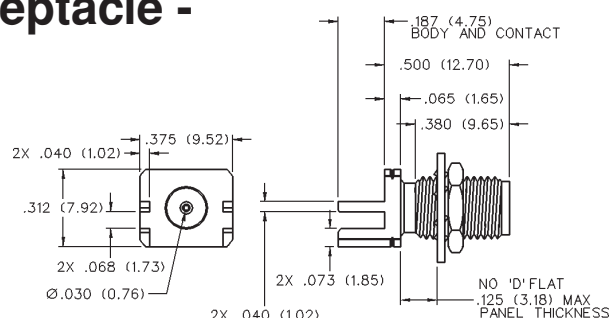
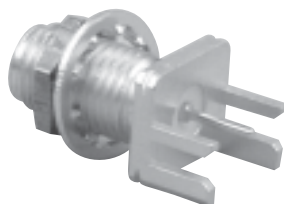
End Launch Jack Receptacle - Round Contact



FREQUENCY RANGE	GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
0-18 GHz	142-5701-801	142-5701-806	.062 (1.57)



End Launch Bulkhead Jack Receptacle - Round Contact



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS
142-5701-811	142-5701-816	.062 (1.57)

SMA Non-Magnetic RF Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

EMERSON
Network Power

ELECTRICAL RATINGS

Impedance: 50 ohms

Frequency Range: Flexible cable connectors 0-12.4 GHz
Uncabled receptacles 0-18.0 GHz

VSWR: (f = GHz) Straight Cabled Connectors RA Cabled Connectors

RG-316 1.15 + .02f 1.15 + .03f

RG-58 1.15 + .01f 1.15 + .02f

Uncabled receptacles N/A

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type Sea Level 70K Feet

RG-316 250 65

RG-58, uncabled receptacles 335 85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-316 750

Connectors for RG-58, uncabled receptacles 1000

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-316 190

Connectors for RG-58, uncabled receptacles 250

Insertion Loss: (dB maximum)

Straight flexible cable connectors $0.06\sqrt{f}$ (GHz), tested at 6 GHz

Right angle flexible cable connectors $0.15\sqrt{f}$ (GHz), tested at 6 GHz

Uncabled receptacles N/A

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles) ...	3.0	4.0
Center contact (right angle cabled connectors)	4.0	6.0
Outer contact (all connectors)	2.0	N/A
Braid to body	0.5	N/A

[†]Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

RF Leakage: (dB minimum, tested at 2.5 GHz)

Flexible cable connectors -60 dB

Uncabled receptacles N/A

RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-316 500

Connectors for RG-58, uncabled receptacles 670

MECHANICAL RATINGS

Engagement Design: MIL-STD-348, Series SMA

Engagement/Disengagement Force: 2 inch-pounds maximum

Mating Torque: 7 to 10 inch-pounds

Coupling Proof Torque: 15 inch-pounds minimum

Coupling Nut Retention: 60 pounds minimum

Contact Retention: 6 lbs. minimum axial force (captivated contacts)
4 inch-ounce minimum torque (uncabled receptacles)

	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-316	20	N/A
Connectors for RG-58	40	N/A

*Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: -65°C to +165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition D

Moisture Resistance: MIL-STD-202, Method 106

See Non-Magnetic materials page 29.

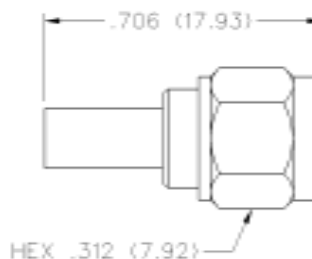
Straight Crimp Type Plug (3-piece) - Captivated Contact



CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED
RG-316/U, 188, 174	1.15 + .02f (GHz) 0-12.4 GHz	142-9403-011
RG-316 DS, 188 DS	1.15 + .02f (GHz) 0-12.4 GHz	142-9404-011
RG-58/U, 141	1.15 + .01f (GHz) 0-12.4 GHz	142-9407-001

Assembly instructions page 229.

See page 190 for Cable Assembly Tools.



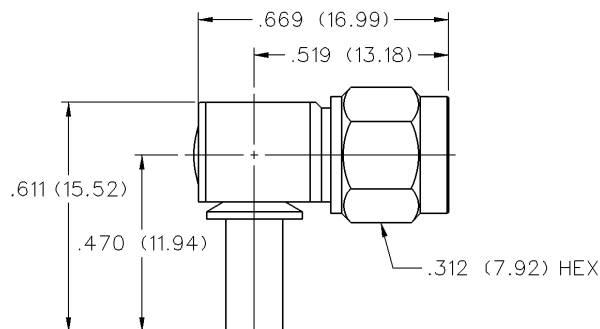
Right Angle Crimp Type Plug - Captivated Contact



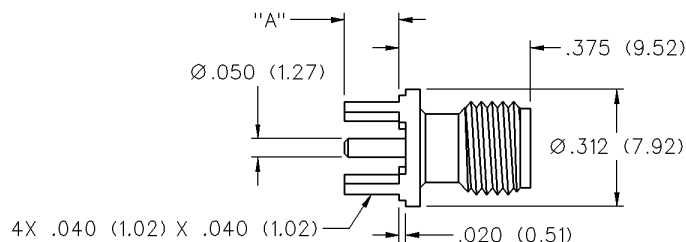
CABLE TYPE	VSWR & FREQ. RANGE	GOLD PLATED
RG-316/U, 188, 174	1.15 + .03f (GHz) 0-12.4 GHz	142-9403-101
RG-316 DS, 188 DS	1.15 + .03f (GHz) 0-12.4 GHz	142-9404-101
RG-58/U, 141	1.15 + .02f (GHz) 0-12.4 GHz	142-9407-101

Assembly instructions page 232.

See page 190 for Cable Assembly Tools.



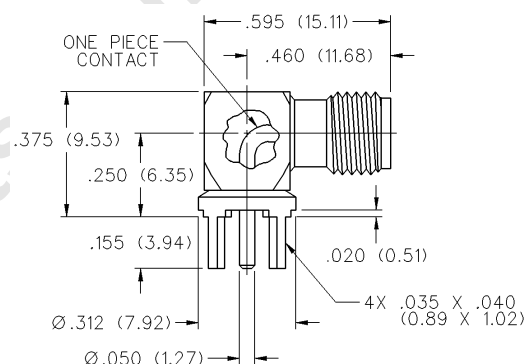
Straight Jack Receptacle



FREQUENCY RANGE	GOLD PLATED	"A"
0-18 GHz	142-9701-201	.155 (3.94)
0-18 GHz	142-9701-211	.110 (2.79)

Mounting hole layout figure 2 page 201.

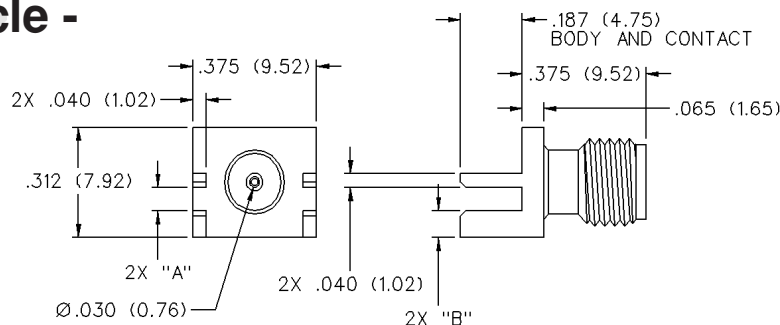
Right Angle Jack Receptacle



FREQUENCY RANGE	GOLD PLATED
0-18 GHz	142-9701-301

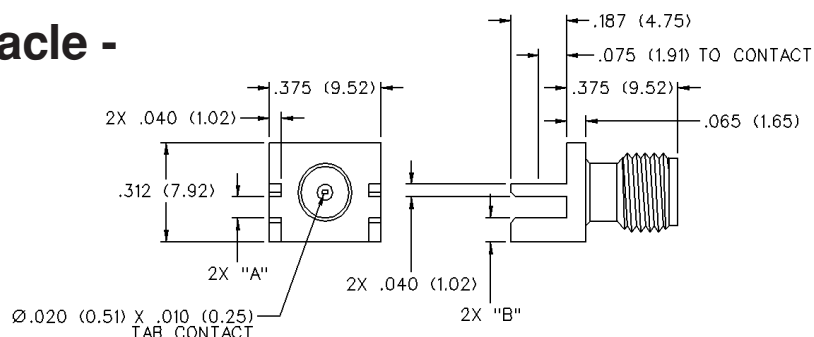
Mounting hole layout figure 2 page 201.

End Launch Jack Receptacle - Round Contact



FREQUENCY RANGE	GOLD PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-9701-801	.062 (1.57)	.068 (1.73)	.073 (1.85)

End Launch Jack Receptacle - Tab Contact



FREQUENCY RANGE	GOLD PLATED	BOARD THICKNESS	"A"	"B"
0-18 GHz	142-9701-811	.062 (1.57)	.068 (1.73)	.083 (2.11)

Epoxy Staked Feedthrough

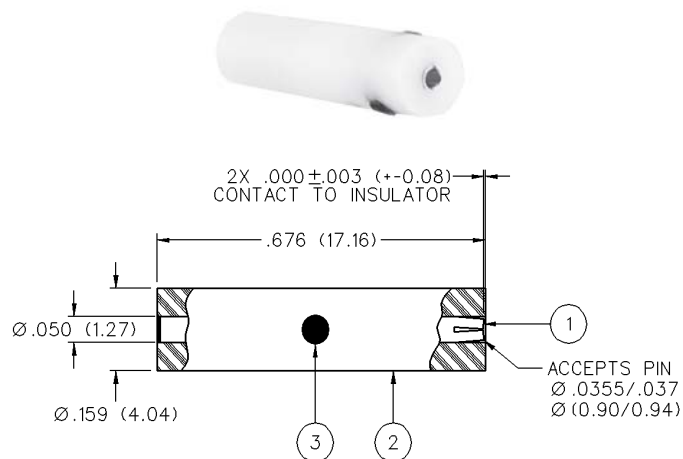


FIG. 1

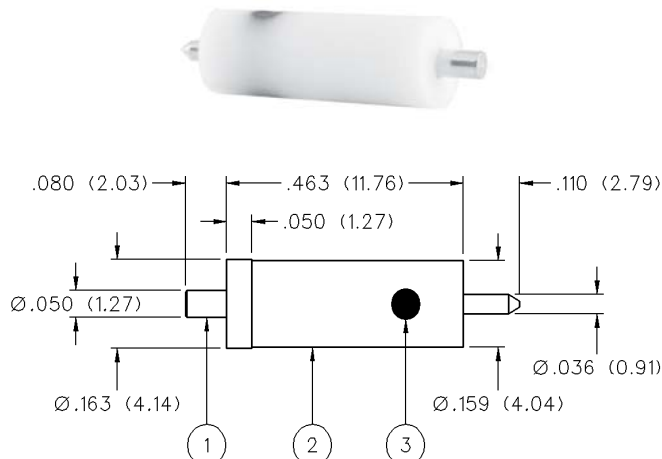


FIG. 2

PART NO.	ITEM 1 CONTACT	ITEM 2 INSULATOR	ITEM 3 STAKE	FIGURE
142-1000-012	Beryllium Copper Gold pl .00005 min over Nickel pl .000005 min over Copper pl .00005 min	Teflon	Epoxy	1
142-1000-018	Brass Gold pl .00005 min over Nickel pl .000005 min over Copper pl .00005 min	Teflon	Epoxy	2

Specifications:

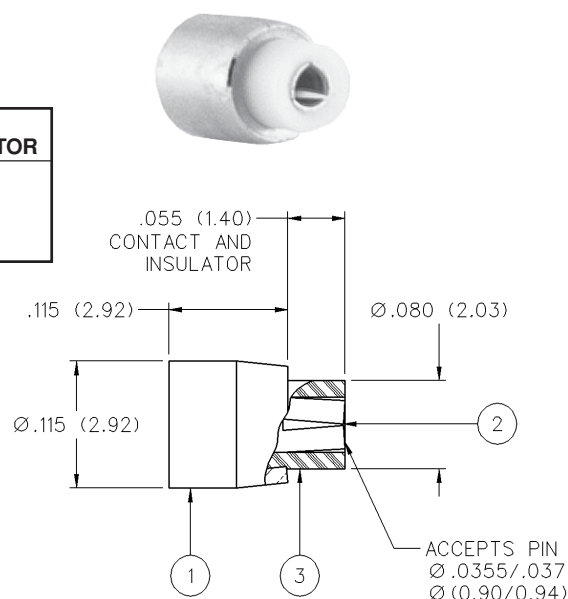
Impedance: 50 Ohms Nominal
Frequency Range: DC to 26.5 GHz
VSWR: Dependent upon application
Working Voltage: 335 VRMS max at sea level
Dielectric Withstanding Voltage: 1000 VRMS min at sea level
Insulation Resistance: 5000 Megohm min
Contact to Insulator Retention: 6 lb. min
Operating Temperature: -55° C to + 165° C

PC Board Feedthrough

PART NO.	ITEM 1 CONTACT (END CAP)	ITEM 2 CONTACT (CENTER)	ITEM 3 INSULATOR
142-1000-022	Brass Gold pl .00001 min over Nickel pl .000005 min over Copper pl .00005 min	Beryllium Copper Gold pl .00005 min over Nickel pl .000005 min over Copper pl .00005 min	Teflon

Application:

Lower frequency feedthrough.
Solder end cap to one side of PC board.
Contact passes through board and is isolated from board by Teflon™ insulator.



SMB Connectors - 50 Ohm Connectors

Bulkhead Mount and Panel Mount	98
Flexible Cable	89
In-Series Adapters and Terminations	100
Non-Magnetic RF Connectors	101
PC Mount	93
Semi-Rigid Cable	87
Specifications	86

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

SMB - 50 Ohm Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: Connectors 0-4 GHz
Dummy loads 0-1 GHz

VSWR: (f = GHz)

	Straight Cabled	Right Angle Cabled
RG-178 cable	1.30 + .04f	1.45 + .06f
RG-316, RG-58, and .086 Semi-Rigid cable	1.25 + .04f	1.35 + .04f
Adapters	1.20 + .04f	
Uncabled receptacles, dummy loads		N/A

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-178	250	60
RG-316, RG-58, .086 Semi-Rigid		
uncabled receptacles, adapters	335	85
Dummy loads		N/A

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-178	750
Connectors for RG-316, RG-58, .086 Semi-Rigid, uncabled receptacles, adapters	1000
Dummy loads	N/A

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-178	185
Connectors for RG-316, RG-58, .086 Semi-Rigid	250
Uncabled receptacles, adapters, dummy loads	N/A

Insertion Loss: (dB maximum, tested at 1.5 GHz)

Straight cable connectors	0.30 dB
Right angle cable connectors	0.60 dB
Uncabled receptacles, adapters and dummy loads	N/A

Insulation Resistance: 1000 megohms minimum

Contact Resistance: (milliohms maximum)	Initial	After Environmental
Center contact (straight cabled connectors and uncabled receptacles)	6.0	8.0
Center contact (right angle cabled connectors and adapters)	12.0	16.0
Outer contact (gold plated connectors)	1.0	1.5
Outer contact (nickel plated connectors)	2.5	3.5
Braid to body (gold plated connectors)	1.0	N/A
Braid to body (nickel plated connectors)	2.5	N/A

RF Leakage: (dB minimum tested at 2.5 GHz)

Cable connectors	-55 dB
Uncabled receptacles, adapters and dummy loads	N/A

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-178	500
Connectors for RG-316, RG-58	700
Uncabled receptacles and adapters	600
Dummy loads	N/A

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125°C

MECHANICAL RATINGS

Engagement Design: mil-c-39012, Series SMB

Engagement/Disengagement Force: 2 pounds min to 14 pounds maximum axial force

Contact Retention: 4 lbs. min axial force (captivated contacts)
1 inch-ounce min torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-178	10	N/A
Connectors for RG-316	20	N/A
Connectors for RG-58	40	16
Connectors for .086 Semi-Rigid	30	16

* or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: Connectors -65°C to +165°C
Dummy loads -65°C to +125°C

Thermal Shock: MIL-STD-202, Method 107, Condition B (N/A dummy loads)

Corrosion: MIL-STD-202, Method 101, Condition B (N/A dummy loads)

Shock: MIL-STD-202, Method 213, Condition B (N/A dummy loads)

Vibration: MIL-STD-202, Method 204, Condition B (N/A dummy loads)

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626 or zinc per ASTM B86-71, gold plated** per MIL-G-45204 .00001 min or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457 OR Teflon PFA 340

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

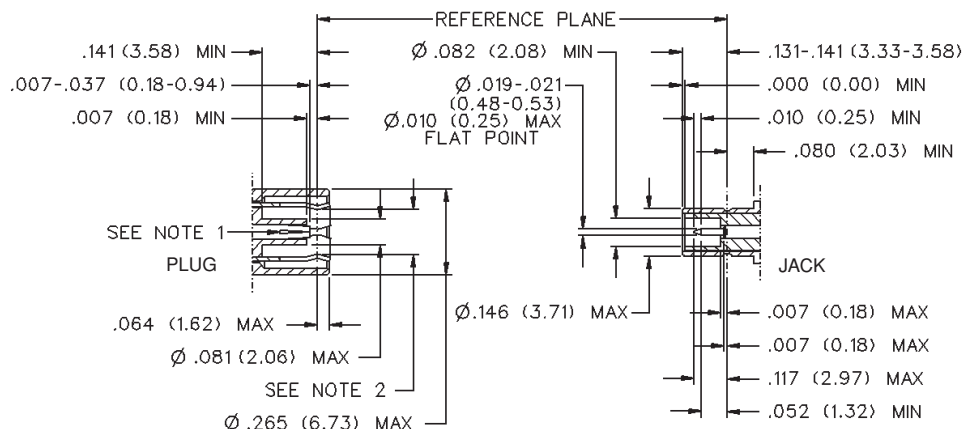
Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Cover Rings: Phosphor Bronze per QQ-B-750, gold plated per MIL-G-45204 .00001 min. or nickel plated per QQ-N-290.

[†]Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

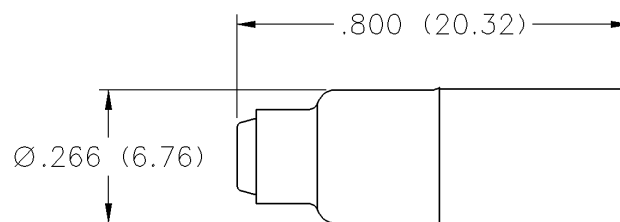
Mating Engagement for SMB Series



Notes

1. ID of contact to meet VSWR mating characteristics and connector durability when mated with a dia .019 /0.53 male contact.
2. Must meet the force to engage and disengage when mated with mating part.

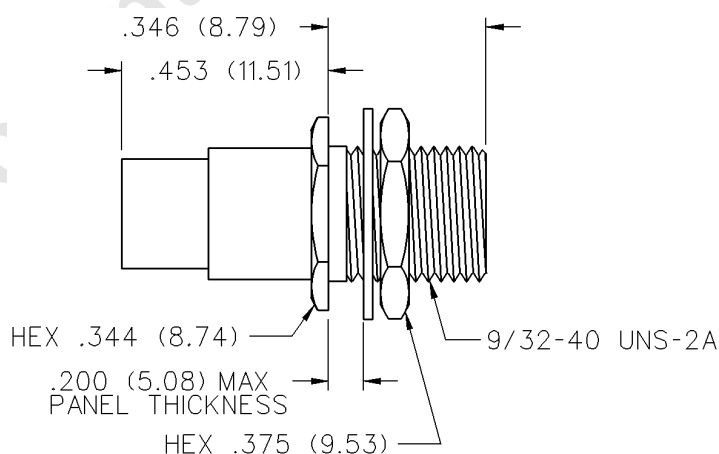
Straight Solder Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	131-3693-001	131-3693-016

Assembly instructions page 237.

Straight Solder Type Bulkhead Plug - Captivated Contact

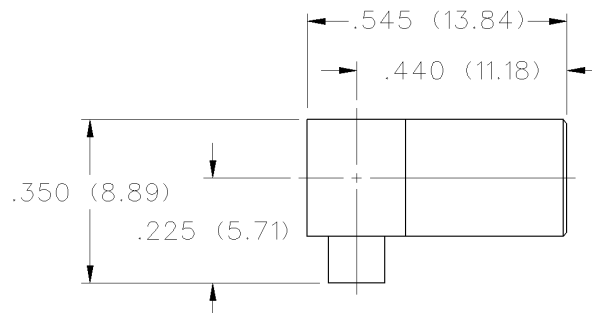


CABLE TYPE	GOLD PLATED	NICKEL PLATED
.141 Semi-Rigid	131-3694-401	131-3694-406

Assembly instructions page 237.

Mounting hole Dia. .290 (7.05).

Right Angle Solder Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	131-3693-101	131-3693-116

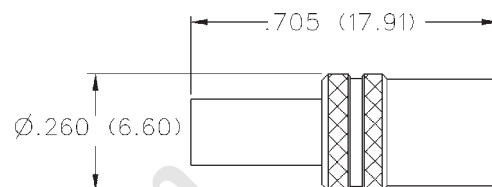
Assembly instructions page 238.

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

Straight Crimp Type Plug (3-Piece) - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	131-3403-021	131-3403-026
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3404-021	131-3404-026
RG-58/U, 141, 303	131-3407-021	131-3407-026

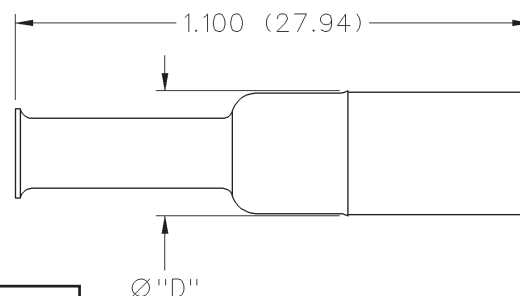


Assembly instructions page 236.
See page 190 for Cable Assembly Tools.

Straight Crimp Type Plug - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CRIMP CONTACT	"D"
RG-178/U, 196	131-3402-001	131-3402-016	No	.266 (6.76)
RG-161/U, 174, 179, 187, 188, 316	131-3403-001	131-3403-016	Yes	.266 (6.76)
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3404-001	131-3404-016	Yes	.266 (6.76)
RG-58/U, 141, 303	131-3407-001	131-3407-006	Yes	.270 (6.86)

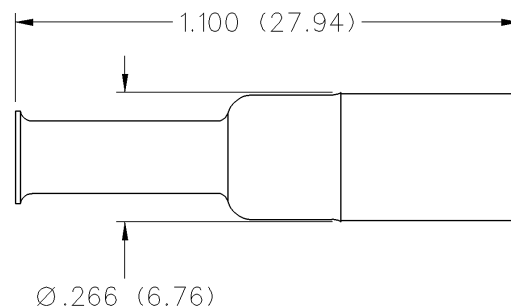


Assembly instructions page 239.
See page 190 for Cable Assembly Tools.

Straight Crimp Type Plug - Die Cast - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	131-1403-001	131-1403-016
RG-316 DS, 188 DS, 179 DS, 187 DS	131-1404-001	131-1404-016



Assembly instructions page 239.
See page 190 for Cable Assembly Tools.

SMB - 50 Ohm Connectors

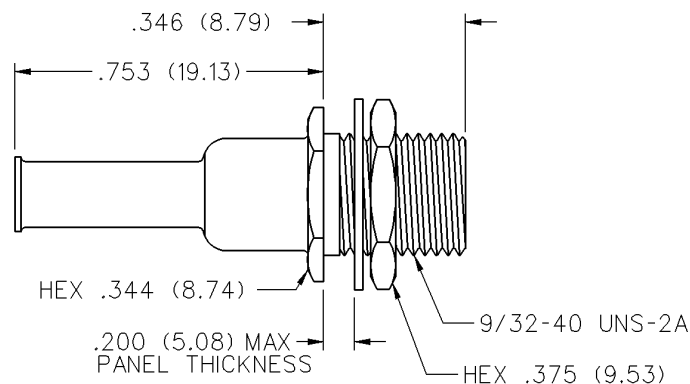
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

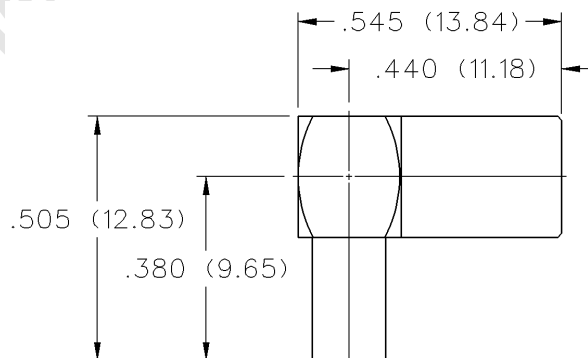
Straight Crimp Type Bulkhead Plug - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	131-3403-401	131-3403-406
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3404-401	131-3404-406

Assembly instructions page 239.
See page 190 for Cable Assembly Tools.
Mounting hole Dia. .290 (7.05).

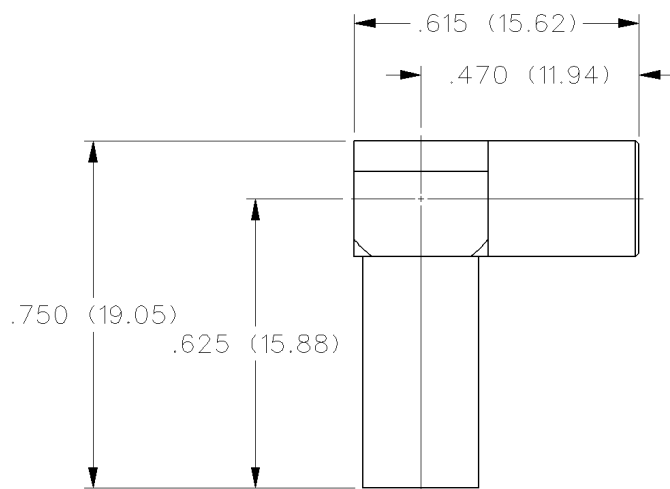
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-178/U, 196	131-3402-101	131-3402-116
RG-161/U, 174, 179, 187, 188, 316	131-3403-101	131-3403-116
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3404-101	131-3404-116

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

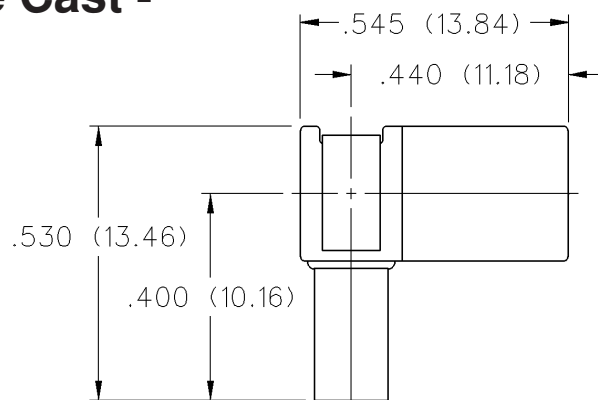
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-58/U, 141, 303	131-3407-101	131-3407-106

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

Right Angle Crimp Type Plug - Die Cast - Captivated Contact

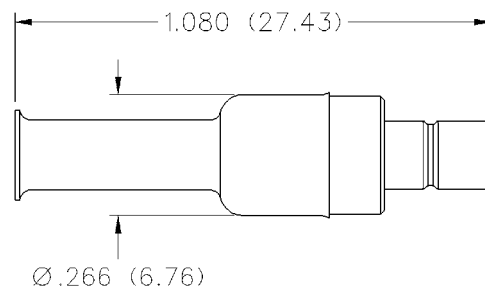


CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-178/U, 196	131-1402-101	131-1402-116
RG-161/U, 174, 179, 187, 188, 316	131-1403-101	131-1403-116
RG-316 DS, 188 DS, 179 DS, 187 DS	131-1404-101	131-1404-116

Assembly instructions page 240.

See page 190 for Cable Assembly Tools.

Straight Crimp Type Jack - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	CRIMPABLE CONTACT
RG-178/U, 196	131-3302-001	131-3302-006	No
RG-161/U, 174, 179, 187, 188, 316	131-3303-001	131-3303-006	Yes

Assembly instructions page 239.

See page 190 for Cable Assembly Tools.

SMB - 50 Ohm Connectors

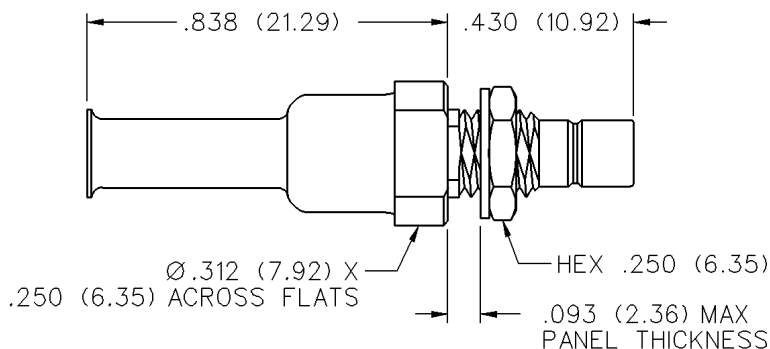
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



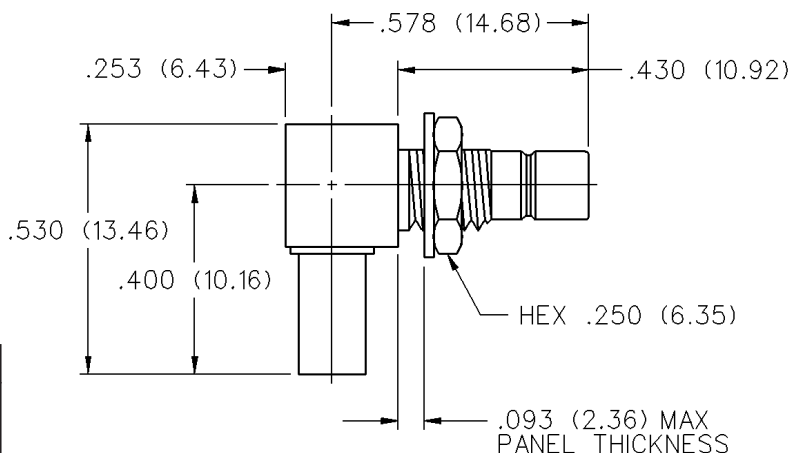
Straight Crimp Type Bulkhead Jack - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	131-3303-401	131-3303-406
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3304-401	131-3304-406

Assembly instructions page 239.
Mounting hole layout figure 5 page 201.
See page 190 for Cable Assembly Tools.

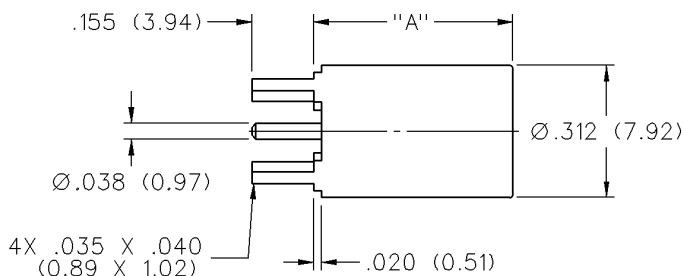
Right Angle Crimp Type Bulkhead Jack - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	131-3303-501	131-3303-506
RG-316 DS, 188 DS, 179 DS, 187 DS	131-3304-501	131-3304-506

Assembly instructions page 240.
Mounting hole layout figure 5 page 201.
See page 190 for Cable Assembly Tools.

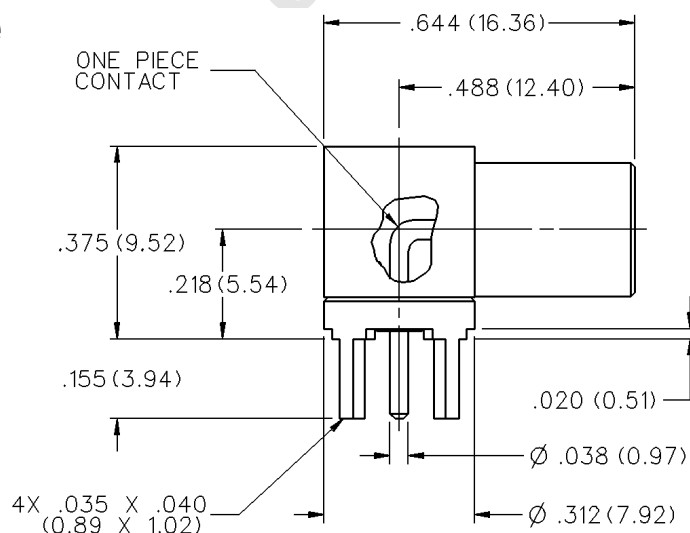
Straight Plug Receptacle



GOLD PLATED	NICKEL PLATED	"A"
131-3801-201	131-3801-216	.395 (10.03)
131-3801-231	131-3801-236	.500 (12.70)

Mounting hole layout figure 4 page 201.

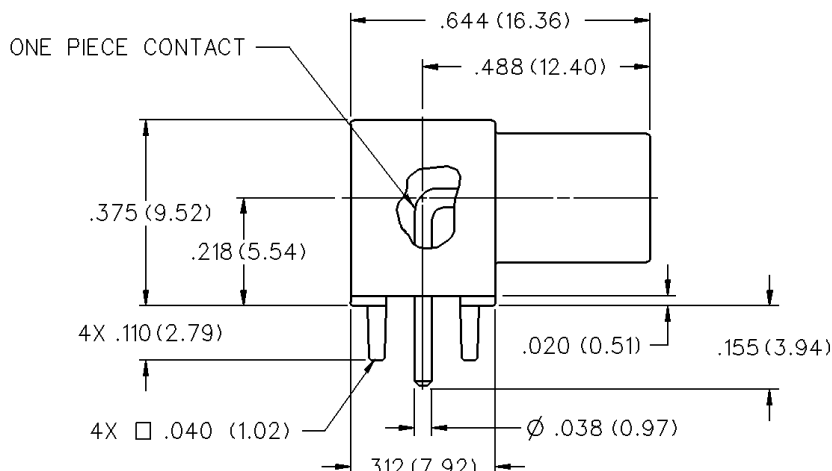
Right Angle Plug Receptacle



GOLD PLATED	NICKEL PLATED
131-3801-301	131-3801-316

Mounting hole layout figure 4 page 201.

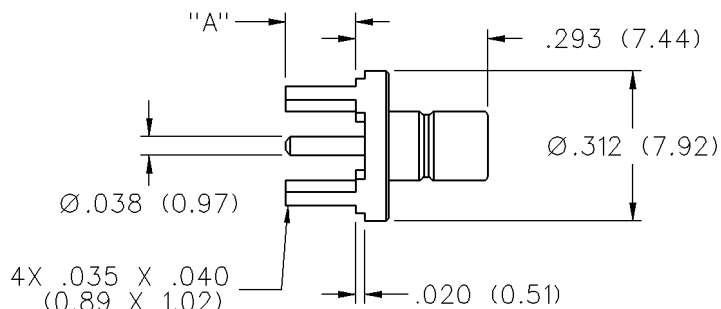
Right Angle Plug Receptacle - Die Cast



GOLD PLATED	NICKEL PLATED
131-1801-371	131-1801-376

Mounting hole layout figure 4 page 201.

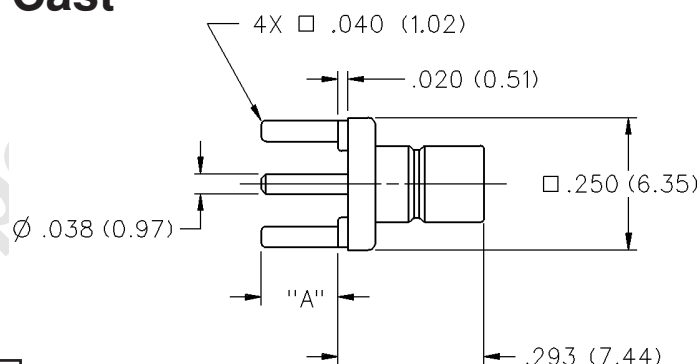
Straight Jack Receptacle



GOLD PLATED	NICKEL PLATED	IR COMPATIBLE*	"A"
131-3701-201	131-3701-206		.155 (3.94)
131-3701-211	131-3701-216	131-3701-215*	.110 (2.79)

* Tin/Lead solder dipped legs for IR Reflow Compatibility.
Mounting hole layout figure 4 page 201.

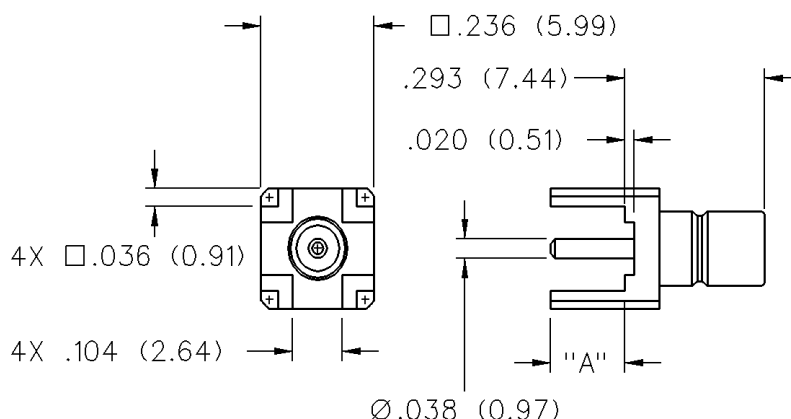
Straight Jack Receptacle - Die Cast



GOLD PLATED	NICKEL PLATED	IR COMPATIBLE*	"A"
131-1701-201	131-1701-206		.155 (3.94)
131-1701-211	131-1701-216	131-1701-215*	.095 (2.41)

* Tin/Lead solder dipped legs for IR Reflow Compatibility.
Mounting hole layout figure 4 page 201.

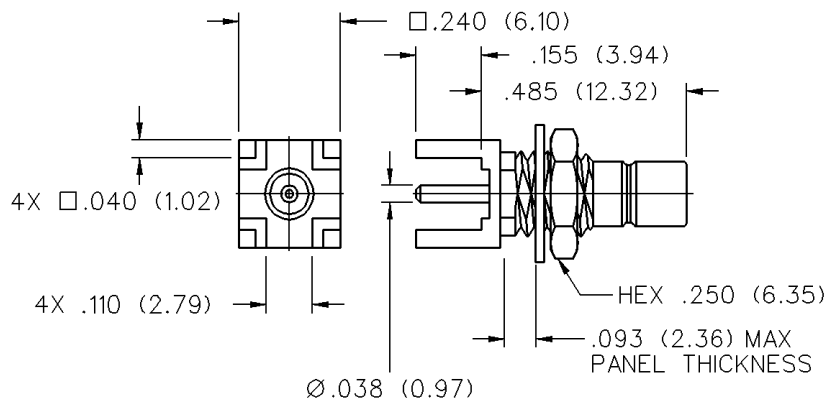
Straight Jack Receptacle



GOLD PLATED	NICKEL PLATED	IR COMPATIBLE*	"A"
131-3701-261	131-3701-266		.155 (3.94)
131-3701-271	131-3701-276	131-3701-275	.095 (2.41)

* Tin/Lead solder dipped legs for IR Reflow Compatibility.
Mounting hole layout figure 4 page 201.

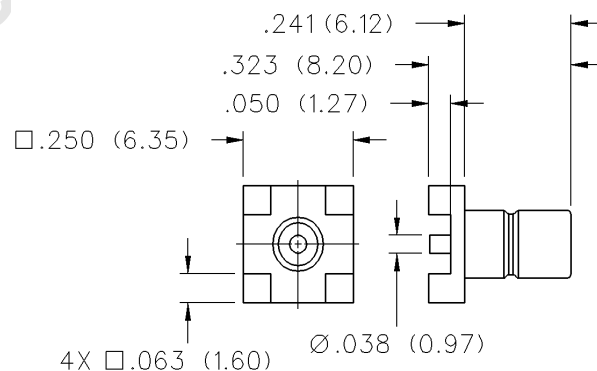
Straight Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-231	131-3701-236

Mounting hole layout figures 4 and 5 page 201.

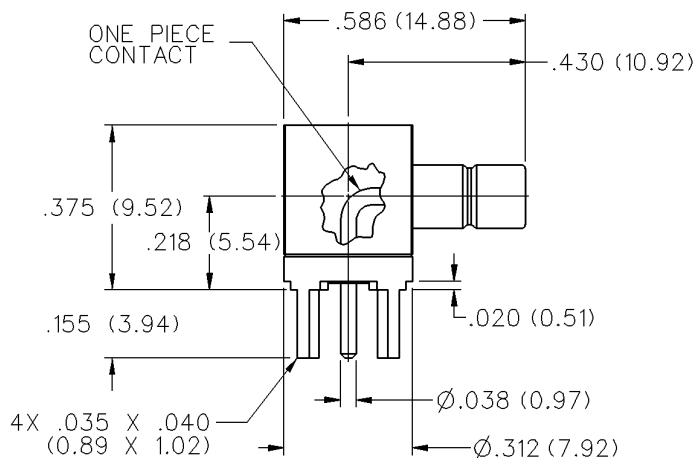
Straight Jack Receptacle - Surface Mount



GOLD PLATED
131-3711-201

Recommended Land Pattern figure 9 page 201.

Right Angle Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-301	131-3701-306

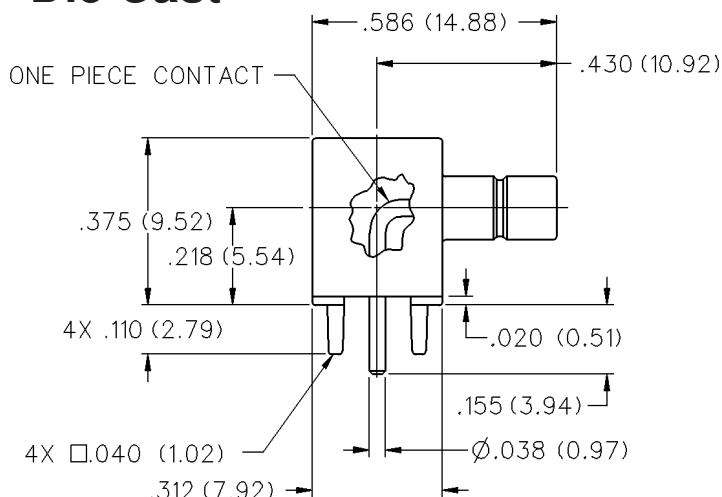
Mounting hole layout figure 4 page 201.

Right Angle Jack Receptacle - Die Cast

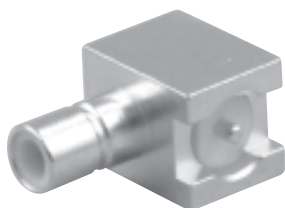


GOLD PLATED	NICKEL PLATED
131-1701-371	131-1701-376

Mounting hole layout figure 4 page 201.

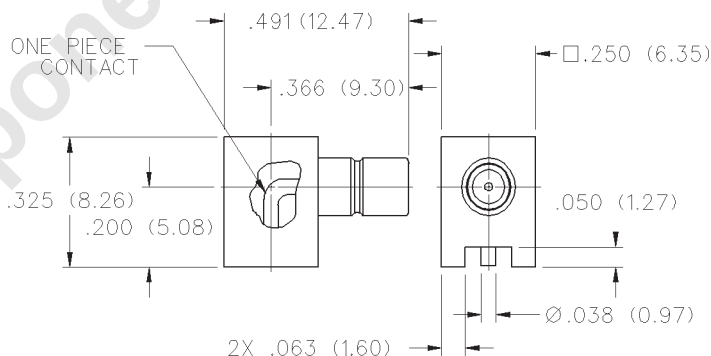


Right Angle Surface Mount Jack Receptacle



GOLD PLATED STANDARD PACKAGING	GOLD PLATED TAPE AND REEL
131-3711-301	131-3711-302 425 pcs/reel

Mounting hole layout figure 9 page 201.

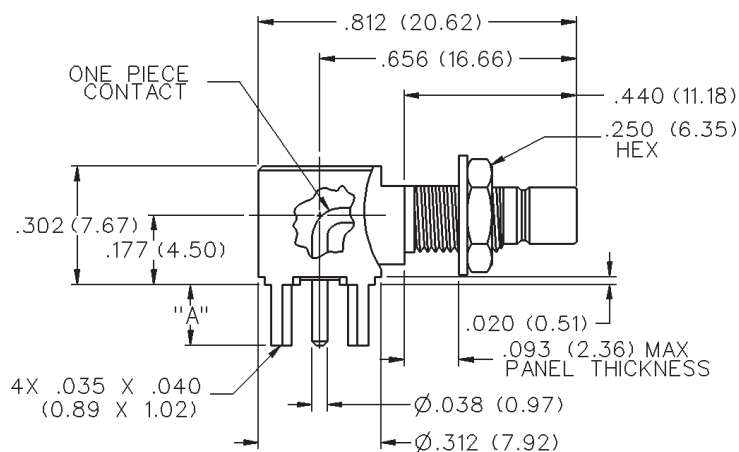


Right Angle Bulkhead Jack Receptacle

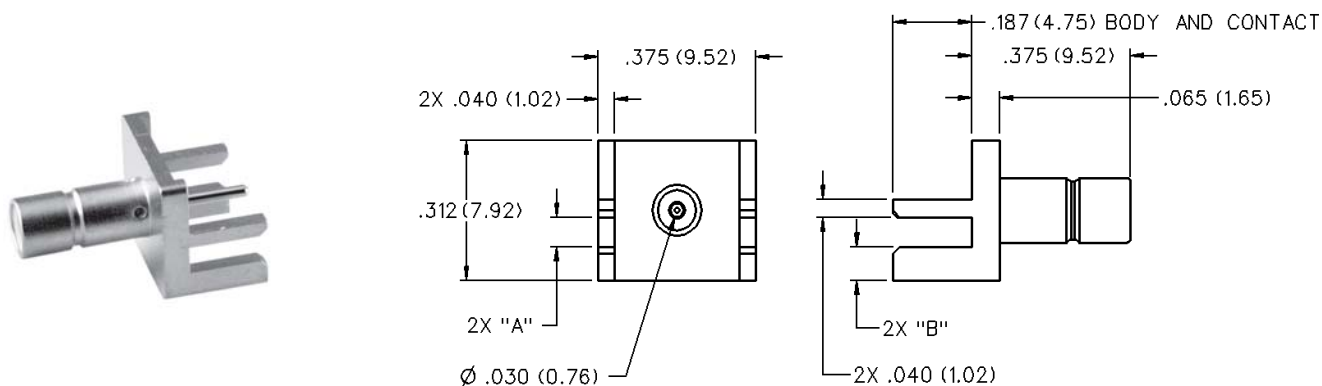


GOLD PLATED	NICKEL PLATED	"A"
131-3701-501	131-3701-506	.083 (2.11)
131-3701-511	131-3701-516	.110 (2.79)
131-3701-341	131-3701-346	.155 (3.94)

Mounting hole layout figures 4 and 5 page 201.

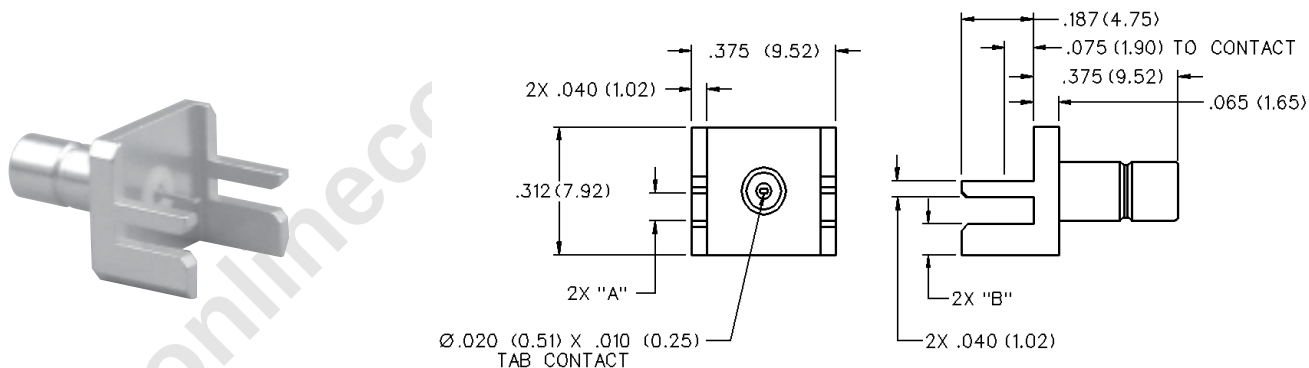


End Launch Jack Receptacle - Round Contact



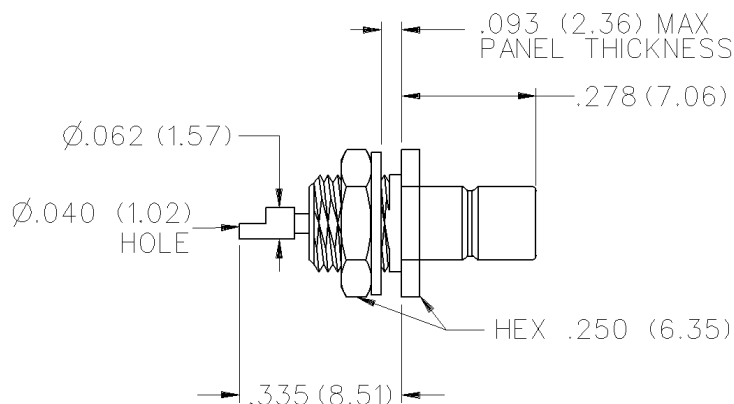
GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
131-3701-801	131-3701-806	.062 (1.57)	.068 (1.73)	.073 (1.85)
131-3701-821	131-3701-826	.042 (1.07)	.048 (1.22)	.093 (2.36)

End Launch Jack Receptacle - Tab Contact



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
131-3701-811	131-3701-816	.062 (1.57)	.068 (1.73)	.083 (2.11)
131-3701-831	131-3701-836	.042 (1.07)	.048 (1.22)	.103 (2.62)

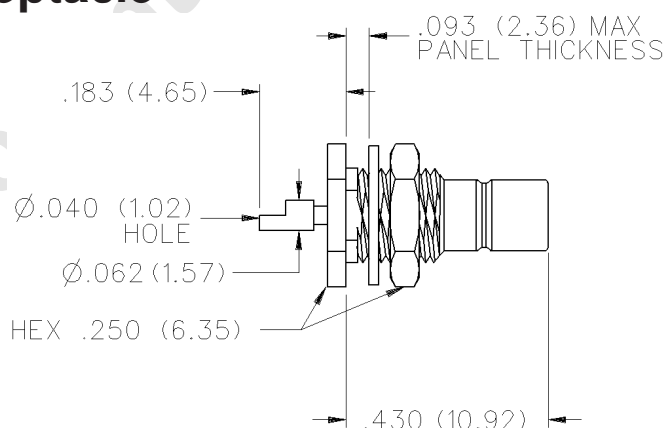
Front Mount Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-411	131-3701-416

Mounting hole layout figure 5 page 201.

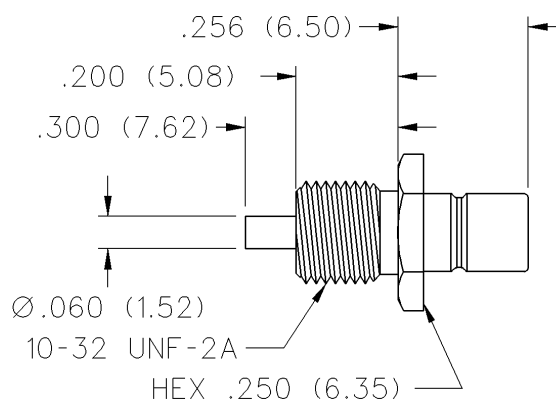
Rear Mount Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-401	131-3701-406

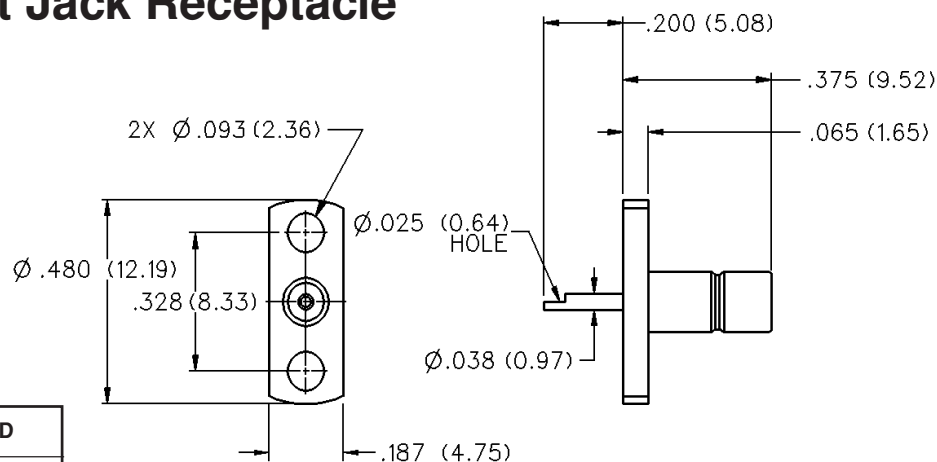
Mounting hole layout figure 5 page 201.

Round Contact Jack Receptacle - Thread Mount Ruggedized Interface



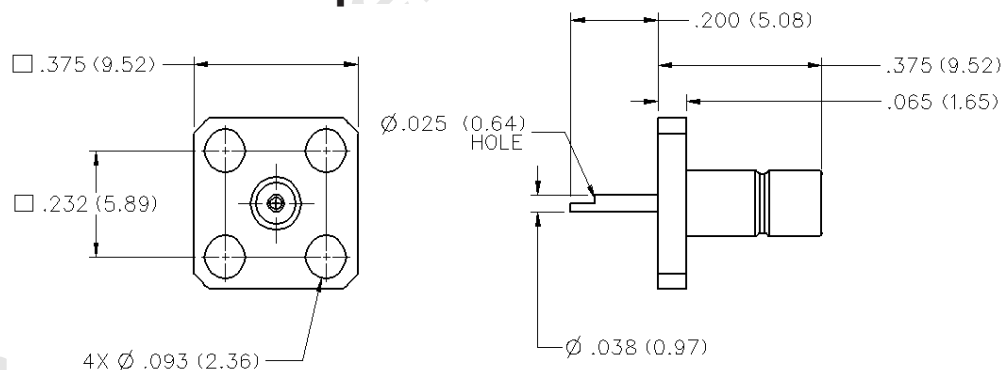
GOLD PLATED	NICKEL PLATED
131-3701-441	131-3701-446

2-Hole Flange Mount Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-621	131-3701-626

4-Hole Flange Mount Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-3701-631	131-3701-636

SMB - 50 Ohm Connectors

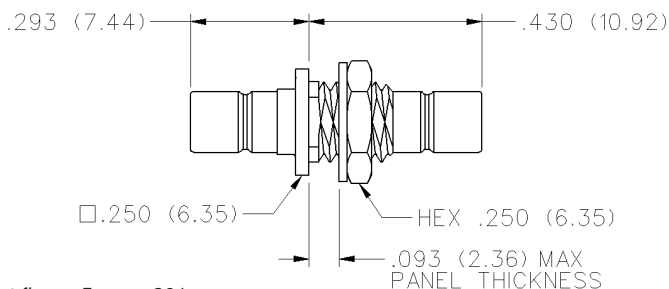
In-Series Adapters and Terminations

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

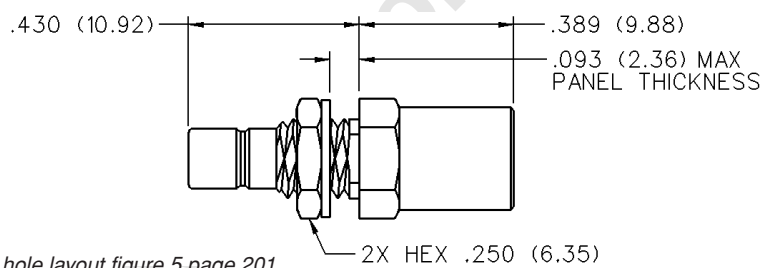
Jack to Bulkhead Jack Adapter



GOLD PLATED	NICKEL PLATED
131-3901-401	131-3901-406

Mounting hole layout figure 5 page 201.

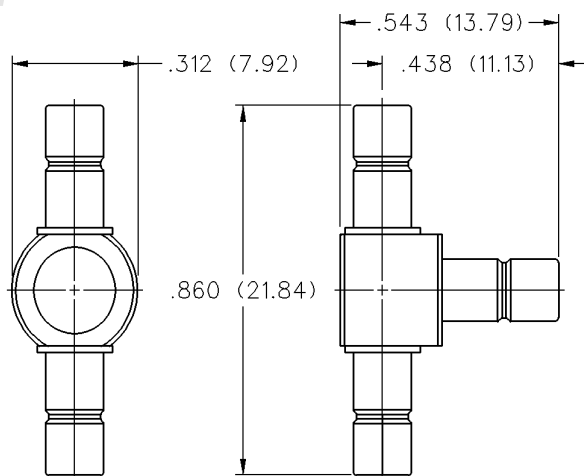
Plug to Bulkhead Jack Adapter



GOLD PLATED	NICKEL PLATED
131-3901-411	131-3901-416

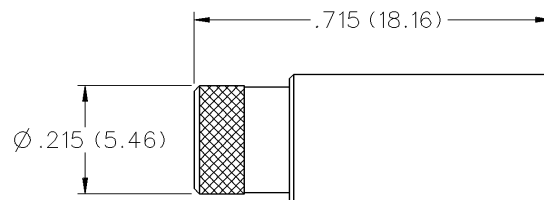
Mounting hole layout figure 5 page 201.

Jack to Jack to Jack Adapter



GOLD PLATED	NICKEL PLATED
131-3901-901	131-3901-906

Plug Dummy Load - 50 Ohm and 75 Ohm



FREQ. RANGE	GOLD PLATED	NICKEL	RESISTANCE
0-1 GHz	131-3801-811	131-3801-816	50 Ohm
0-1 GHz	131-3801-821	131-3801-826	75 Ohm

For precision 75 Ohm termination
see Mini-75 Ohm SMB section page 110.

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-4 GHz

VSWR: (f = GHz)

	Straight Cabled	Right Angle Cabled
RG-316	1.25 + .04f	1.35 + .04f
Uncabled receptacles	N/A	

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-316, uncabled connectors	335	85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-316, uncabled receptacles	1000
---	------

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-316	250
Uncabled receptacles	N/A

Insertion Loss: (dB maximum, tested at 1.5 GHz)

Straight cable connectors	0.30 dB
Right angle cable connectors	0.60 dB
Uncabled receptacles	N/A

Insulation Resistance: 1000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors and uncabled receptacles)	6.0	8.0
Center contact (right angle cabled connectors)	12.0	16.0
Outer contact (gold plated connectors)	1.0	1.5
Braid to body (gold plated connectors)	1.0	N/A

[†]Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

See Non-Magnetic materials page 29.

RF Leakage: (dB minimum tested at 2.5 GHz)

Cable connectors	-55 dB
Uncabled receptacles	N/A

RF High Potential Withstanding Voltage:

(VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-316	700
Uncabled receptacles	600

Power Rating (Dummy Load): 0.5 watt @ +25°C, derated to 0.25 watt @ +125° C

MECHANICAL RATINGS

Engagement Design: MIL-STD-348, Series SMB

Engagement/Disengagement Force: 2 pounds min to 14 pounds maximum axial force

Contact Retention: 4 lbs. min axial force (captivated contacts)

1 inch-ounce min torque (uncabled receptacles)

Cable Retention:

Connectors for RG-316

*or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-PRF-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition B

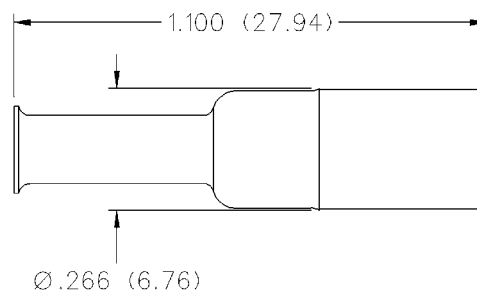
Straight Crimp Type Plug - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED
RG-316/U, 188, 174, 179, 187	131-9403-001
RG-316 DS, 188 DS, 179 DS, 187 DS	131-9404-001

Assembly instructions page 239.

See page 190 for Cable Assembly Tools.



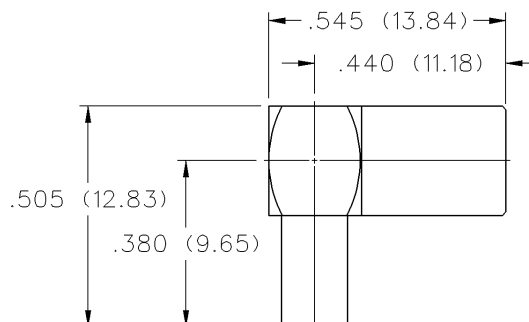
Right Angle Crimp Type Plug - Captivated Contact



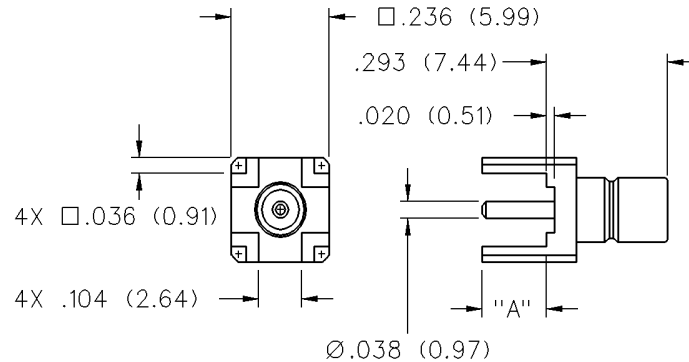
CABLE TYPE	GOLD PLATED
RG-316/U, 188, 174, 179, 187	131-9403-101
RG-316 DS, 188 DS, 179 DS, 187 DS	131-9404-101

Assembly instructions page 240.

See page 190 for Cable Assembly Tools.



Straight Jack Receptacle



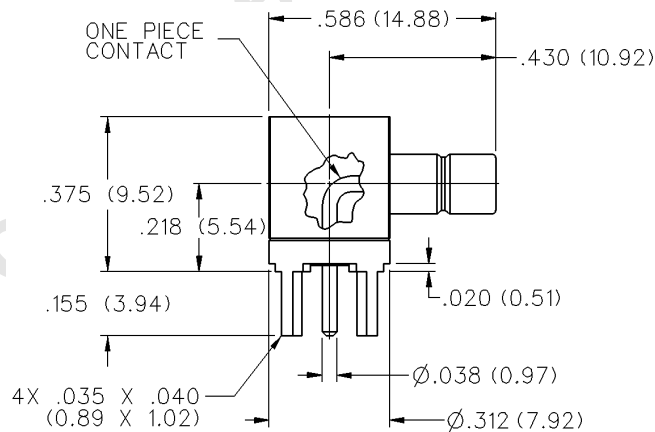
GOLD PLATED	"A"
131-9701-201	.155 (3.94)
131-9701-211	.095 (2.41)

Mounting hole layout figure 4 page 201.

Right Angle Jack Receptacle



GOLD PLATED
131-9701-301



Mounting hole layout figure 4 page 201.

SMB Connectors - Mini-75 Ohm

Between-Series Adapters	112
Flexible Cable	105
In-Series Matched Adapters	111
PC Mount	107
PC Mount and Panel Mount	109
Standards (Calibration) Kit	114
Specifications	104
Terminations	110

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

Mini-75 Ohm SMB Connectors

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ELECTRICAL RATINGS

Impedance: 75 Ohms

Frequency Range: 0-2 GHz

VSWR: f = GHz

RG-179, RG-59, Belden 735A cable:

Straight cabled connectors	1.25 + .04f
Right angle cabled connectors	1.35 + .04f
Adapters	1.20 + .04f
Type N Adapters	1.05 + .01f
Matching pad 50 Ohm/75 Ohm	1.05 + .1f
Loads	1.05 + .01f
Uncabled receptacles, opens, shorts	N/A

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-179, RG-59, Belden 735A, uncabled receptacles, adapters	335	85
Open, shorts, loads, matching pad	N/A	N/A

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-179, RG-59, Belden 735A, uncabled receptacles, adapters	1000
Open, shorts, loads, matching pad	N/A

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-179, RG-59, Belden 735A	250
---	-----

Uncabled receptacles, adapters, open, shorts, loads, matching pad: N/A

Electrical Length: Open $\pm 1.5^\circ$ ($\pm 5.2^\circ$ relative to short)

Short $\pm 1.5^\circ$ ($\pm 5.2^\circ$ relative to open)

Adapters $\pm 5.2^\circ$ (N/A for Jack-Bulkhead Jack and N Types)

Insertion Loss: (dB maximum, tested at 1.5 GHz)

Straight cable connectors	0.30 dB
Right angle cable connectors	0.60 dB
Matching pad	6 dB nominal
Uncabled receptacles, adapters, opens, shorts, loads	N/A

Insulation Resistance: 1000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors, uncabled receptacles, opens, shorts, loads)	6.0	8.0
Center contact (right angle cabled connectors and adapters)	12.0	16.0
Outer contact (gold plated connectors)	1.0	1.5
Outer contact (nickel plated connectors)	2.5	3.5
Braid to body (gold plated connectors)	1.0	N/A
Braid to body (nickel plated connectors)	2.5	N/A

RF Leakage: (dB minimum tested at 2.0 GHz)

Cable connectors	-55 dB
Uncabled receptacles, adapters opens, shorts, loads, matching pad...N/A	

RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-179, RG-59, Belden 735A	700
Uncabled receptacles and adapters	600
Opens, shorts, loads, matching pad	N/A

Power Rating: (Loads and matching pad only) 1.0 watt at +25°C derated linearly to .5 watt at +125°C

MECHANICAL RATINGS

Engagement Design: MIL-PRF-39012, Series SMB

Engagement/Disengagement Force: 2 pounds minimum to

14 pounds maximum axial force

Contact Retention: 4 lbs. minimum axial force (captivated contacts)

1 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-179, Belden 735A	20	N/A
Connectors for RG-59	40	N/A

* or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to +165°C -- Connectors and adapters

- 65°C to +125°C -- Loads, matching pad

20°C to 26°C -- Opens, shorts

Thermal Shock: MIL-STD-202, Method 107, Condition B

(N/A opens, shorts, loads, matching pad)

Corrosion: MIL-STD-202, Method 101, Condition B

(N/A opens, shorts, loads, matching pad)

Shock: MIL-STD-210, Method 213, Condition B

(N/A opens, shorts, loads, matching pad)

Vibration: MIL-STD-202, Method 204, Condition B

(N/A opens, shorts, loads, matching pad)

Temperature Coefficient: (Loads only) ± 300 ppm/°C

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated** per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

N type adapters stainless steel per QQ-S-763, passivated per MIL-F-14072

Contacts: Male & Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

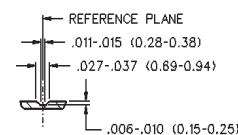
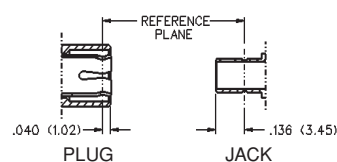
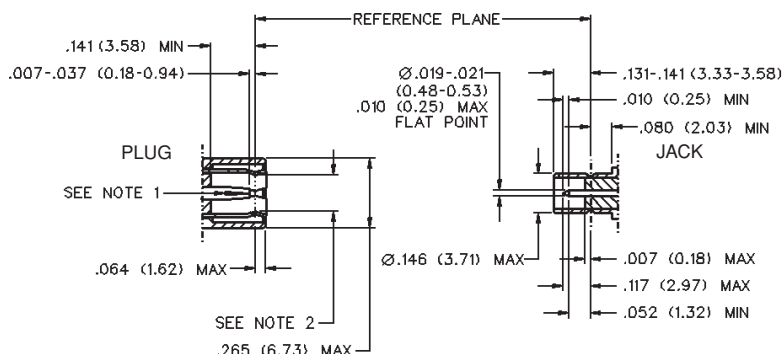
Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) QQ-B-750, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

[†]Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

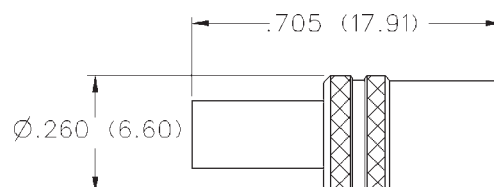
Mating Engagement for Mini-75 Ohm SMB Series (Intermatable with Standard 50 Ohm SMB)



NOTES:

1. ID of contact to meet VSWR, mating characteristics and connector durability when mated with a dia .019-.021 (0.48/0.53) male contact.
2. Must meet the force to engage and disengage when mated with mating part.

Straight Crimp Type Plug (3-Piece) - Captivated Contact



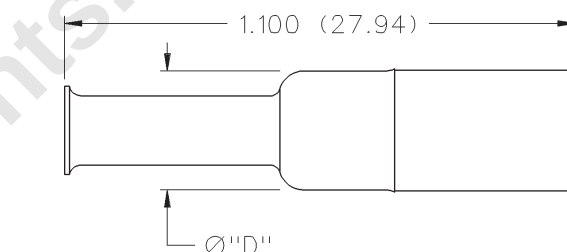
CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-179, RG-187	131-8433-001	131-8433-006
RG-179 DS RG-187 DS	131-8434-001	131-8434-006
Belden 735A	131-8445-011	131-8445-016

Assembly instructions page 236.
See page 190 for Cable Assembly Tools.

Straight Crimp Type Plug - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	"D"
RG-179, 187	131-8403-001	131-8403-006	.266 (6.76)
RG-179 DS RG-187 DS	131-8404-001	131-8404-006	.266 (6.76)
Belden 735A	131-8445-001	131-8445-006	.266 (6.76)
RG-59	131-8409-001	131-8409-006	.312 (7.92)



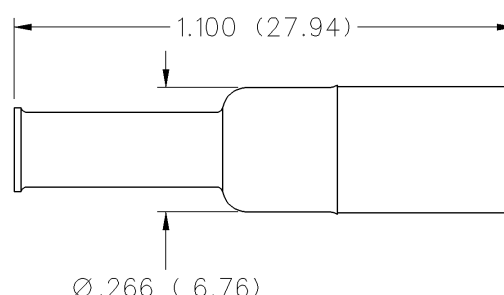
Assembly instructions page 239.
See page 190 for Cable Assembly Tools.

Straight Crimp Type Plug - Die Cast - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-179, 187	131-8403-011	131-8403-016
RG-179 DS RG-187 DS	131-8404-011	131-8404-016

Assembly instructions page 239.
See page 190 for Cable Assembly Tools.

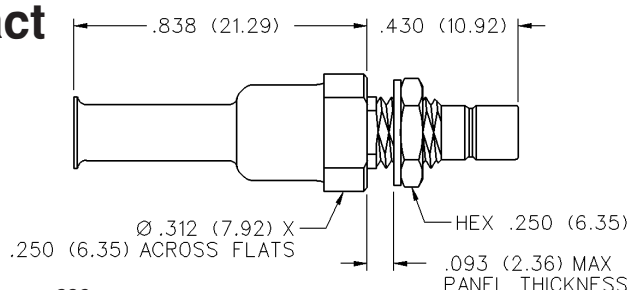


Straight Crimp Type Bulkhead Jack - Solder or Crimp Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-179, 187	131-8303-401	131-8303-406
RG-179 DS RG-187 DS	131-8304-401	131-8304-406

Assembly instructions page 239.
Mounting hole layout figure 5 page 201.
See page 190 for Cable Assembly Tools.



Mini-75 Ohm SMB Connectors

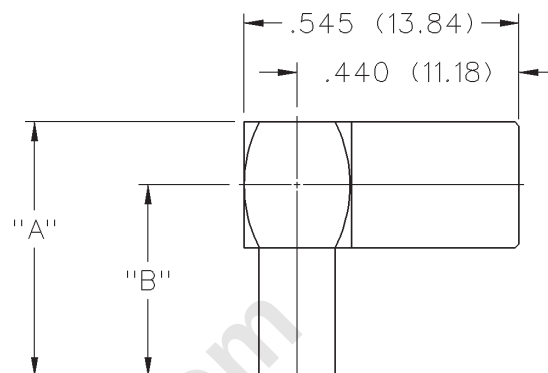
For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

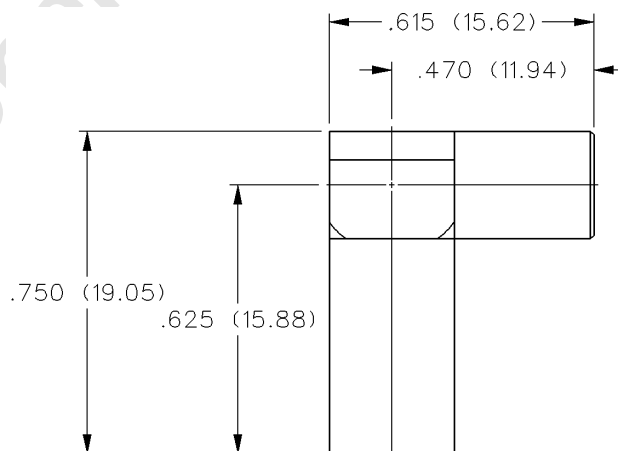
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED	"A"	"B"
RG-179, 187	131-8403-101	131-8403-106	.505 (12.83)	.380 (9.65)
RG-179 DS RG-187 DS	131-8404-101	131-8404-106	.505 (12.83)	.380 (9.65)
Belden 735A	131-8445-101	131-8445-106	.750 (19.05)	.625 (15.88)

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

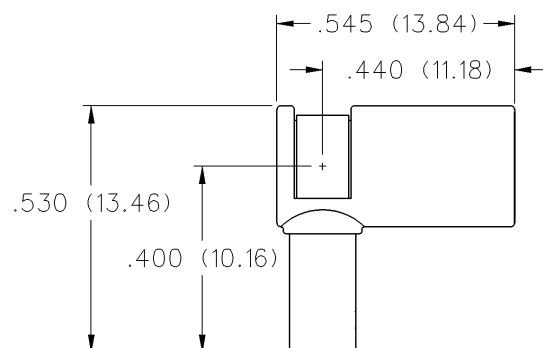
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-59	131-8409-101	131-8409-106

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

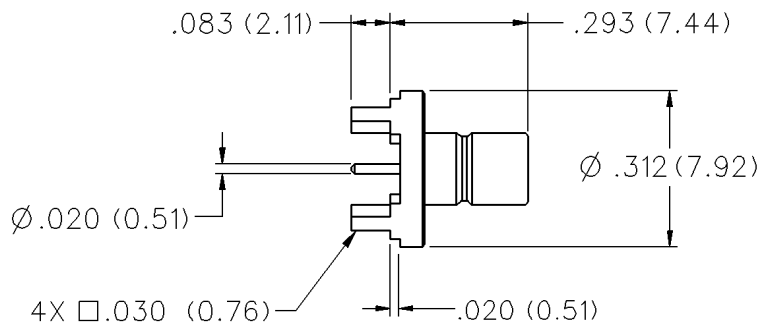
Right Angle Crimp Type Plug - Captivated Contact - Die Cast



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-179, 187	131-8403-111	131-8403-116
RG-179 DS RG-187 DS	131-8404-111	131-8404-116

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

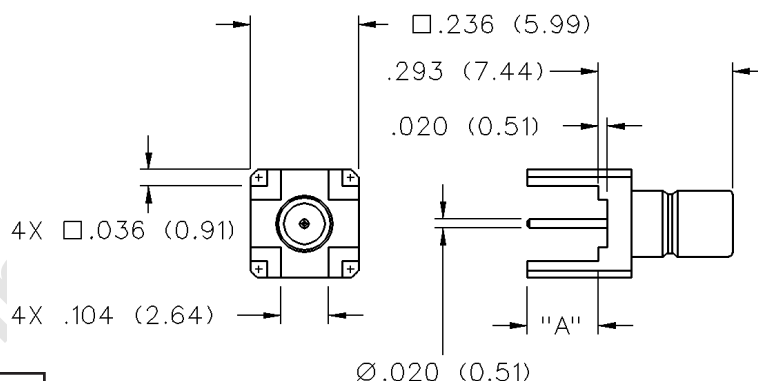
Straight Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-8701-201	131-8701-206

Mounting hole layout figure 7 page 201.

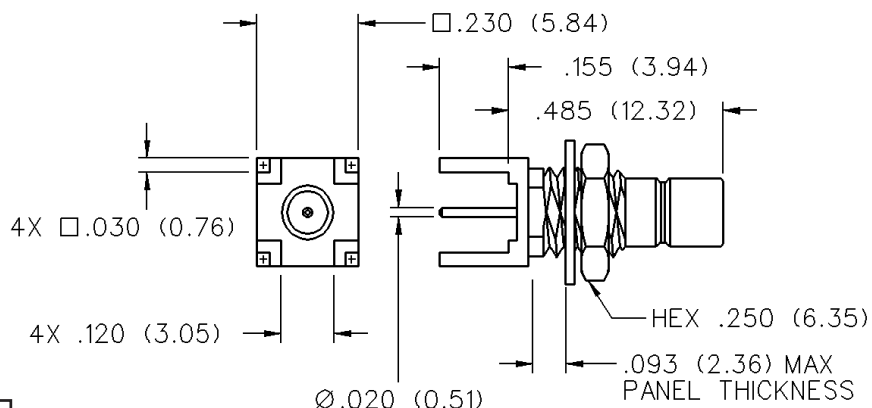
Straight Jack Receptacle



GOLD PLATED	NICKEL PLATED	"A"
131-8701-251	131-8701-256	.155 (3.94)
131-8701-261	131-8701-266	.095 (2.41)

Mounting hole layout figure 7 page 201.

Straight Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-8701-211	131-8701-216

Mounting hole layout figures 5 and 7 page 201.

Mini-75 Ohm SMB Connectors

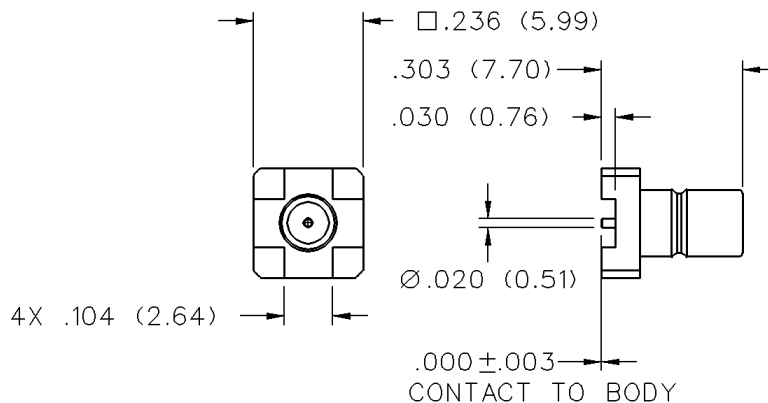
PC Mount

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



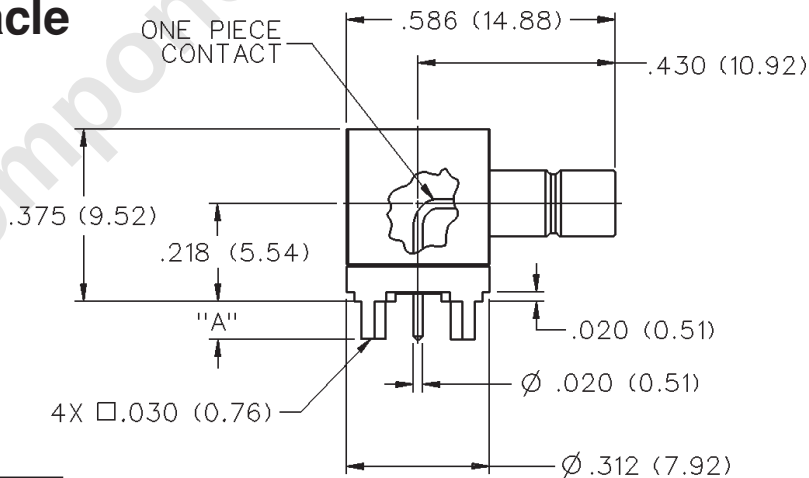
Straight Jack Receptacle - Surface Mount



GOLD PLATED	"PACKAGING"
131-8711-201	Stock
131-8711-202	Tape and Reel 750 pcs/reel

Recommended land pattern figure 13 page 202.

Right Angle Jack Receptacle



GOLD PLATED	NICKEL PLATED	"A"
131-8701-301	131-8701-306	.083
131-8701-311	131-8701-316	.125

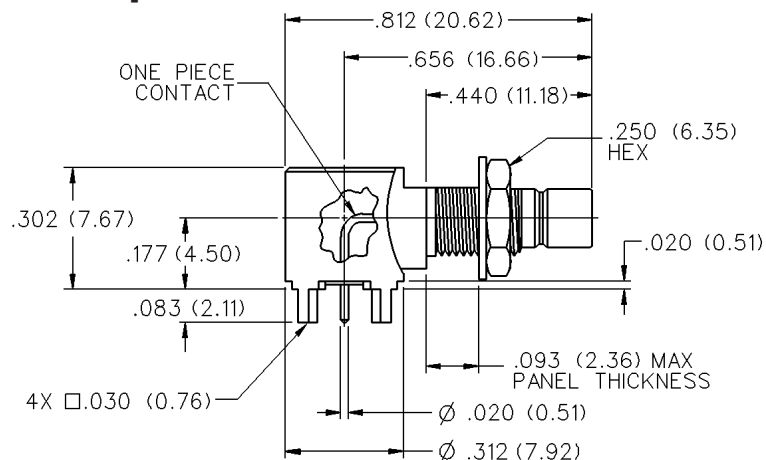
Mounting hole layout figure 7 page 201.

Right Angle Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-8701-501	131-8701-506

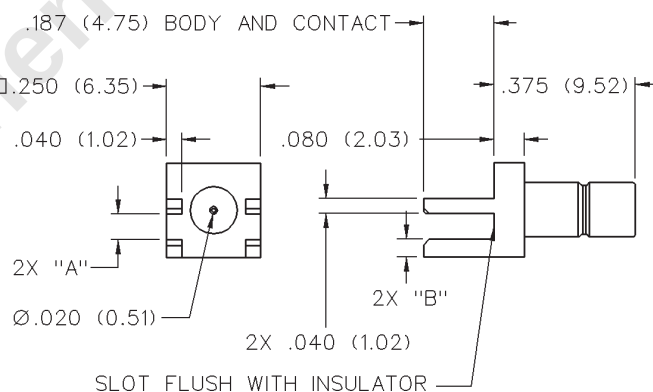
Mounting hole layout figures 5 and 7 page 201.



End Launch Jack Receptacle



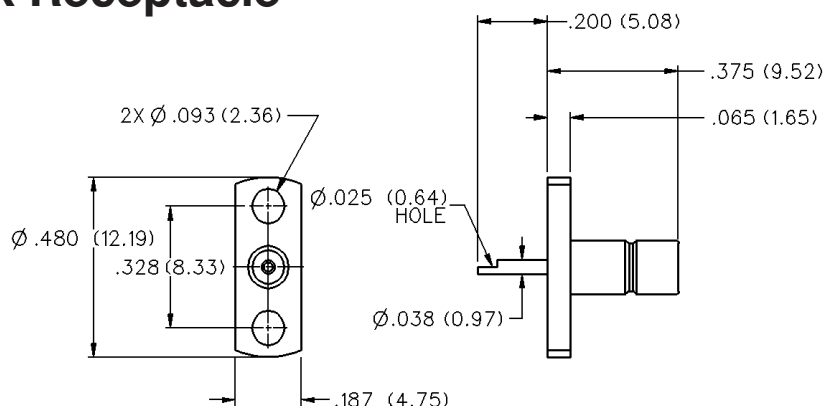
NICKEL PLATED	GOLD PLATED	BOARD THICKNESS	"A"	"B"
131-8701-846	131-8701-841	.062 (1.57)	.068 (1.73)	.047 (1.19)



2-Hole Flange Mount Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-8701-601	131-8701-606



Mini-75 Ohm SMB Connectors

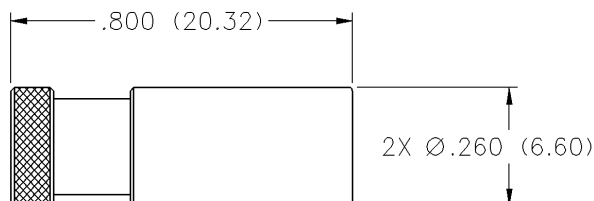
onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



Terminations

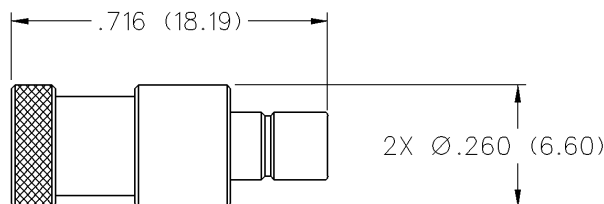
INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

Plug Precision Load



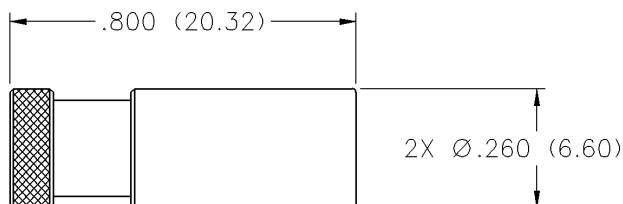
VSWR & FREQ. RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-2GHz	131-8801-801

Jack Precision Load



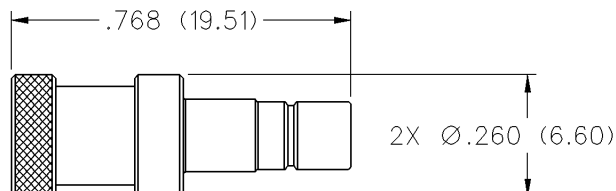
VSWR & FREQ. RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-2GHz	131-8701-801

Matched Plug Open and Short



TERMINATION	GOLD PLATED
OPEN	131-8801-821
SHORT	131-8801-811

Matched Jack Open and Short



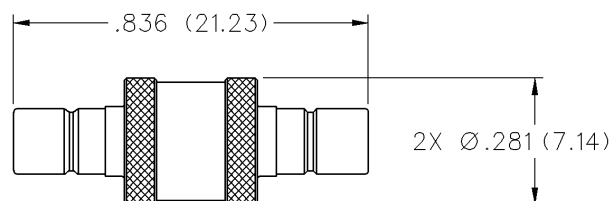
TERMINATION	GOLD PLATED
OPEN	131-8701-821
SHORT	131-8701-811

Jack to Jack Adapter



GOLD PLATED

131-8901-801

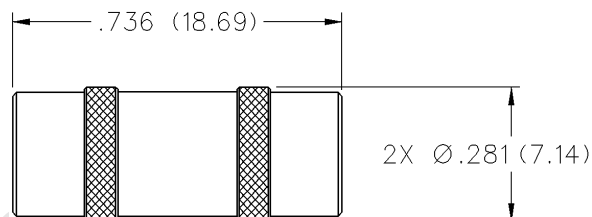


Plug to Plug Adapter



GOLD PLATED

131-8901-811

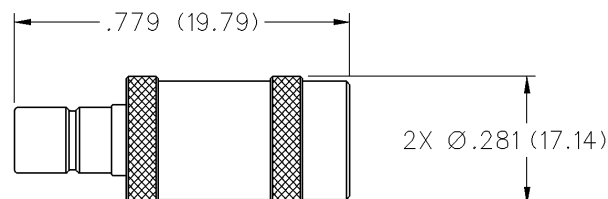


Jack to Plug Adapter



GOLD PLATED

131-8901-821



Jack to Bulkhead Jack* Adapter

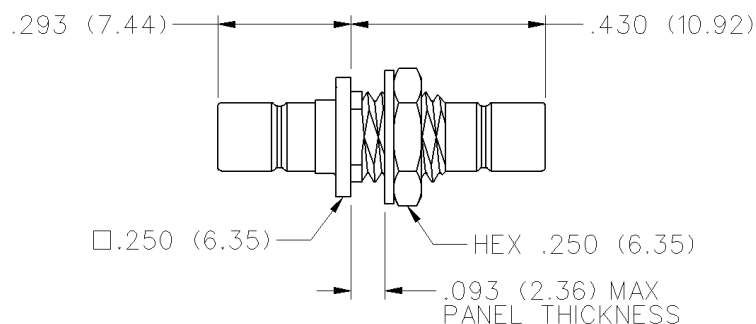


GOLD PLATED

131-8901-401

NICKEL PLATED

131-8901-406



Mounting hole layout figure 5 page 201.

* Electrical length not matched to other adapters shown.

Mini-75 Ohm SMB Connectors

Between-Series Adapters

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

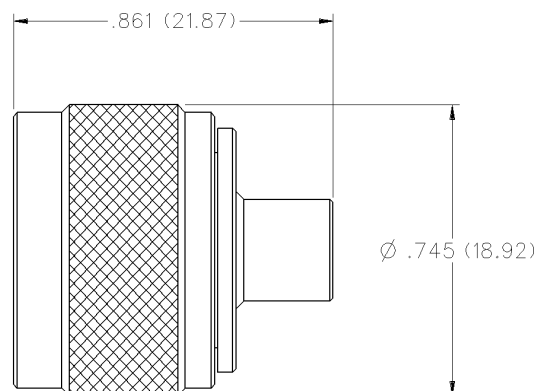
EMERSON
Network Power

75 Ohm Type N Plug to Mini-75 Ohm SMB Plug Adapter



STAINLESS STEEL PASSIVATED

134-1069-001

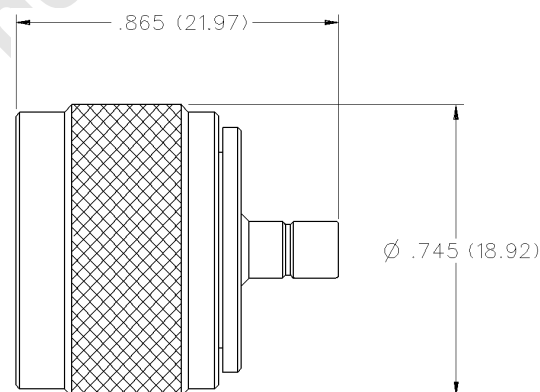


75 Ohm Type N Plug to Mini-75 Ohm SMB Jack Adapter

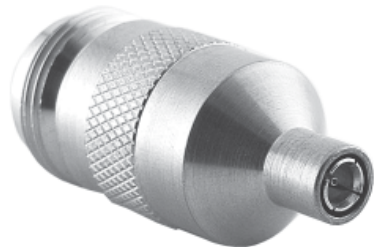


STAINLESS STEEL PASSIVATED

134-1069-011

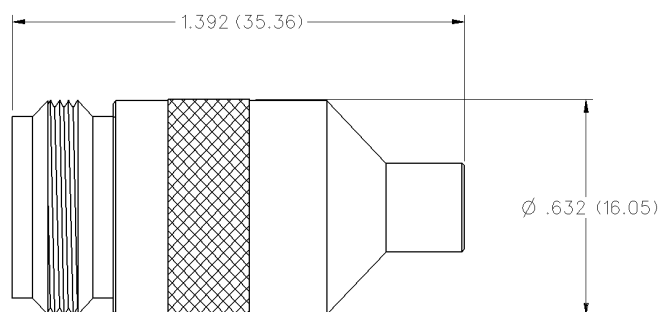


75 Ohm Type N Jack to Mini-75 Ohm SMB Plug Adapter



STAINLESS STEEL PASSIVATED

134-1069-021

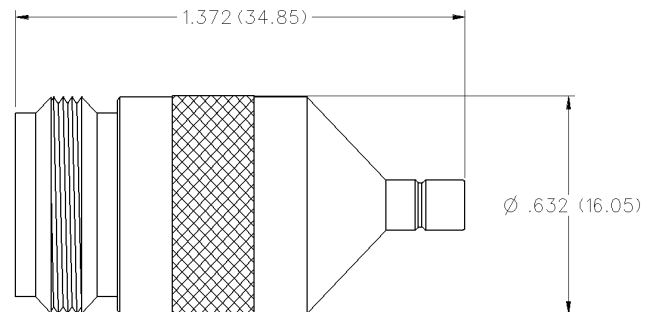


75 Ohm Type N Jack to Mini-75 Ohm SMB Jack Adapter

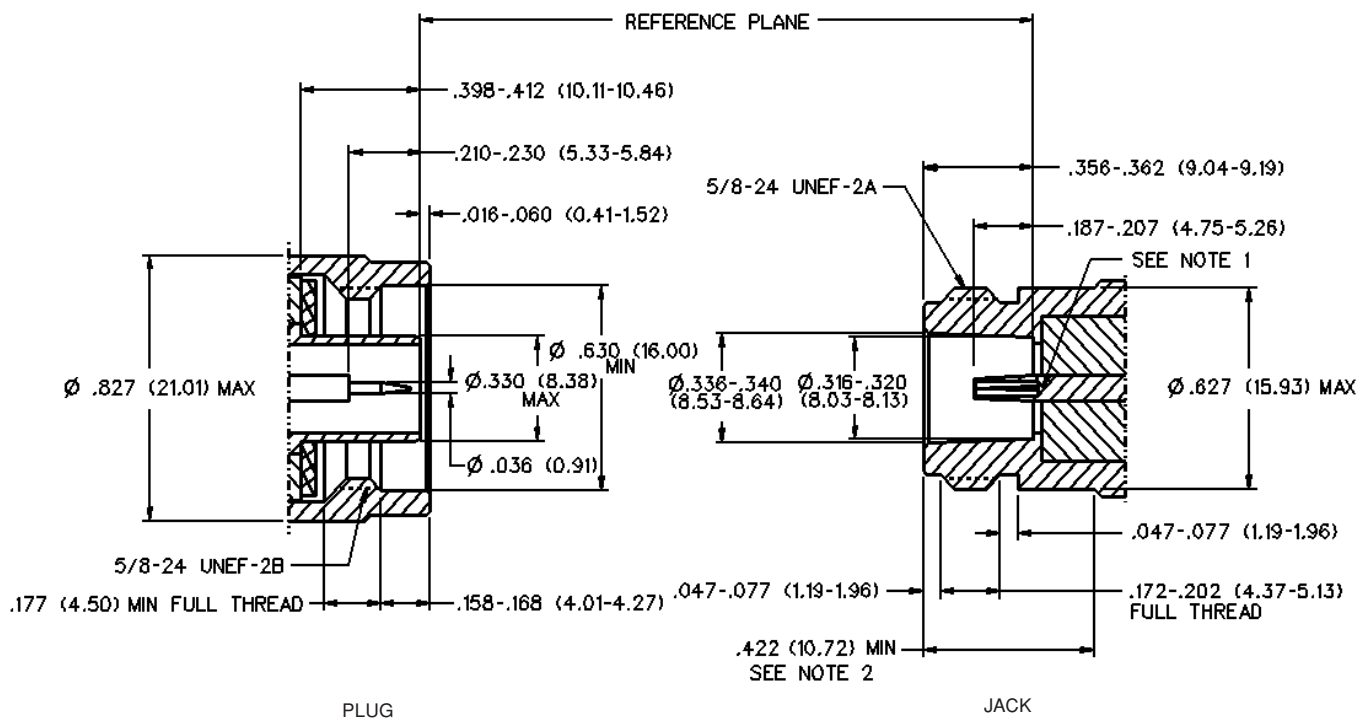


STAINLESS STEEL PASSIVATED

134-1069-031



Mating Engagement for 75 Ohm "N" Series



NOTES:

1. ID of contact to meet VSWR, mating characteristics and connector durability when mated with a dia .036/.037 (0.91/0.94) male contact.
2. Clearance for mating connector coupling nut.

Mini-75 Ohm SMB Connectors

Standards Kit

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS


EMERSON
Network Power

Mini-75 Ohm SMB Standards* (Calibration) Kit



The Mini-75 Ohm Standards Kit contains precision terminations and adapters necessary for calibrating scalar and vector network analyzers from DC to 2 GHz. Kit includes standards definition data sheet.

PART NUMBER
131-8000-001

CONTENTS	PART NUMBER
Load, 75 Ohm SMB Jack	131-8701-801
Short, 75 Ohm SMB Jack	131-8701-811
Open, 75 Ohm SMB Jack	131-8701-821
Load, 75 Ohm SMB Plug	131-8801-801
Short, 75 Ohm SMB Plug	131-8801-811
Open, 75 Ohm SMB Plug	131-8801-821
Adapter, 75 Ohm SMB Jack to 75 Ohm SMB Jack	131-8901-801
Adapter, 75 Ohm SMB Plug to 75 Ohm SMB Plug	131-8901-811
Adapter, 75 Ohm SMB Plug to 75 Ohm SMB Jack	131-8901-821
Adapter, 75 Ohm Type N Plug to 75 Ohm SMB Plug	134-1069-001
Adapter, 75 Ohm Type N Plug to 75 Ohm SMB Jack	134-1069-011
Adapter, 75 Ohm Type N Jack to 75 Ohm SMB Plug	134-1069-021
Adapter, 75 Ohm Type N Jack to 75 Ohm SMB Jack	134-1069-031

Compatibility

The Johnson Mini-75 Ohm SMB series is a “true” 75 Ohm impedance connector line. These connectors mechanically intermate with MIL-C-39012 50 Ohm SMB connectors.

* Conformity Data

Kit is certified to meet Johnson performance specifications. Performance data is available upon request. Kit is not National Institute of Standards (NIST) traceable.

SMC Connectors - 50 Ohm

PC Mount	119
Semi-Rigid and Flexible Cable	117
Specifications	116

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

SMC - 50 Ohm Connectors

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-10 GHz

VSWR: (f = GHz)	Straight Cabled	Right Angle Cabled
RG-178 cable	1.25 + .04f	1.40 + .06f
RG-316 and .086 Semi-Rigid cable	1.20 + .04f	1.30 + .04f
Uncabled receptacles	N/A	
Adapters	1.20 + .04f	

Working Voltage: (VRMS maximum)[†]

Connectors for Cable Type	Sea Level	70K Feet
RG-178	250	60
RG-316, .086 Semi-Rigid		

uncabled receptacles, adapters 335 85

Dielectric Withstanding Voltage: (VRMS minimum at sea level)[†]

Connectors for RG-178	750
Connectors for RG-316, .086 Semi-Rigid	
uncabled receptacles, adapters	1000

Corona Level: (Volts minimum at 70,000 feet)[†]

Connectors for RG-178	185
Connectors for RG-316, .086 Semi-Rigid	250
Uncabled receptacles and adapters	N/A

Insertion Loss: (dB maximum, tested at 4 GHz)

Straight cable connectors	0.25 dB
Right angle cable connectors	0.50 dB
Uncabled receptacles and adapters	N/A

Insulation Resistance: 1000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact (straight cabled connectors and uncabled receptacles)	6.0	8.0
Center contact (right angle cabled connectors and adapters)	12.0	16.0
Outer contact (gold plated connectors)	1.0	N/A
Outer contact (nickel plated connectors)	2.5	N/A
Braid to body (gold plated connectors)	1.0	N/A
Braid to body (nickel plated connectors)	2.5	N/A

RF Leakage: (dB minimum tested at 2.5 GHz)

Cable connectors	-55 dB
Uncabled receptacles and adapters	N/A

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

† Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

RF High Potential Withstanding Voltage: (VRMS minimum, tested at 4 and 7 MHz)[†]

Connectors for RG-178	500
Connectors for RG-316	700
Uncabled receptacles and adapters	600

MECHANICAL RATINGS

Engagement Design: MIL-PRF-39012, Series SMC

Engagement/Disengagement Force: 16 inch-ounce maximum torque

Mating Torque: 35 to 50 inch-ounce

Coupling Proof Torque: 100 inch-ounce minimum

Coupling Nut Retention: 35 pounds minimum

Contact Retention: 4 lbs. minimum axial force (captivated contacts)
1 inch-ounce minimum torque (uncabled receptacles)

Cable Retention:	Axial Force* (lbs)	Torque (in-oz)
Connectors for RG-178	10	N/A
Connectors for RG-316	20	N/A
Connectors for .086 Semi-Rigid	30	16

* or cable breaking strength whichever is less

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-210, Method 213, Condition C

Vibration: MIL-STD-202, Method 204, Condition D

MATERIAL SPECIFICATIONS

Bodies: Brass per QQ-B-626, gold plated** per MIL-G-45204 .00001" min or nickel plated per QQ-N-290

Contacts: Male - brass per QQ-B-626, gold plated per MIL-G-45204 .00003" min.

Female - beryllium copper per QQ-C-530, gold plated per MIL-G-45204 .00003" min.

Nut Retention Spring: Beryllium copper per QQ-C-533, unplated

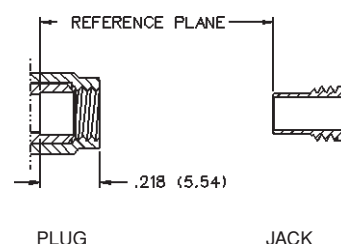
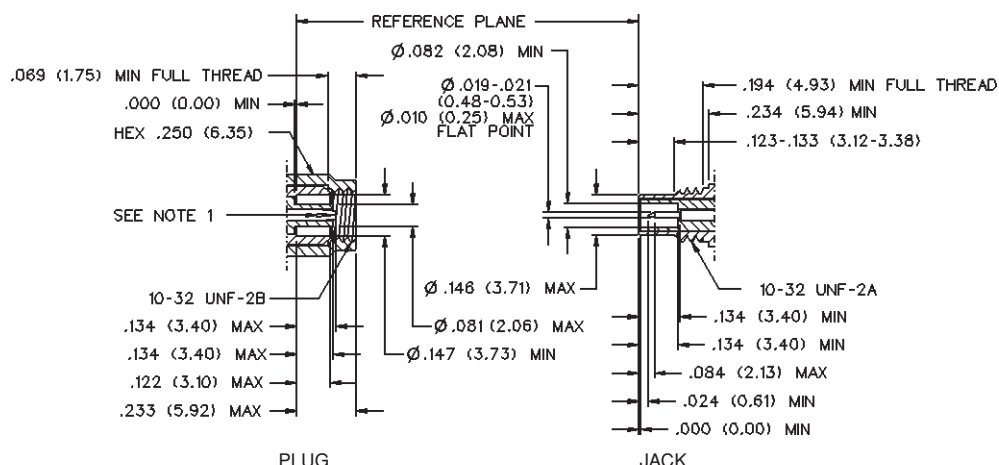
Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Expansion Caps: Brass per QQ-B-613, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Crimp Sleeves: Copper per WW-T-799, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

Mounting Hardware: Brass (nuts) per QQ-B-626 or phosphor bronze (lockwashers) per QQ-B-750, gold plated per MIL-G-45204 .00001" min. or nickel plated per QQ-N-290

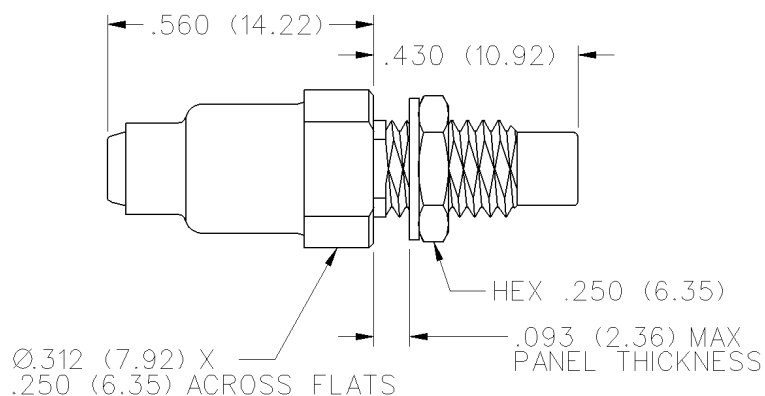
Mating Engagement for SMC Series



NOTES

1. Inside of contact to meet VSWR, mating characteristics and connector durability when mated with a dia .019/.021 (0.48/0.53) male contact.

Straight Solder Type Bulkhead Jack - Captivated Contact

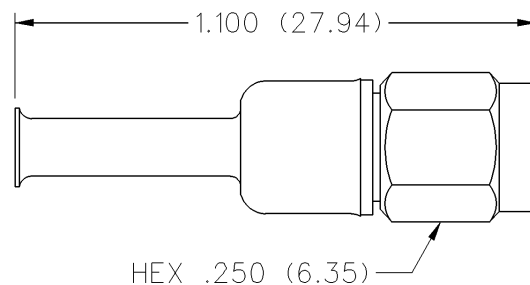


CABLE TYPE	GOLD PLATED	NICKEL PLATED
.086 Semi-Rigid	131-6593-401	131-6593-406

Assembly instructions page 237.

Mounting hole layout figure 5 page 201.

Straight Crimp Type Plug - Captivated Contact

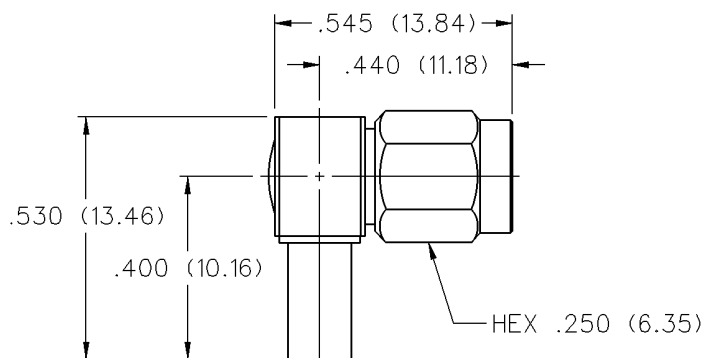


CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 188, 316	131-6403-001	131-6403-006
RG-316 DS, 188 DS	131-6404-001	131-6404-006
RG-179/U, 187	131-6433-001	131-6433-006

Assembly instructions page 239.

See page 190 for Cable Assembly Tools.

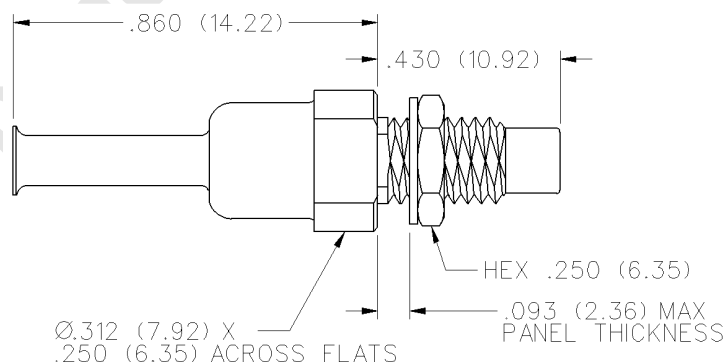
Right Angle Crimp Type Plug - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 188, 316	131-6403-101	131-6403-106
RG-316 DS, 188 DS	131-6404-101	131-6404-106
RG-179/U, 187	131-6433-101	131-6433-106

Assembly instructions page 240.
See page 190 for Cable Assembly Tools.

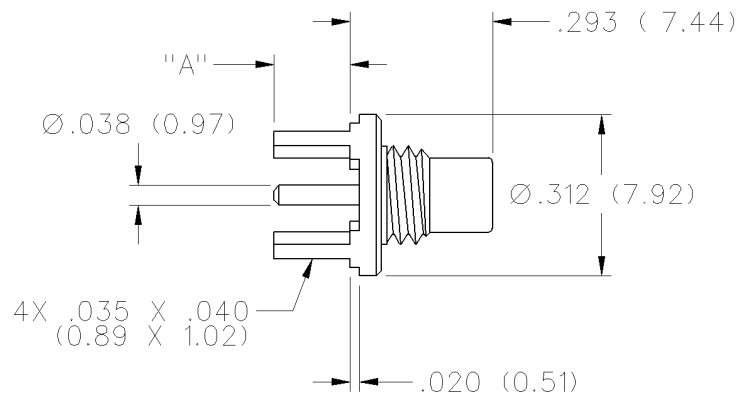
Straight Crimp Type Bulkhead Jack - Captivated Contact



CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 188, 316	131-6303-401	131-6303-406
RG-316 DS, 188 DS	131-6304-401	131-6304-406
RG-179/U, 187	131-6333-401	131-6333-406

Assembly instructions page 239.
See page 190 for Cable Assembly Tools.
Mounting hole layout figure 5 page 201.

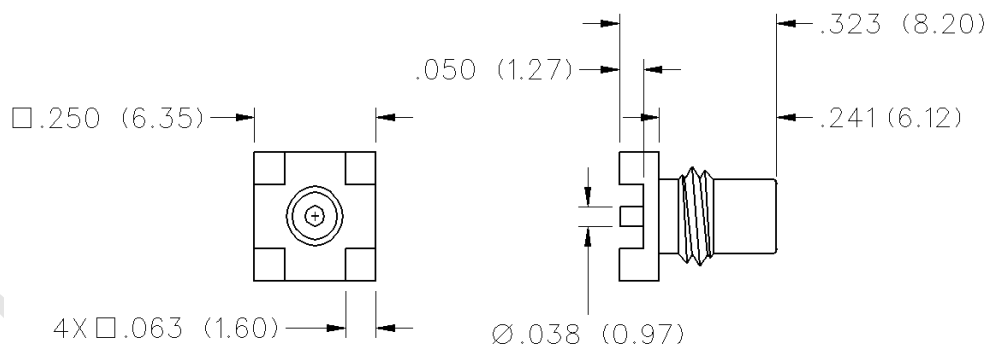
Straight Jack Receptacle



GOLD PLATED	NICKEL PLATED	IR COMPATIBLE*	"A"
131-6701-201	131-6701-206		.155 (3.94)
131-6701-211	131-6701-216	131-6701-215*	.110 (2.79)

*Tin/Lead Solder dipped legs for IR Reflow Compatibility.
Mounting hole layout figure 4 page 201.

Straight Jack Receptacle - Surface Mount



GOLD PLATED
131-6711-201

Recommended Land Pattern figure 9 page 201.

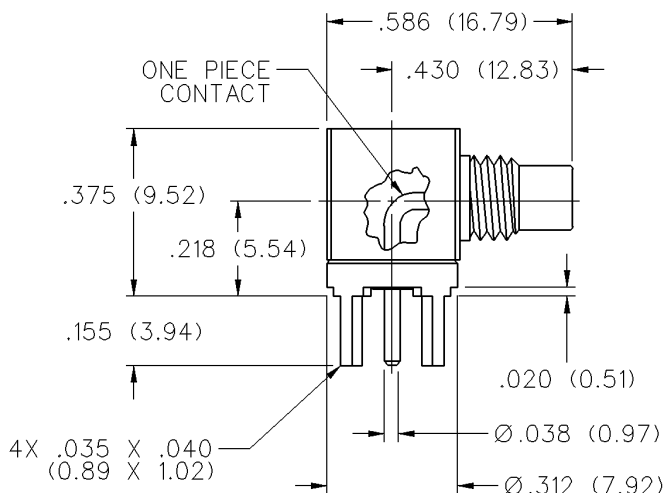
Right Angle Jack Receptacle



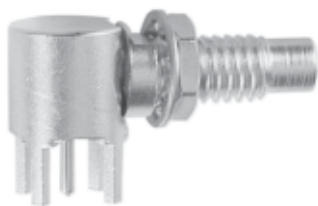
GOLD PLATED

131-6701-301

Mounting hole layout figure 4 page 201.



Right Angle Bulkhead Jack Receptacle



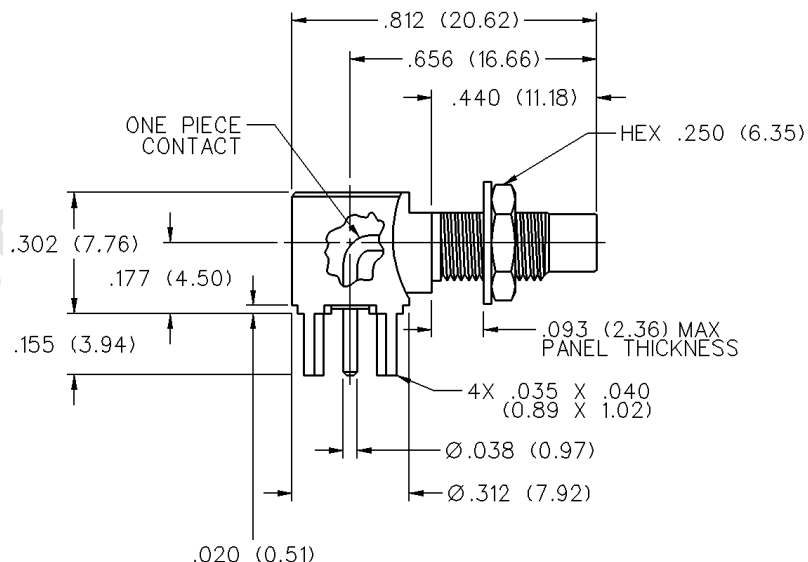
GOLD PLATED

131-6701-341

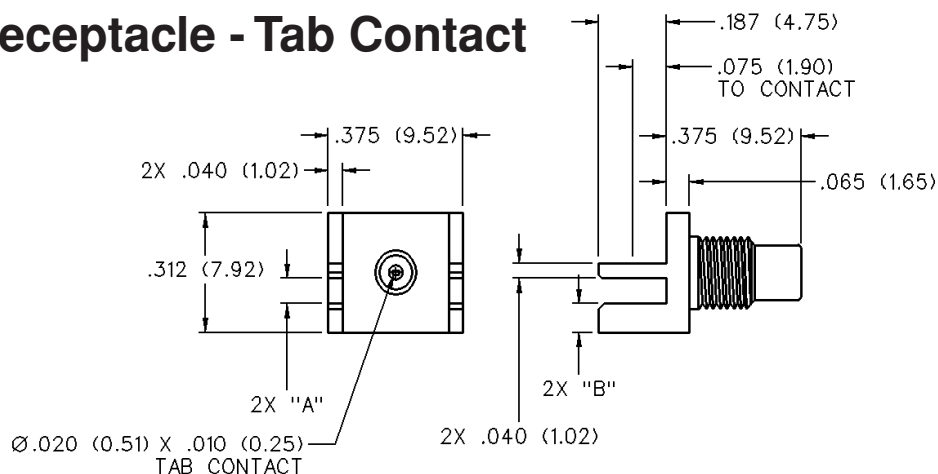
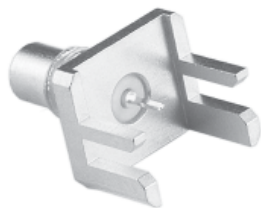
NICKEL PLATED

131-6701-346

Mounting hole layout figures 4 and 5 page 201.

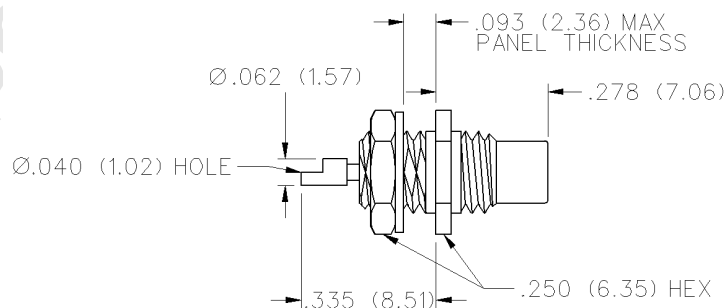


End Launch Jack Receptacle - Tab Contact



GOLD PLATED	NICKEL PLATED	BOARD THICKNESS	"A"	"B"
131-6701-831	131-6701-836	.062 (1.57)	.068 (1.73)	.083 (2.11)

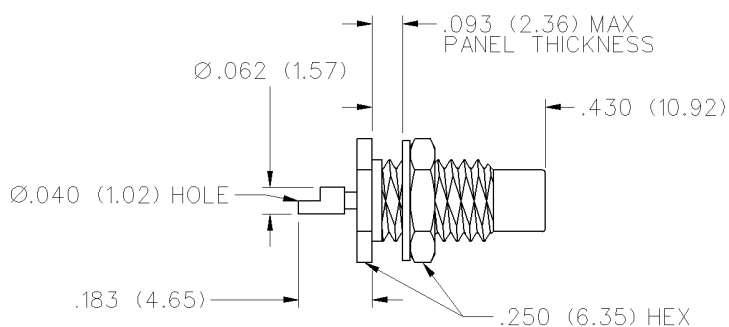
Front Mount Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-6701-411	131-6701-416

Mounting hole layout figure 5 page 201.

Rear Mount Bulkhead Jack Receptacle



GOLD PLATED	NICKEL PLATED
131-6701-401	131-6701-406

Mounting hole layout figure 5 page 201.

Shielded Cable Termination

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Alphabetical Index

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST



Shielded Cable Termination

End Launch Mount	124
PC Mount	123

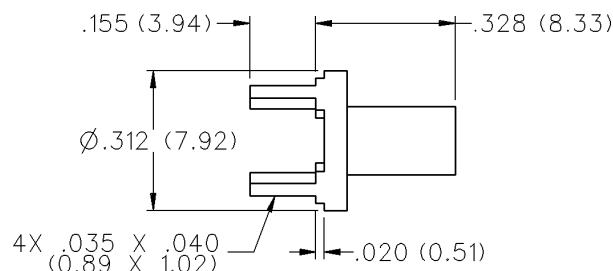
Shielded Test Jacks

Horizontal and Vertical	125
-------------------------------	-----

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

Flexible Cable - Straight Crimp Type

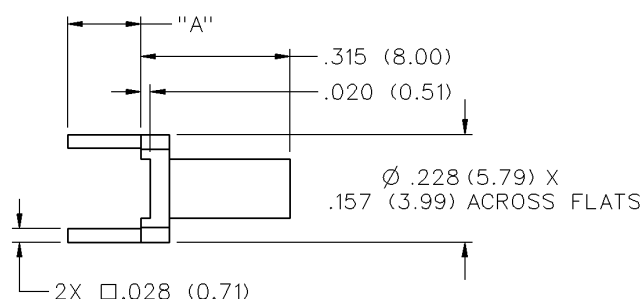


CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	142-0003-201	142-0003-206
RG-316 DS, RG-188 DS	142-0004-201	142-0004-206

Assembly instructions page 242.

Mounting hole layout figure 3 page 201.

Flexible Cable - Straight Crimp Type

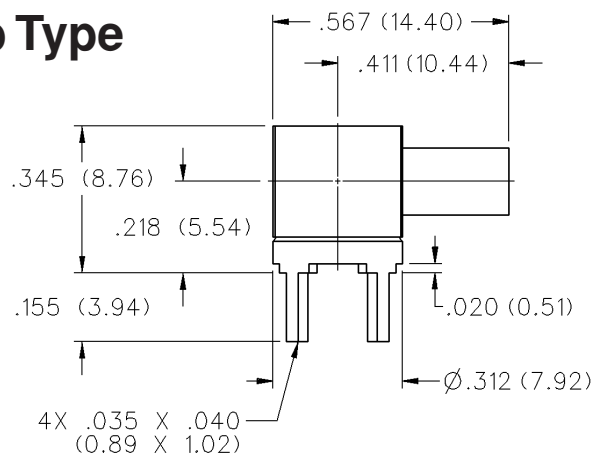


CABLE TYPE	GOLD PLATED	NICKEL PLATED	"A"
RG-178/U, 196	142-0002-221	142-0002-226	.110 (2.79)
RG-316/U, 188,	142-0003-231	142-0003-236	.155 (3.94)
174, 161, 179, 187	142-0003-241	142-0003-246	.110 (2.79)
RG-316 DS,	142-0004-211	142-0004-216	.155 (3.94)
188 DS	142-0004-221	142-0004-226	.110 (2.79)

Assembly instructions page 242.

Mounting hole layout figure 16 page 202.

Flexible Cable - Right Angle Crimp Type

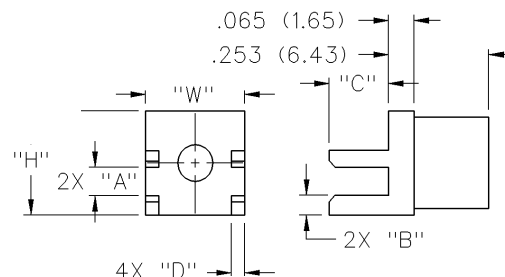


CABLE TYPE	GOLD PLATED	NICKEL PLATED
RG-161/U, 174, 179, 187, 188, 316	142-0003-301	142-0003-306
RG-316 DS, 188 DS	142-0004-301	142-0004-306

Assembly instructions page 243.

Mounting hole layout figure 3 page 201.

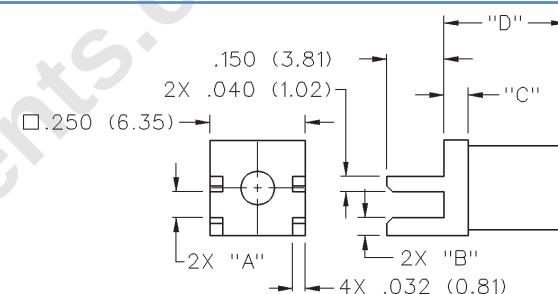
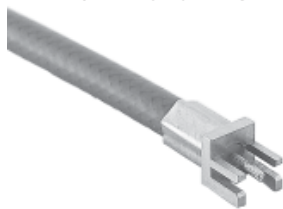
Semi-Rigid - Straight End Launch



CABLE TYPE	GOLD PLATED	BOARD THICKNESS	"A"	"B"	"C"	"D"	"H"	"W"
.086 Semi-Rigid	142-0093-801	0.062 (1.57)	0.068 (1.73)	0.046 (1.42)	0.150 (3.81)	0.032 (0.81)	0.250 (6.35)	0.250 (6.35)
.141 Semi-Rigid	142-0094-801	0.062 (1.57)	0.068 (1.73)	0.070 (1.78)	0.187 (4.77)	0.040 (1.02)	0.312 (7.92)	0.375 (9.52)
.250 Semi-Rigid	142-0096-801	0.062 (1.57)	0.068 (1.73)	0.053 (1.35)	0.187 (4.77)	0.050 (1.27)	0.312 (7.92)	0.375 (9.52)

Assembly instructions page 245. Cable Assembly Tools page 190.

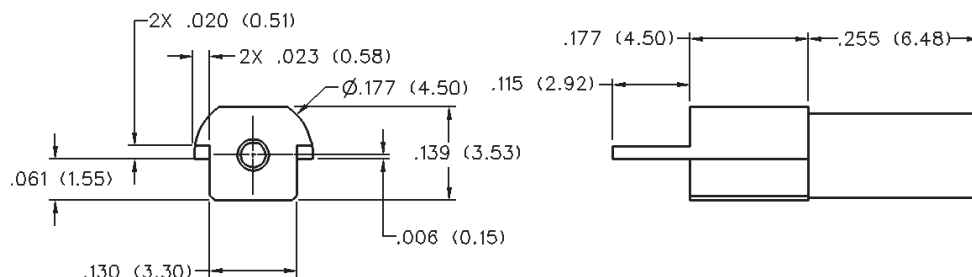
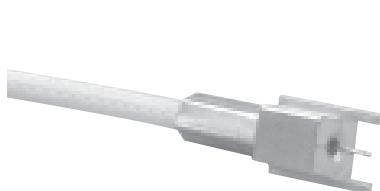
Flexible Cable - Straight Crimp Type End Launch



CABLE TYPE	GOLD PLATED	BOARD THICKNESS	"A"	"B"	"C"	"D"
RG-316/U, 188, 174, 161, 179, 187	142-0003-801	0.062 (1.57)	0.068 (1.73)	0.046 (1.02)	0.055 (1.40)	0.310 (7.87)
RG-316 DS, 188 DS, 179 DS, 187 DS	142-0004-801	0.062 (1.57)	0.068 (1.73)	0.046 (1.02)	0.065 (1.65)	0.320 (8.13)
RG-58/U, 141, 303	142-0007-801	0.062 (1.57)	0.068 (1.73)	0.037 (1.65)	0.065 (1.65)	0.320 (8.13)
RG-142/U, 55, 223, 400	142-0008-801	0.062 (1.57)	0.068 (1.73)	0.037 (1.65)	0.065 (1.65)	0.320 (8.13)
RG-178/U, 196	142-0002-811	0.047 (1.19)	0.053 (1.35)	0.065 (1.65)	0.065 (1.65)	0.320 (8.13)
RG-316/U, 188, 174, 161, 179, 187	142-0003-811	0.047 (1.19)	0.053 (1.35)	0.061 (1.55)	0.065 (1.65)	0.320 (8.13)
RG-316 DS, 188 DS, 179 DS, 187 DS	142-0004-811	0.047 (1.19)	0.053 (1.35)	0.061 (1.55)	0.065 (1.65)	0.320 (8.13)
RG-58/U, 141, 303	142-0007-811	0.047 (1.19)	0.053 (1.35)	0.052 (1.32)	0.065 (1.65)	0.320 (8.13)
RG-142/U, 55, 223, 400	142-0008-811	0.047 (1.19)	0.053 (1.35)	0.052 (1.32)	0.065 (1.65)	0.320 (8.13)

Assembly instructions page 244. Cable Assembly Tools page 190.

Flexible Cable - Straight Crimp Type Surface Mount End Launch



CABLE TYPE	GOLD PLATED
RG-178/U, 196	142-0002-821

Recommended land pattern figure 14 page 202.

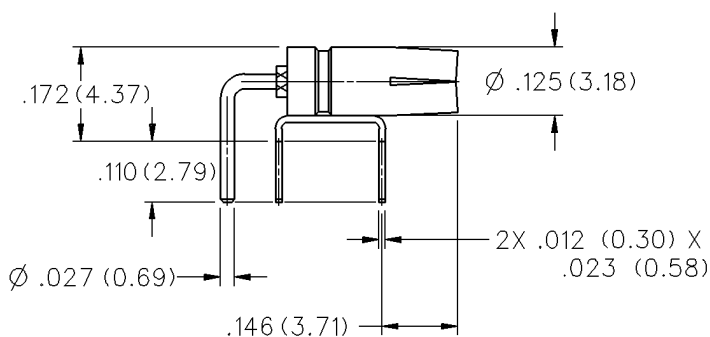
Assembly Instructions page 245.

Horizontal



TIN PLATED	GOLD PLATED
129-0701-301	129-0701-302

Mounting hole layout figure 18 page 202.

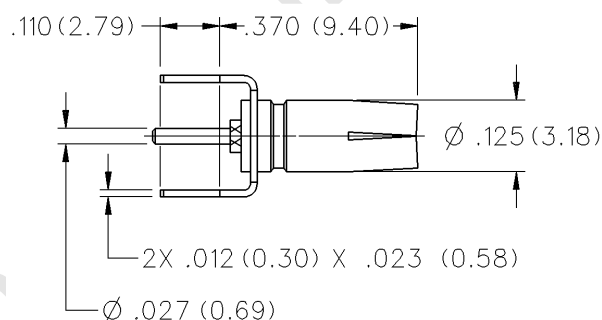


Vertical



TIN PLATED	GOLD PLATED
129-0701-201	129-0701-202

Mounting hole layout figure 17 page 202.



ELECTRICAL RATINGS

Impedance: 29 ohms
Frequency Range: 0 - 2 GHz
Working Voltage: 300 VRMS[†]
Dielectric Withstanding Voltage: 2000 VDC[†]
Contact Resistance: Center Contact: 6 milliohms
 Outer conductor: 2.5 milliohms

MECHANICAL RATINGS

Insertion Force: Inner conductor: 32 oz. max. 2 oz. min.
 Outer conductor: 48 oz. max. 6 oz. min.
Durability: 250 cycles

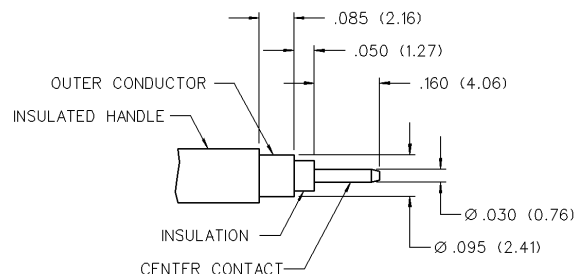
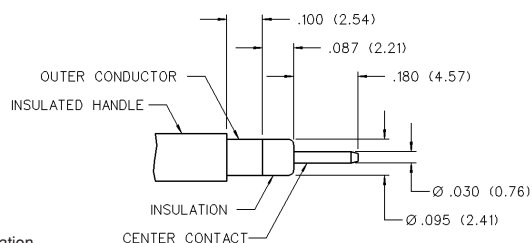
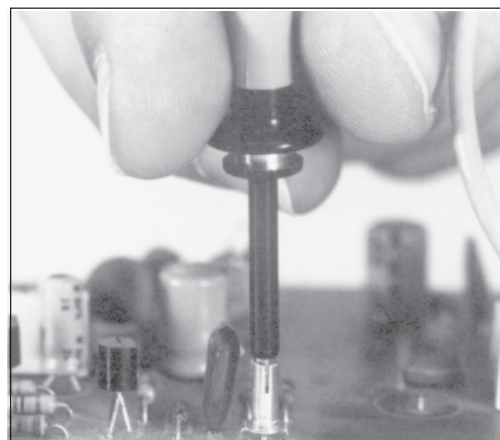
ENVIRONMENTAL RATINGS

Temperature Range: -65° C to + 85° C
Corrosion: Salt spray, 24 hours
Shock: Method 213, Test Condition B, MIL-STD-202
Vibration: Method 204, Test Condition B, MIL-STD-202

MATERIAL SPECIFICATIONS

Contact: Beryllium copper per QQ-C-533/530
Insulator Material: TFE Fluorocarbon per L-P-403
Finish: Center Contact and Body: Bright Tin or Gold

SHIELDED TEST JACK INTERFACE - TYPICAL PROBE TYPE



[†]Avoid user injury due to misapplication.
See safety advisory definitions inside front cover.

Between-Series Adapters

BNC to F, RCA and UHF	132
BNC to N	131
BNC to SMA	130
F to RCA and UHF, UHF to Mini-UHF	135
N to SMA and UHF	134
SMA to MCX	128
SMA to MMCX	129
SMA to SMB	127
TNC to SMA	133

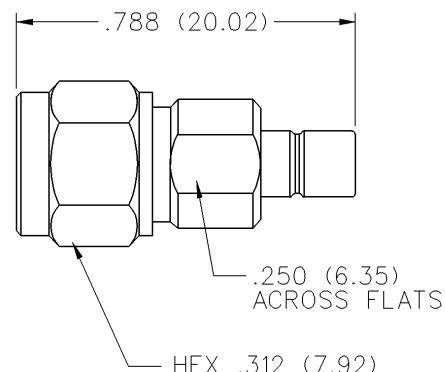
Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

SMA Plug to SMB Jack Adapter



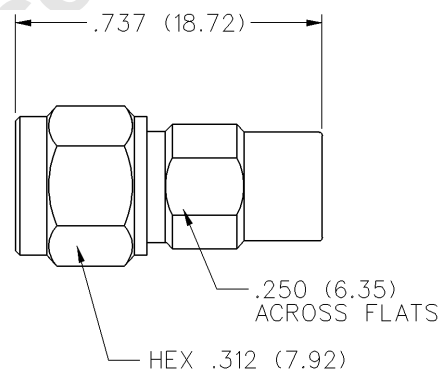
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-4 GHz	134-1012-011



SMA Plug to SMB Plug Adapter



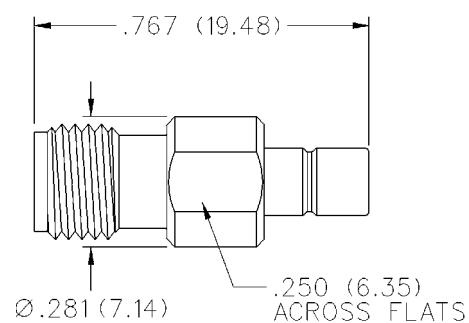
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-4 GHz	134-1012-021



SMA Jack to SMB Jack Adapter



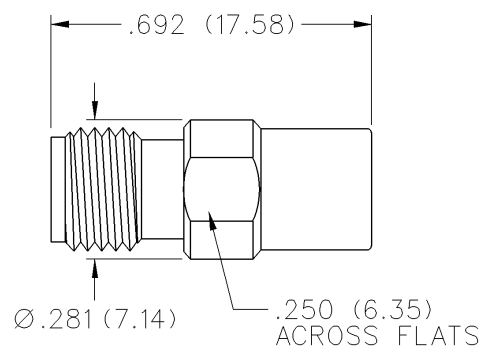
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-4 GHz	134-1012-031



SMA Jack to SMB Plug Adapter



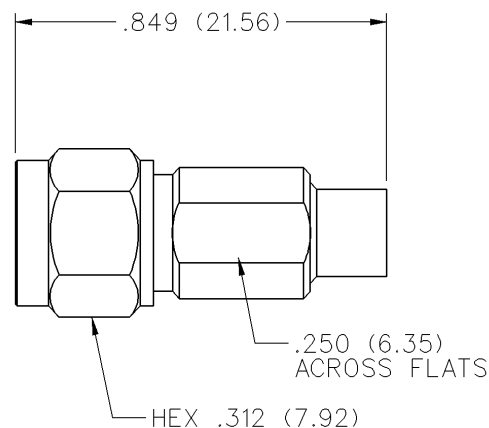
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .01f (GHz) 0-4 GHz	134-1012-041



SMA Plug to MCX Jack Adapter



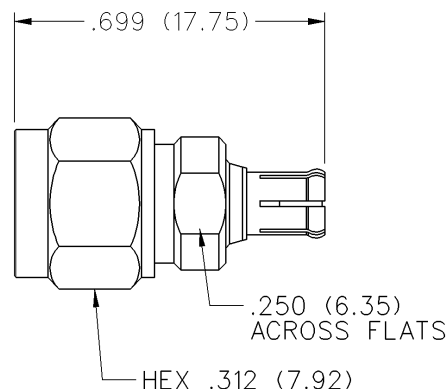
VSWR & FREQUENCY RANGE	GOLD PLATED
1.03 + .03f (GHz) 0-6 GHz	134-1018-001



SMA Plug to MCX Plug Adapter



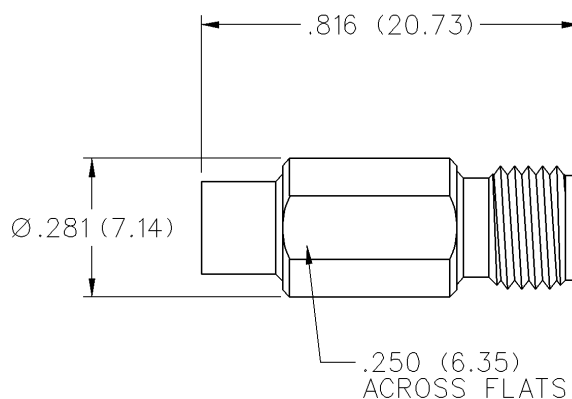
VSWR & FREQUENCY RANGE	GOLD PLATED
1.03 + .03f (GHz) 0-6 GHz	134-1018-011



SMA Jack to MCX Jack Adapter



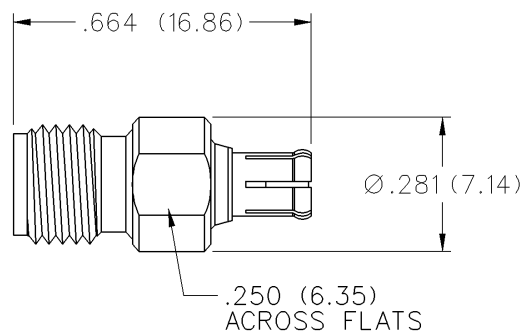
VSWR & FREQUENCY RANGE	GOLD PLATED
1.03 + .03f (GHz) 0-6 GHz	134-1018-021



SMA Jack to MCX Plug Adapter



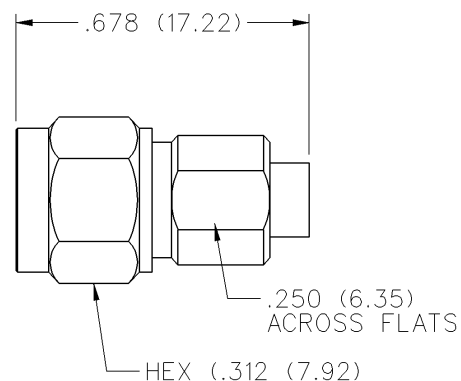
VSWR & FREQUENCY RANGE	GOLD PLATED
1.03 + .03f (GHz) 0-6 GHz	134-1018-031



SMA Plug to MMCX Jack Adapter



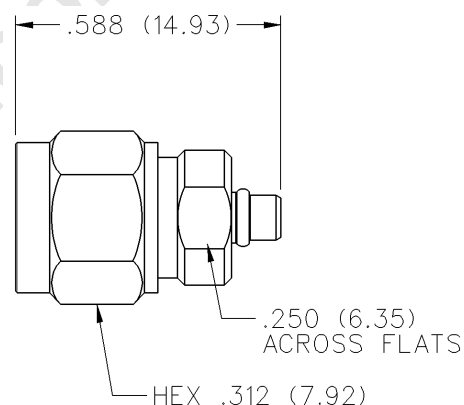
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .05f (GHz) 0-6 GHz	134-1019-151



SMA Plug to MMCX Plug Adapter



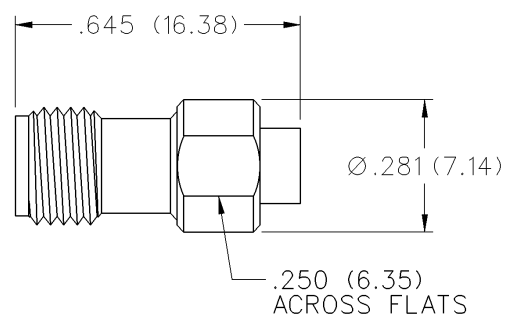
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .05f (GHz) 0-6 GHz	134-1019-161



SMA Jack to MMCX Jack Adapter



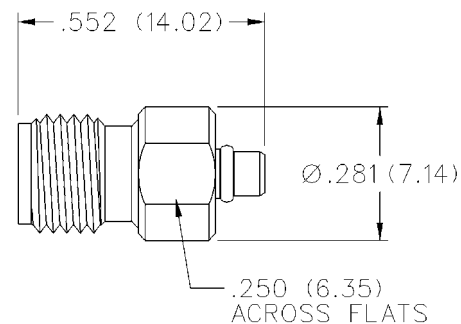
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .05f (GHz) 0-6 GHz	134-1019-171



SMA Jack to MMCX Plug Adapter



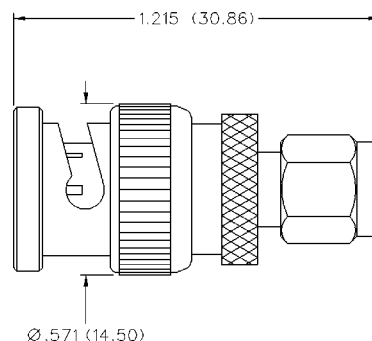
VSWR & FREQUENCY RANGE	GOLD PLATED
1.05 + .05f (GHz) 0-6 GHz	134-1019-181



BNC Plug to SMA Plug Adapter

PART NO.

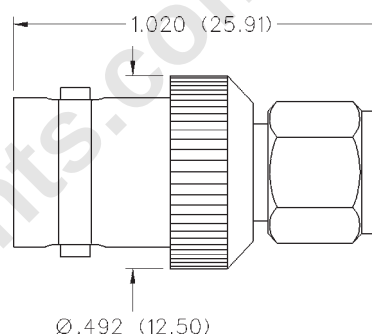
CP-AD582



BNC Jack to SMA Plug Adapter

PART NO.

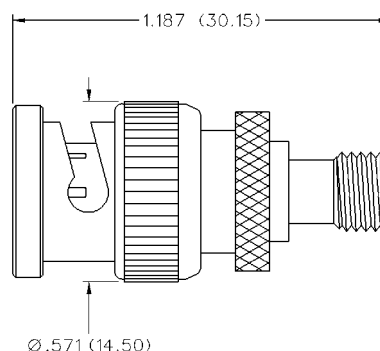
CP-AD508



BNC Plug to SMA Jack Adapter

PART NO.

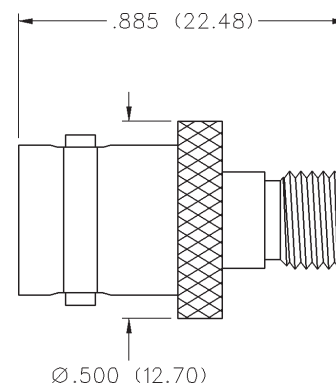
CP-AD583



BNC Jack to SMA Jack Adapter

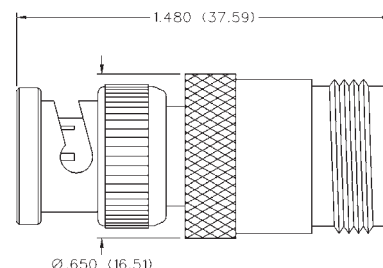
PART NO.

CP-AD507



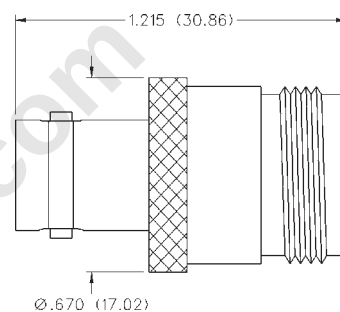
BNC Plug to N Jack Adapter

PART NO.
CP-AD807



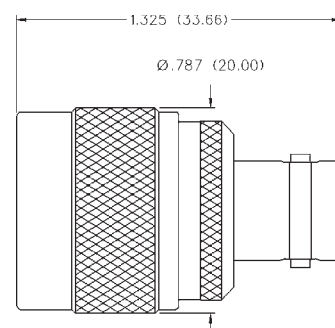
BNC Jack to N Jack Adapter

PART NO.
CP-AD806



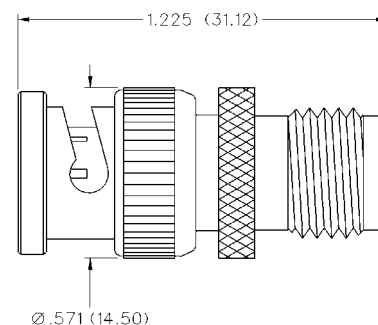
BNC Jack to N Plug Adapter

PART NO.
CP-AD809



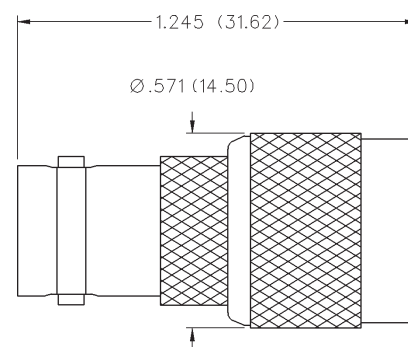
BNC Plug to TNC Jack Adapter

PART NO.
CP-AD314



BNC Jack to TNC Plug Adapter

PART NO.
CP-AD300



Between-Series Adapters

onlinecomponents.com

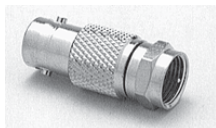
BNC to F, RCA and UHF

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

EMERSON
Network Power

BNC to F

BNC Jack to F Plug Adapter



CP-AD502

BNC Plug to F Jack Adapter



CP-AD516

BNC to RCA

BNC Jack to RCA Plug Adapter



CP-AD501

BNC 50 Ohm Plug to RCA Jack Adapter



CP-AD515

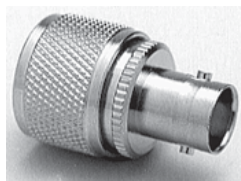
BNC 75 Ohm Plug to RCA Jack Adapter



CP-AD517

BNC to UHF

BNC Jack to UHF Plug Adapter



CP-AD500

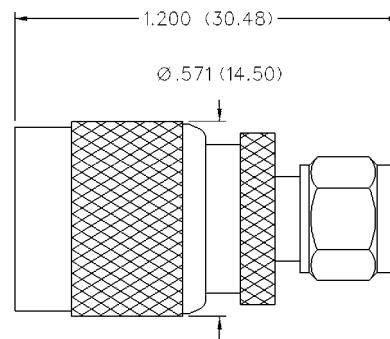
BNC Plug to UHF Jack Adapter



CP-AD512

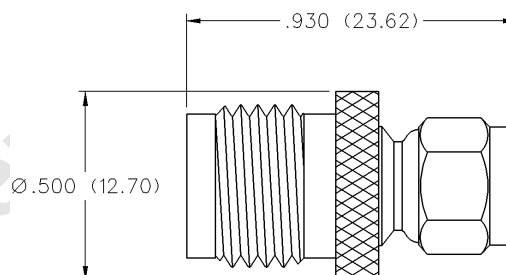
TNC Plug to SMA Plug Adapter

PART NO.
CP-AD311



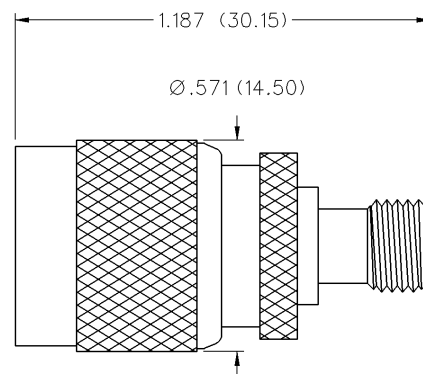
TNC Jack to SMA Plug Adapter

PART NO.
CP-AD312



TNC Plug to SMA Jack Adapter

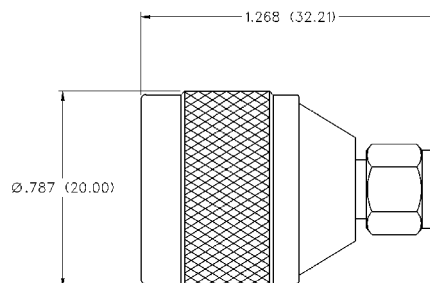
PART NO.
CP-AD313



N Plug to SMA Plug Adapter

PART NO.

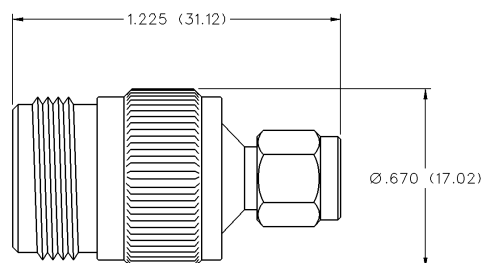
CP-AD817



N Jack to SMA Plug Adapter

PART NO.

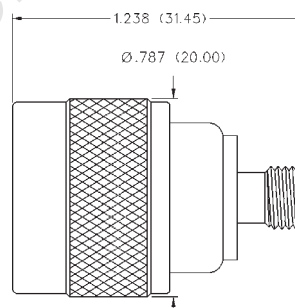
CP-AD818



N Plug to SMA Jack Adapter

PART NO.

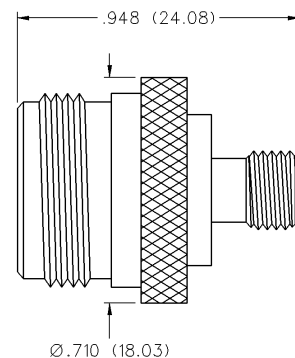
CP-AD810



N Jack to SMA Jack Adapter

PART NO.

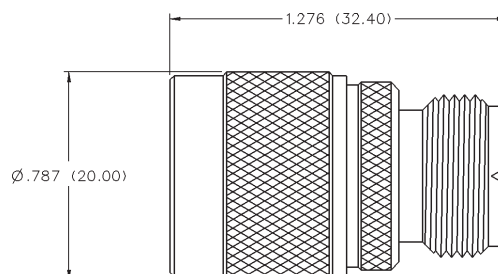
CP-AD819



N Plug to UHF Jack Adapter

PART NO.

CP-AD808



F to RCA

F Jack to RCA Plug Adapter



CP-AD103

F to UHF

F Jack to UHF Plug Adapter



CP-AD218

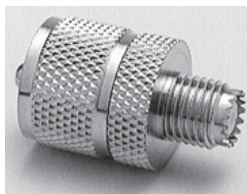
UHF to Mini-UHF

UHF Jack to Mini-UHF Plug Adapter



CP-AD214

UHF Plug to Mini-UHF Jack Adapter



CP-AD219

BNC Connectors - 50 Ohm

Bulkhead and Panel Mount	145
Flexible Cable	138
In-Series Adapters	146
Specifications	137

BNC Connectors - 75 Ohm Commercial

150

BNC Connectors - True 75 Ohm

158

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

The BNC series connector is a commercial quality product that intermates with all standard double bayonet stud BNC designs. All contacts are captivated for ruggedness. The 50 Ohm and 75 Ohm interfaces are intermateable and provide quick, reliable connections for instrumentation, medical and LAN applications.

Specifications*

50 Ohm BNC

Electrical Characteristics

Impedance: 50 Ohm nominal

Frequency range: 0-4 GHz

Working voltage: 500 volts RMS at sea level

Dielectric withstanding voltage: 1500 volts RMS at sea level

Corona level: 375 volts minimum at 70,000 feet

Contact resistance: Outer - 0.2 milliohms maximum

Center - 2.1 milliohms maximum

Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to +85°C

Moisture resistance: MIL-STD-202

Mechanical Characteristics

Durability: 500 cycles

Force to engage/disengage: 3 lbs. maximum

Cable retention: 20 lbs., RG-58 C/U cable

Materials

Body: Zinc or brass

Contact: Brass, Beryllium copper or phosphor bronze

Spring Washer: Beryllium copper

Crimp sleeve: Brass

Insulator: Delrin® or TPX Polymethylpentene

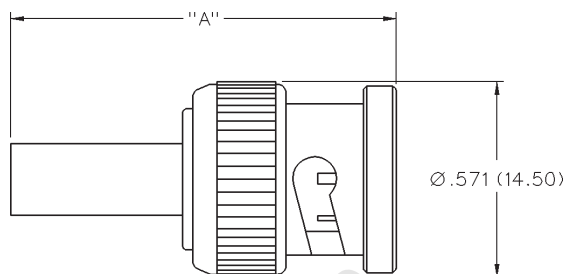
Plating: Body - Nickel (except where noted)

Crimp sleeve - Nickel

Contact - Gold

* These values are typical and may not apply to all connectors.

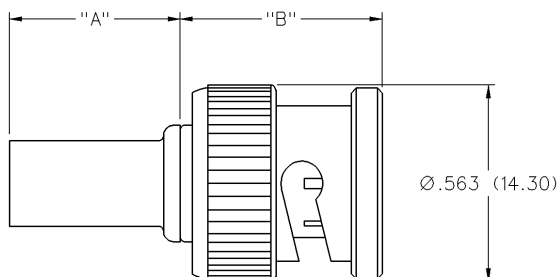
Straight Crimp Type Plug - Solder or Crimp Contact - 3 and 4 Piece



PART NO.	CABLE TYPE	"A"	CONTACT I.D.	BODY I.D.	SLEEVE I.D.	TERMINATION	PIECES
CPMC-88-19	RG-174, 188, 316	1.142 (29.00)	.0245 (0.62)	.093 (2.36)	.178 (4.52)	Crimp Sleeve	3
CPM-88-19	RG-174, 188, 316	0.932 (23.67)	.0245 (0.62)	.167 (4.24)	.118 (3.00)	Crimp Insert	4
CPM-88-19 A/S	RG-174, 188, 316	1.272 (32.31)	.0245 (0.42)	.167 (4.24)	.118 (3.00)	Extended Crimp Insert	4
CPM-88-20	RG-179, 187	0.932 (23.67)	.0165 (0.42)	.167 (4.24)	.118 (3.00)	Crimp Insert	4

Assembly instructions pages 246 and 247.

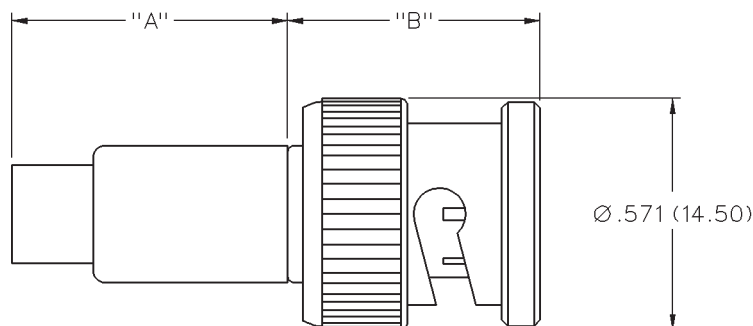
Straight Crimp Type Plug - Solder or Crimp Contact - 3 Piece



PART NO.	CABLE TYPE	"A"	"B"	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
CPMC-88-1	RG-58, 141	.520 (13.20)	.595 (15.11)	.044 (1.12)	.126 (3.20)	.206 (5.23)
CPMC-88-2	RG-59, 62	.520 (13.20)	.595 (15.11)	.034 (0.86)	.173 (4.39)	.261 (6.63)
CPMC-88-3	BELDEN 8281	.600 (15.24)	.645 (16.38)	.034 (0.86)	.208 (5.28)	.344 (8.74)
CPMC-88-5	RG-6	.500 (12.70)	.645 (16.38)	.044 (1.12)	.208 (5.28)	.280 (7.11)
CPMC-88-10	RG-59 PLENUM, 62 PLENUM	.520 (13.20)	.595 (15.11)	.0325 (0.83)	.141 (3.58)	.206 (5.23)
CPMC-88-11	RG-58 PLENUM; RG-303	.541 (13.74)	.595 (15.11)	.044 (1.12)	.126 (3.20)	.192 (4.88)
CPMC-88-13	RG-142, 223, 400, 55	.520 (13.20)	.595 (15.11)	.044 (1.12)	.126 (3.20)	.220 (5.59)
CPMC-88-14	RG-180, 34M, 195	.520 (13.20)	.595 (15.11)	.0165 (0.42)	.107 (2.72)	.175 (4.45)
CPMC-88-17	RG-8X (MINI 8)	.520 (13.20)	.595 (15.11)	.065 (1.65)	.173 (4.39)	.261 (6.63)
CPMC-88-18	BELDEN 8218, MINI 75	.520 (13.20)	.595 (15.11)	.0245 (0.62)	.107 (2.72)	.175 (4.45)
CPMC-88-21	RG-58, RG-59 PLENUM	1.238 (31.45)	1.143 (29.03)	.034 (0.86)	.172 (4.37)	.213 (5.41)
CPMC-88-26	RG-11, BELDEN 1523A	.709 (18.00)	.763 (19.38)	.067 (1.70)	.291 (7.90)	.417 (10.60)

Assembly instructions page 246.

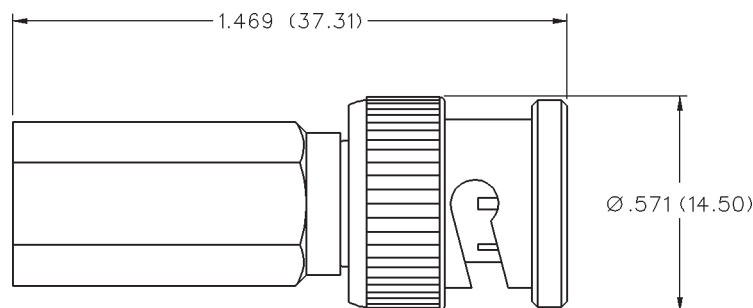
Straight Crimp Type Plug - Push-On Body - 2 Piece



PART NO.	CABLE TYPE	CABLE CENTER CONDUCTOR	"A"	"B"	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CP-88-1	RG-58	SOLID	.684 (17.37)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.195 (4.95)-.210 (5.33)
CP-88-2	RG-59, 62, RG-6 PLENUM, GENESIS 5352	SOLID	.673 (17.09)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.220(5.59)-.250 (6.35)
CP-88-3	BELDEN 8281, RG-6 QUAD	SOLID	.819 (20.80)	.540 (13.72)	22-18	.025 (.064)-.043 (1.09)	.272 (6.91)-.307 (7.80)
CP-88-4	RG-MATV-59	SOLID	.677 (17.20)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.242 (6.15)-.251 (6.38)
CP-88-5	RG-6	SOLID	.684 (17.37)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.265 (6.73)-.280 (7.11)
CP-88-10	RG-59, 62 PLENUM	SOLID	.680 (17.27)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.195 (4.95)-.210 (5.33)
CP-SW88-2	RG-59, 62, RG-6TFE	STRANDED	.673 (17.09)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.220 (5.59)-.250 (6.35)
CP-SW88-10	RG-59AU PLENUM	STRANDED	.673 (17.09)	.605 (15.37)	22-18	.025 (.064)-.043 (1.09)	.195 (4.95)-.210 (5.33)

Assembly instructions page 250.

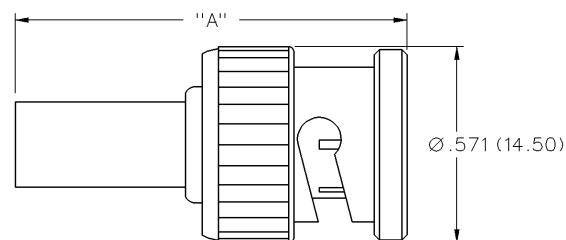
Straight Twist-On Plug - Field Installable - 1 Piece



PART NO.	CABLE TYPE	CABLE CENTER CONDUCTOR	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPFI-UG88-1	RG-58	SOLID	22-18	.025 (.064)-.043 (1.09)	.185 (4.70)-.205 (5.21)
CPFI-UG88-2	RG-59, 62	SOLID	22-18	.025 (.064)-.043 (1.09)	.220 (5.59)-.250 (6.35)
CPFI-UG88-3	BELDEN 8281, RG-6 QUAD	SOLID	22-18	.025 (.064)-.043 (1.09)	.272 (6.91)-.307 (7.80)
CPFI-UG88-4	RG-MATV-59	SOLID	22-18	.025 (.064)-.043 (1.09)	.220 (5.59)-.250 (6.35)
CPFI-UG88-5	RG-6 PLENUM	SOLID	22-18	.025 (.064)-.043 (1.09)	.270 (6.86)-.280 (7.11)
CPFI-UG88-10	RG-59 PLENUM, 62 PLENUM	SOLID	22-18	.025 (.064)-.043 (1.09)	.185 (4.70)-.205 (5.21)

Assembly instructions page 251.

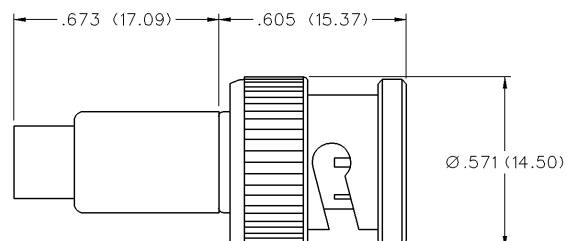
Straight Crimp Plug - Two Ferrules - 3 Piece



PART NO.	CABLE TYPE	"A"		CONTACT I.D.	BODY I.D.	SLEEVE I.D.	
CPMC-88-21	RG-58, RG-59 PLENUM	1.238 (31.45)	1.143 (29.03)	.034 (0.86)	.172 (4.37)	.213 (5.41)	.261 (6.63)

Assembly instructions page 248.

Straight Crimp Plug - Two Ferrules, Push-On Body - 2 Piece



PART NO.	CABLE TYPE
CP-SW88-21	RG-58, RG-59 PLENUM

Assembly instructions page 250.

Straight Crimp Type, Rear Mount Bulkhead Jack - Solder or Crimp Contact - 3 Piece

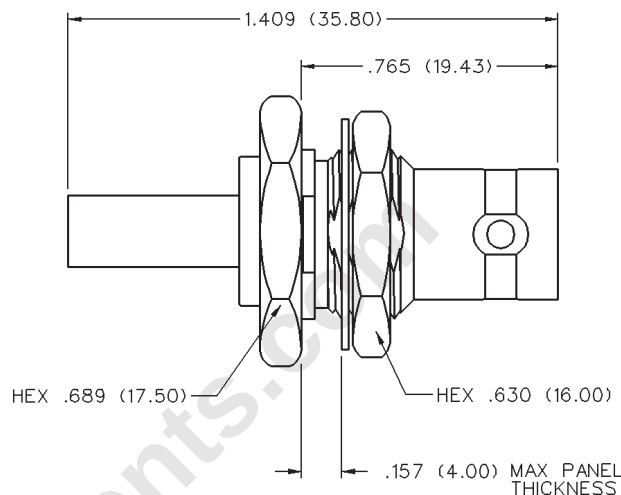


PART NO.	CABLE TYPE
CP-89-19BM1	RG-174, 188, 316

Assembly instructions page 249.

Mounting hole layout figure 24 page 203.

Tapered crimp sleeve as shown in photo.



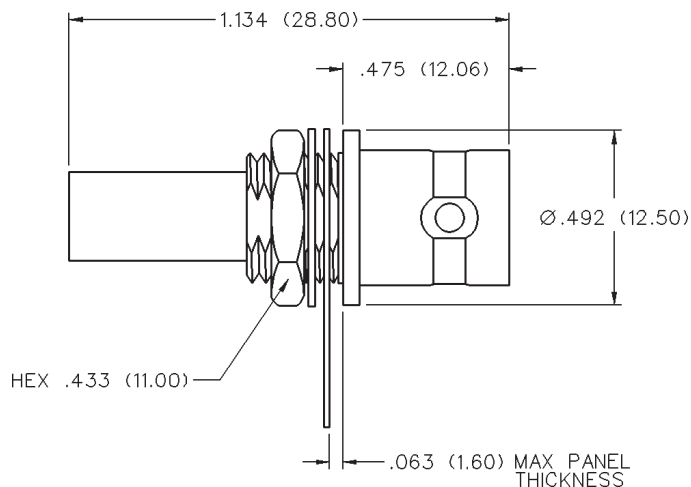
Straight Crimp Type, Front Mount Bulkhead Jack - Lug Terminal, Solder or Crimp Contact - 3 Piece



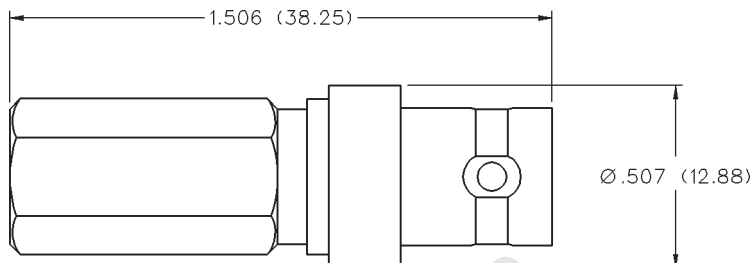
PART NO.	CABLE TYPE
CP-89-27BM2	RG-178, 196

Assembly instructions page 249.

Mounting hole layout figure 25 page 203.

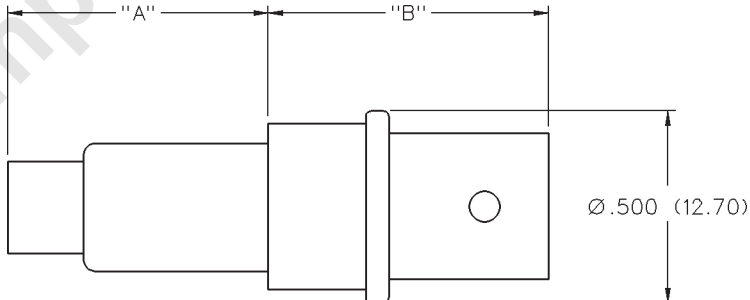


Straight Twist-On Jack - Field Installable - 1 Piece



PART NO.	CABLE TYPE	CABLE CENTER CONDUCTOR	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPFI-UG89-2	RG-59, 62	SOLID	22	.025 (0.64)	.220 (5.59)-.250 (6.35)

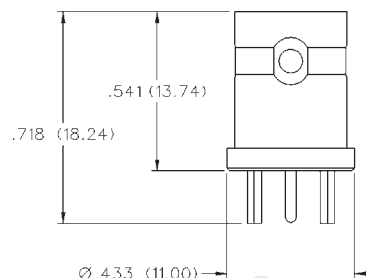
Straight Crimp Type Jack - Push-On Body - 2 Piece



PART NO.	CABLE TYPE	CABLE CENTER CONDUCTOR	"A"	"B"	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CP-89-1	RG-58	SOLID	.680 (17.27)	.668 (16.97)	20	.032 (0.81)	.195 (4.95)-.210 (5.33)
CP-89-2	RG-59, 62	SOLID	.673 (17.09)	.675 (17.15)	22	.025 (0.64)	.220 (5.59)-.250 (6.35)

Assembly instructions page 250.

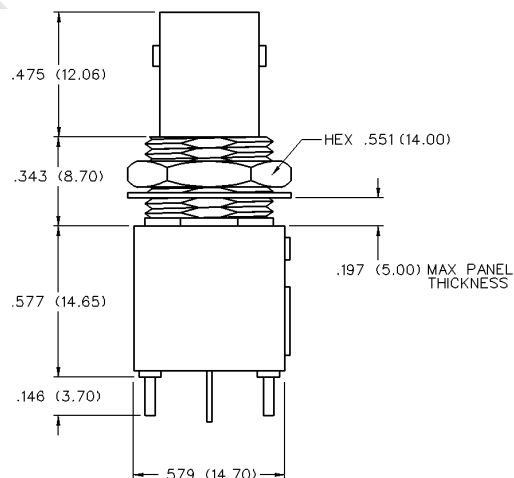
Straight Jack Receptacle



PART NO.	NOTES
CP-BNCPC-001	Silver plated body

Mounting hole layout figure 26 page 203.

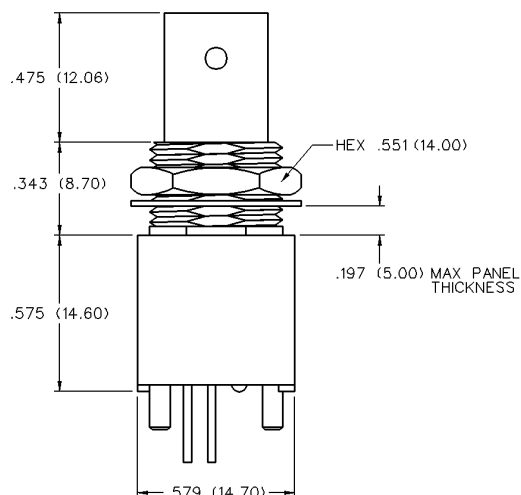
Straight Bulkhead Jack Receptacle - Shielded



PART NO.
CP-BNCPC-005

Mounting hole layout figures 24 and 27 page 203.

Straight Bulkhead Jack Receptacle - Isolated



PART NO.
CP-BNCPC-007

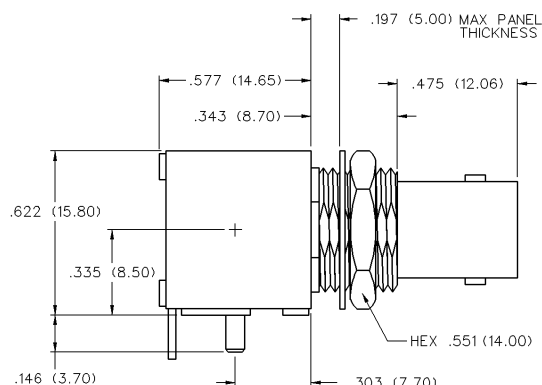
Mounting hole layout figures 24 and 27 page 203.

Right Angle Bulkhead Jack Receptacle - Shielded



PART NO.
CP-BNCPC-009

Mounting hole layout figures 24 and 28 page 203.

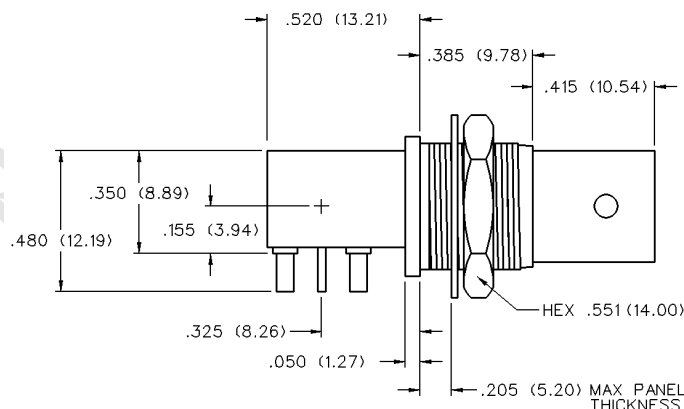


Right Angle Bulkhead Jack Receptacle - Shielded, Extra Low Profile



PART NO.	NOTES
CP-BNCPC-013	Tin plated body

Mounting hole layout figures 24 and 29 pages 203 and 204.

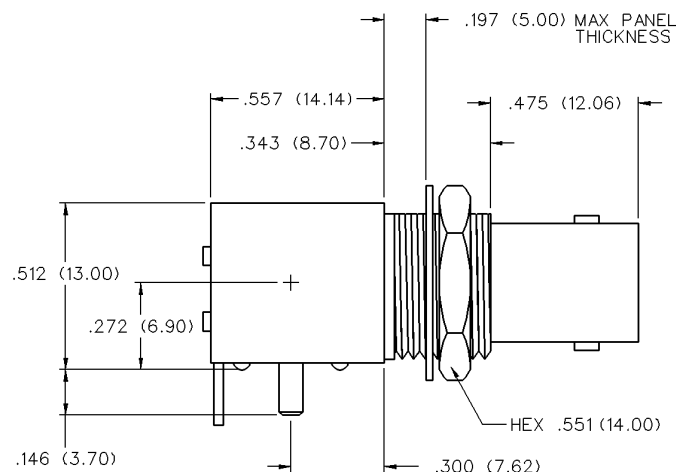


Right Angle Bulkhead Jack Receptacle - Isolated, Low Profile

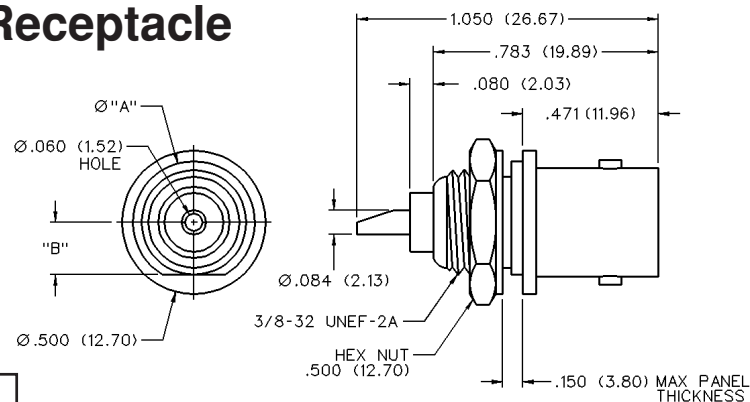


PART NO.	NOTES
CP-BNCPC-017	With mounting posts

Mounting hole layout figures 24 and 28 page 203.



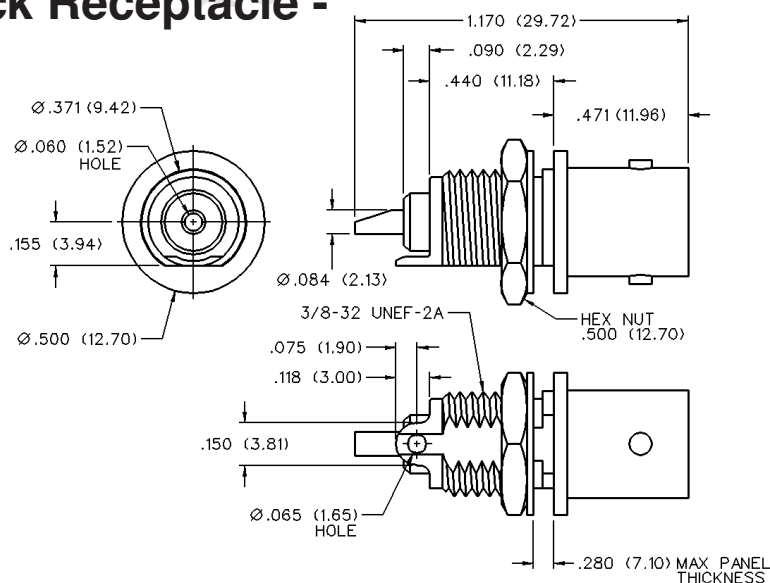
Front Mount Bulkhead Jack Receptacle



PART NO.	"A"	"B"	NOTES
CP-625U	.425 (10.80)	.183 (4.65)	w/o solder lug
CP-1094-U	.371 (9.42)	.155 (3.94)	w/o solder lug

Mounting hole layout for part number CP-625U figure 30 page 204.
Mounting hole layout for part number CP-1094-U figure 25 page 203.

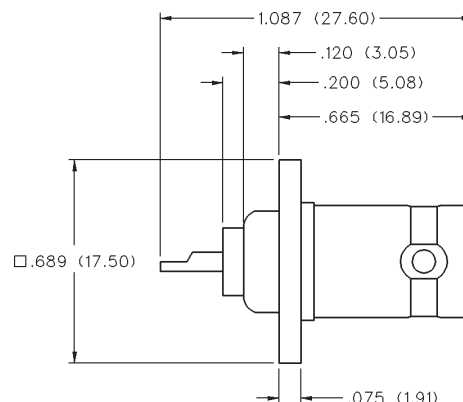
Front Mount Bulkhead Jack Receptacle - with Solder Tab



PART NO.
CP-1094-AST

Mounting hole layout figure 25 page 203.

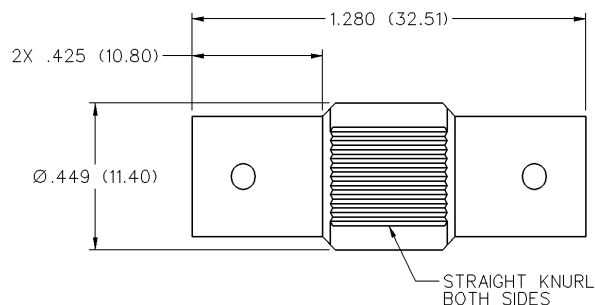
Flange Mount Jack Receptacle



PART NO.	NOTES
CP-AD519	.126 (3.20) dia. mounting holes

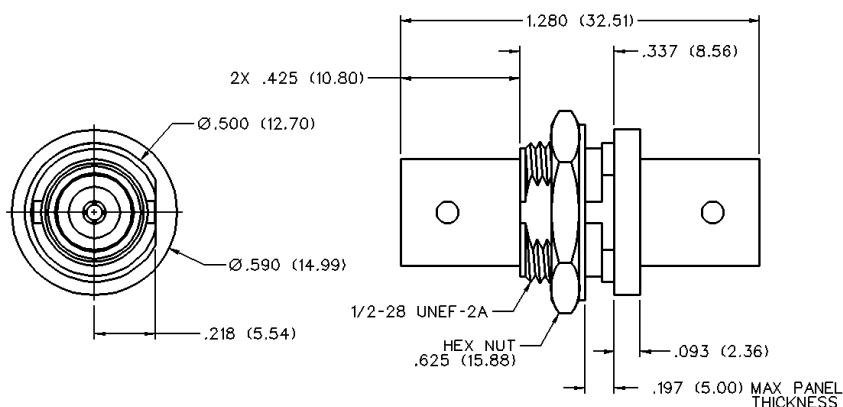
Mounting hole layout figure 31 page 204.

Jack to Jack Adapter



PART NO.
CP-AD555

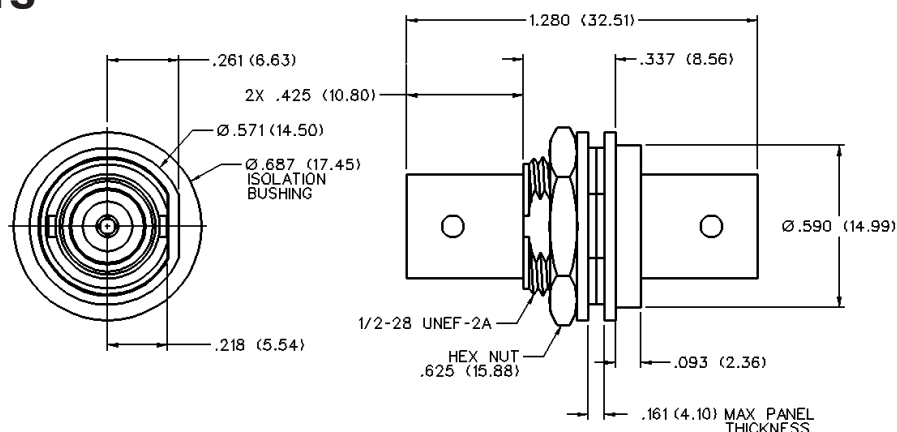
Bulkhead Jack to Jack Adapter



PART NO.	NOTES
CP-AD556M	w/lock washer

Mounting hole layout figure 24 page 203.

Bulkhead Jack to Jack Adapter - With Isolation Washers



PART NO.	NOTES
CP-AD558	w/lock washer
CP-AD521	Dual Chassis Mount

Mounting hole layout figure 32 page 204.

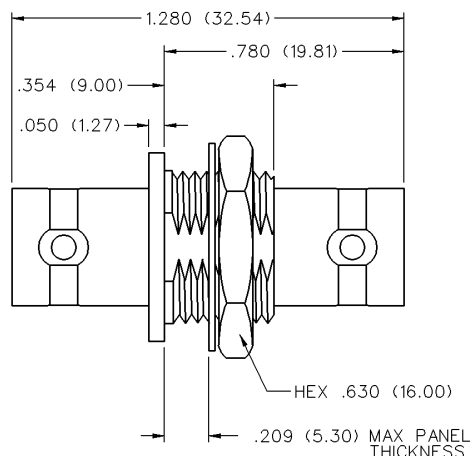
Bulkhead Jack to Jack Adapter - Isolated



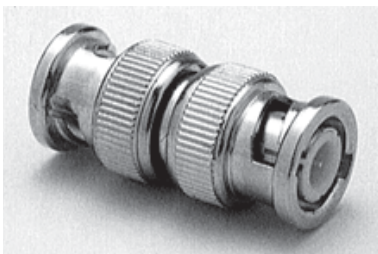
PART NO.

CP-AD580

Mounting hole layout figure 24 page 203.

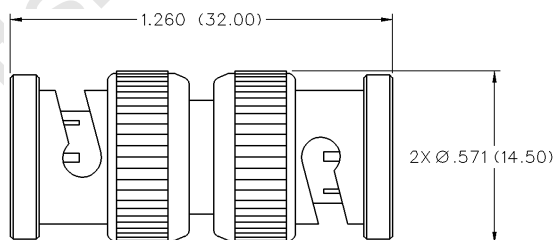


Plug to Plug Adapter



PART NO.

CP-AD511

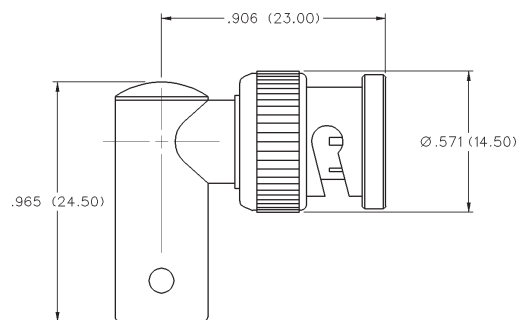


Jack to Plug Right Angle Adapter



PART NO.

CP-AD503

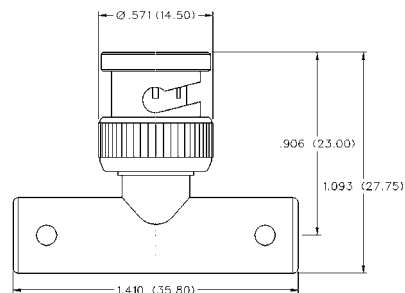


Jack to Jack to Plug T Adapter

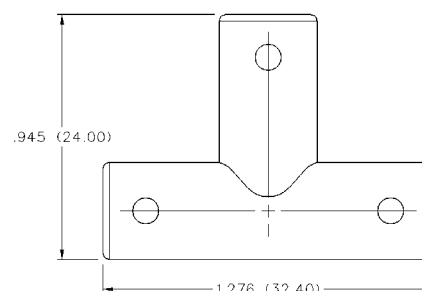
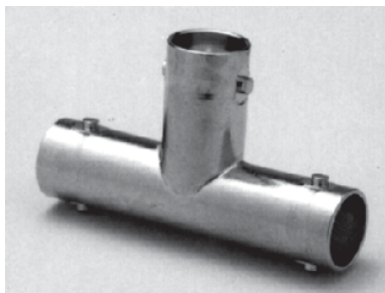


PART NO.

CP-AD505



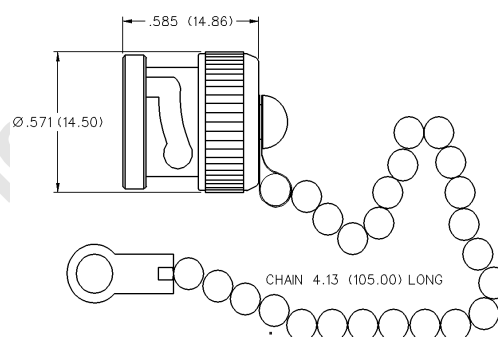
Jack to Jack to Jack T Adapter



PART NO.

CP-AD506

Dust Cap with Chain



PART NO.

CP-BNC-CAP-1

BNC Connectors - 75 Ohm Commercial

Bulkhead Mount	155
Flexible Cable	151
In-Series Adapters	156
PC Mount	153
Specifications	150
Terminations	157

True 75 Ohm BNC

Between-Series Adapters	161
Flexible Cable	159
In-Series Adapters	160
Specifications	158

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

The BNC series connector is a commercial quality product that intermates with all standard double bayonet stud BNC designs. All contacts are captivated for ruggedness. The 50 Ohm and 75 Ohm interfaces are intermateable and provide quick, reliable connections for instrumentation, medical and LAN applications.

Specifications*

75 Ohm BNC

Electrical Characteristics

Impedance: 75 Ohm nominal
Frequency range: 0-2 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Corona level: 375 volts minimum at 70,000 feet
Contact resistance: Outer - 0.2 milliohms maximum
Center - 2.1 milliohms maximum
Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to +85°C
Moisture resistance: MIL-STD-202

Mechanical Characteristics

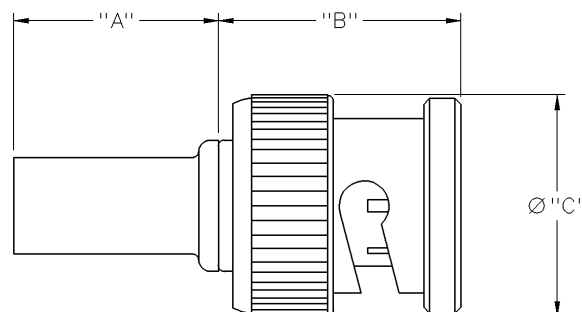
Durability: 500 cycles
Force to engage/disengage: 3 lbs. maximum
Cable retention: 20 lbs., RG-58 C/U cable

Materials

Body: Zinc or brass
Contact: Brass or Beryllium copper
Spring Washer: Beryllium copper
Crimp sleeve: Brass
Insulator: TPX
Plating: Body - Nickel (except where noted)
Crimp sleeve - Nickel
Contact - Nickel/Gold

* These values are typical and may not apply to all connectors.

Straight Crimp Type Plug - Solder or Crimp Contact - 3 Piece

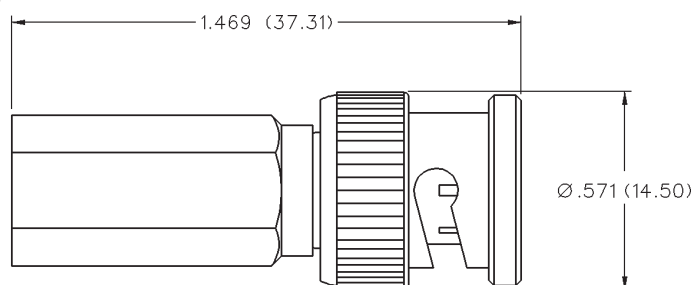


PART NO.	CABLE TYPE	"A"	"B"	"C"
CPMC-78-2	RG-59, 62	.520 (13.20)	.595 (15.11)	.563 (14.30)
CPMC-78-3	BELDEN 8281, 9141, 9231	.600 (15.24)	.645 (16.38)	.563 (14.30)
CPMC-78-5	BELDEN RG-6	.500 (12.70)	.645 (16.38)	.571 (14.50)
CPMC-78-10	RG-TFE-59, TFE-62	.520 (13.20)	.595 (15.11)	.563 (14.30)
CPMC-78-18	BELDEN 8218, 1855A, MINI 75	.520 (13.20)	.595 (15.11)	.571 (14.50)
CPMC-78-20*	RG-179, 187	.495 (12.57)	.633 (16.08)	.571 (14.50)

Assembly instructions page 246.

* Denotes tapered crimp sleeve.

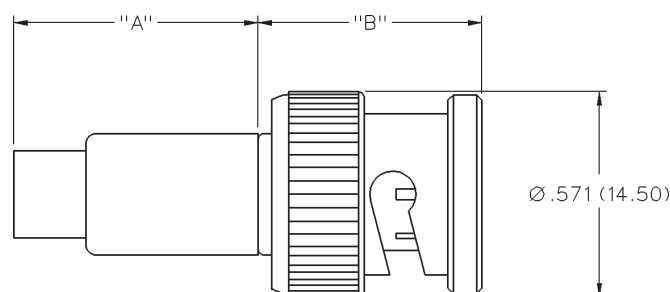
Straight Twist-On Plug - Field Installable - 1 Piece



PART NO.	CABLE TYPE
CPFI-UG78-2	RG-59, 62
CPFI-UG78-5	RG-6

Assembly instructions page 251.

Straight Crimp Type Plug - Push-On Body - 2 Piece



PART NO.	CABLE TYPE	"A"	"B"	WIRE GAUGE	SLEEVE I.D.
CP-78-2	RG-59, 62	.673 (17.09)	.605 (15.37)	22-18	.333 (8.46) / .255 (6.48)
CP-78-5	RG-6 QUAD .275 (6.98) MAX	.684 (17.37)	.605 (15.37)	22-18	.333 (8.46) / .284 (7.21)
CP-78-10	RG-59 PLENUM, RG-62 PLENUM	.600 (17.27)	.605 (15.37)	22-18	.333 (8.46) / .216 (5.49)

Assembly instructions page 250.

Straight Crimp Type, Rear Mount Bulkhead Jack with O'Ring - Solder or Crimp Contact - 3 Piece

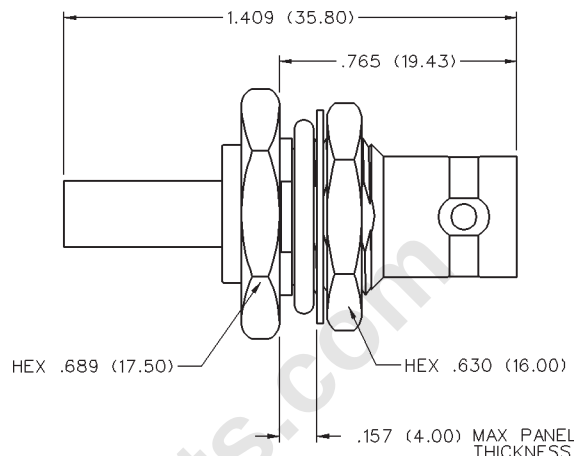


PART NO.	CABLE TYPE
CP-79-20BM1	RG-179, 187

Assembly instructions on page 249.

Mounting hole layout figure 24 page 203.

Tapered crimp sleeve as shown in photo.



Straight Crimp Type, Front Mount Bulkhead Jack - Lug Terminal, Solder or Crimp Contact - 3 Piece

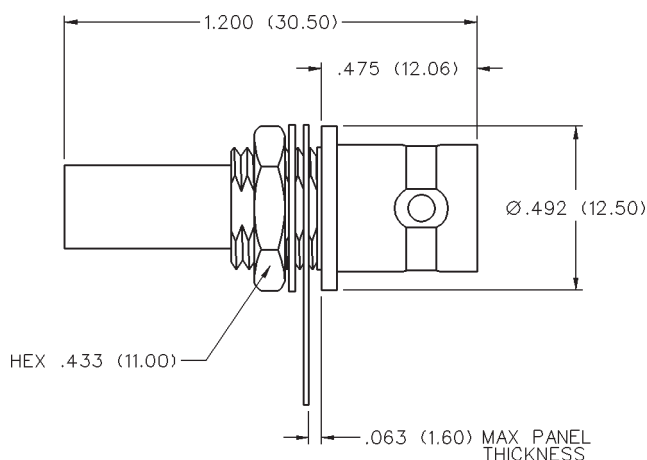


PART NO.	CABLE TYPE
CP-79-20BM2	RG-179, 187

Assembly instructions on page 249.

Mounting hole layout figure 25 page 203.

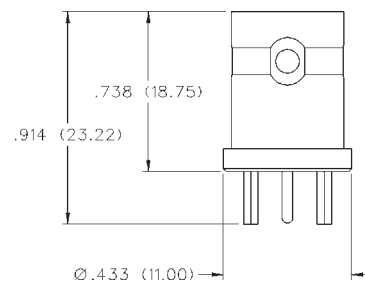
Tapered crimp sleeve as shown in photo.



Straight Jack Receptacle

PART NO.	NOTES
CP-BNCPC-004	Tin plated body

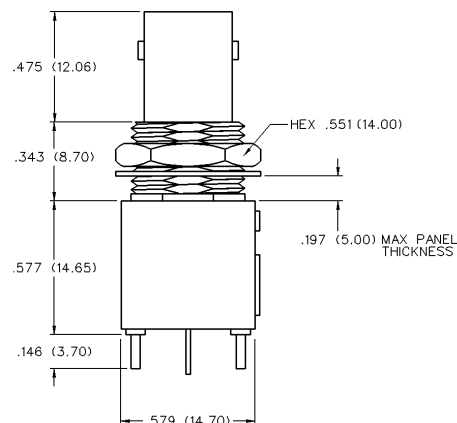
Mounting hole layout figure 26 page 203.



Straight Bulkhead Jack Receptacle - Shielded

PART NO.
CP-BNCPC-006

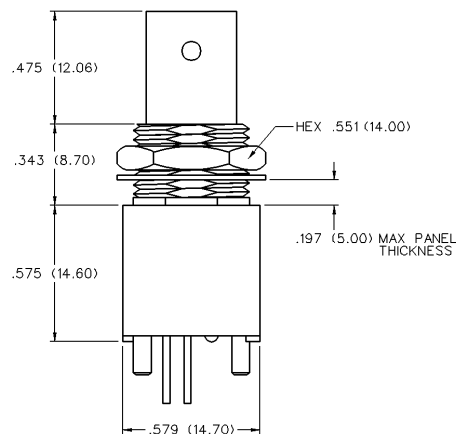
Mounting hole layout figures 24 and 27 page 203.



Straight Bulkhead Jack Receptacle - Isolated

PART NO.
CP-BNCPC-008

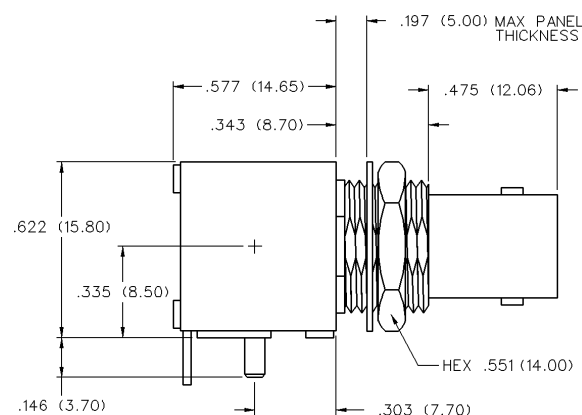
Mounting hole layout figures 24 and 27 page 203.



Right Angle Bulkhead Jack Receptacle - Shielded

PART NO.
CP-BNCPC-010

Mounting hole layout figures 24 and 28 page 203.

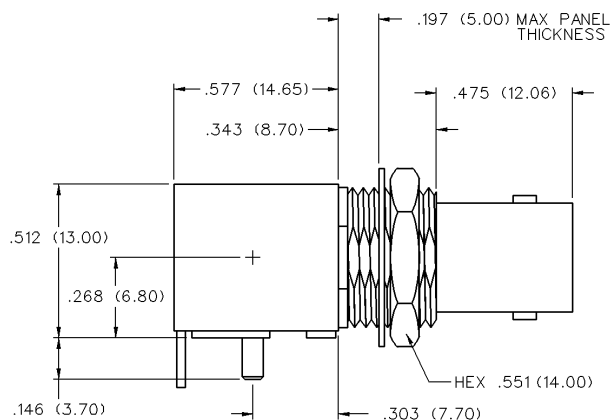


Right Angle Bulkhead Jack Receptacle - Shielded, Low Profile



PART NO.
CP-BNCPC-012

Mounting hole layout figures 24 and 28 page 203.

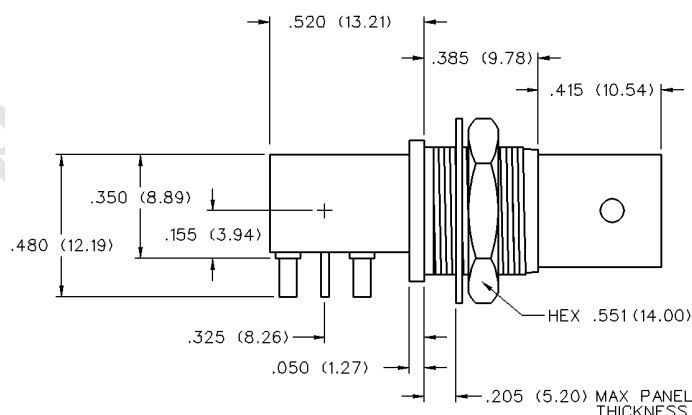


Right Angle Bulkhead Jack Receptacle - Shielded, Extra Low Profile



PART NO.	NOTES
CP-BNCPC-014	Tin plated body

Mounting hole layout figures 24 and 29 pages 203 and 204.

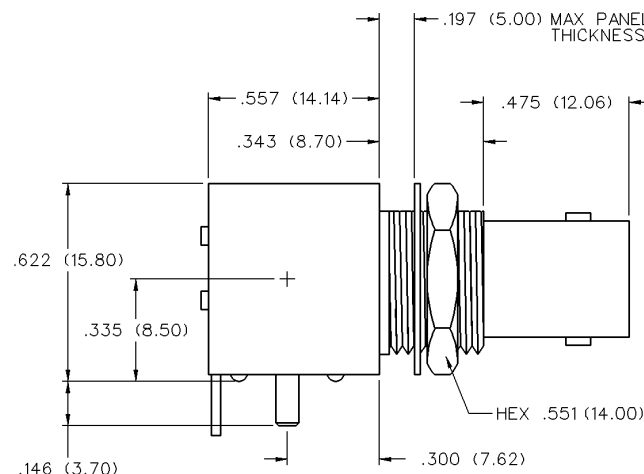


Right Angle Bulkhead Jack Receptacle - Isolated



PART NO.	NOTES
CP-BNCPC-016	With mounting posts

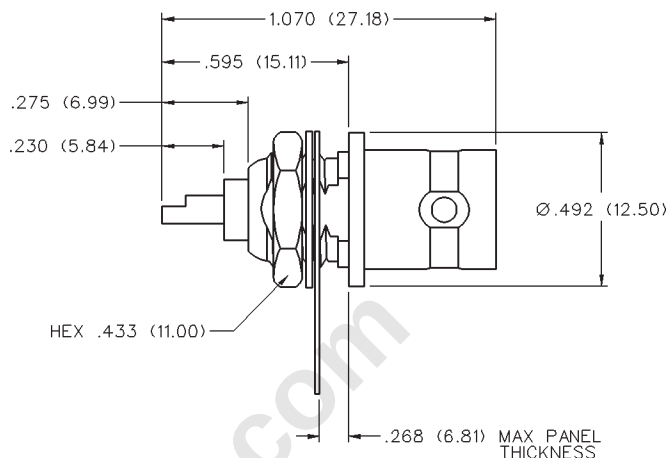
Mounting hole layout figures 24 and 28 page 203.



Front Mount Bulkhead Jack Receptacle with Lug Terminal

**PART NO.**

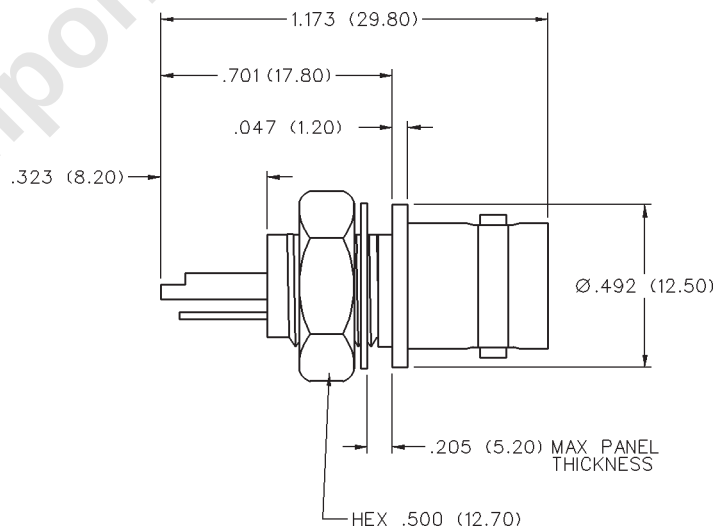
CP-BNC-BM-001

Mounting hole layout figure 25 page 203.

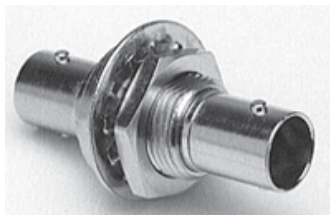
Front Mount Bulkhead Jack Receptacle - Isolated

**PART NO.**

CP-AD520

Mounting hole layout figure 25 page 203.

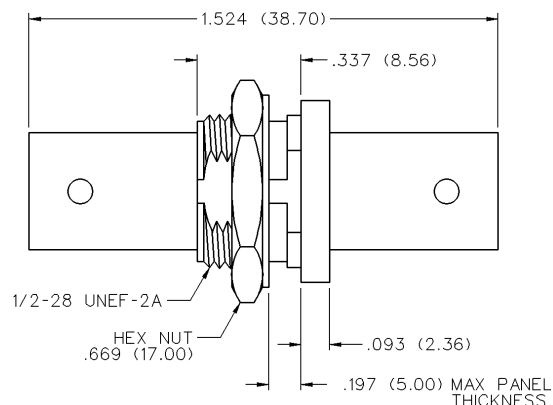
Bulkhead Jack to Jack Adapter - Dual Chassis Mount



PART NO.

CP-AD557

Mounting hole layout figure 24 page 203.

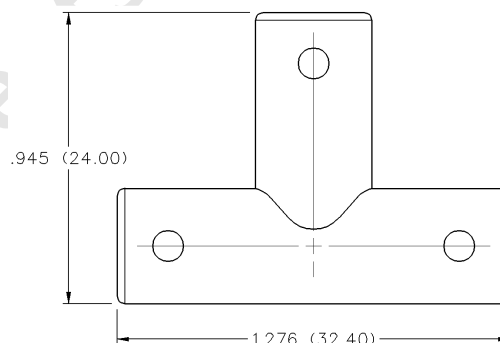


Jack to Jack to Jack T Adapter



PART NO.

CP-AD584

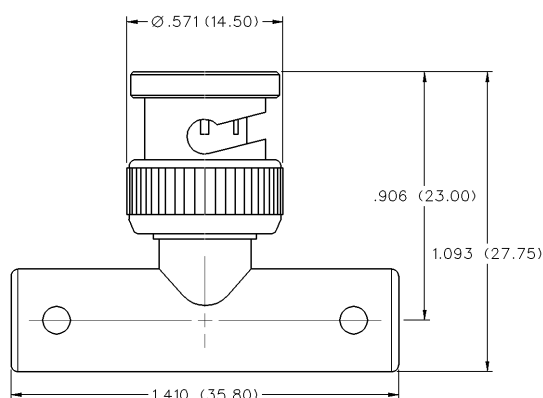


Jack to Jack to Plug T Adapter

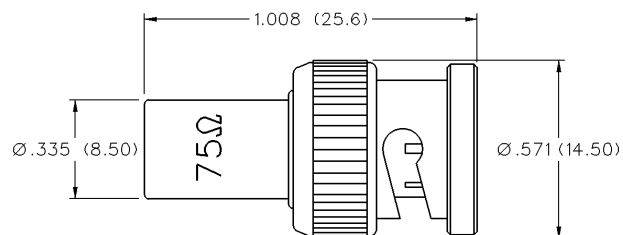


PART NO.

CP-AD705



Terminations



PART NO.	CODING	RESISTANCE	POWER
CP-88T-75	Purple	75 Ohm $\pm 1\%$	1/2 Watt

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

Electrical Characteristics

Impedance: 75 Ohm

Frequency range: 0-3 GHz

VSWR: $1.10 + .03 F$ (F in GHz) BNC Cabled Plugs

$1.03 + .02 F$ (F in GHz) BNC Adapters

Working voltage: 500 VRMS at sea level

Dielectric withstanding voltage: 1500 VRMS at sea level

Insulation resistance: 5000 megohms minimum

Contact resistance:

Outer - Nickel plated initial 2.5 milliohm max,

after environmental 3.5 milliohm max

Center - Initial 3 milliohm max,

after environmental 4 milliohm max

Braid to Body - 2.5 milliohm max (nickel plated), after environmental not applicable

Corona level: 375 volts minimum at 70,000 feet

RF High Potential Withstanding Voltage: 700 VRMS at 4 and 7 MHz

Environmental Characteristics

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Thermal shock: MIL-STD-202, Method 107

Operating temperature: -65°C to $+165^{\circ}\text{C}$

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition B

Vibration: MIL-STD-202, Method 204, Condition B

Moisture resistance: MIL-STD-202, Method 106

Mechanical Characteristics

Durability: 500 cycles min

Force to engage/disengage: 5 lbs. max, after durability 5 lbs max; 1 lb. min.

Coupling nut retention: 100 lbs. min

Contact retention: 6 lbs. min axial force

Material Specifications

Body: Brass, nickel plated .0001 min over copper plated .00005 min

Contact: Brass, gold plated .00005 min over nickel plated

.00005 min over copper plated .00005 min

Crimp Sleeve: Copper, nickel plate .0001 min over copper plated .00005 min

Nut: Zinc, nickel plated over copper plated

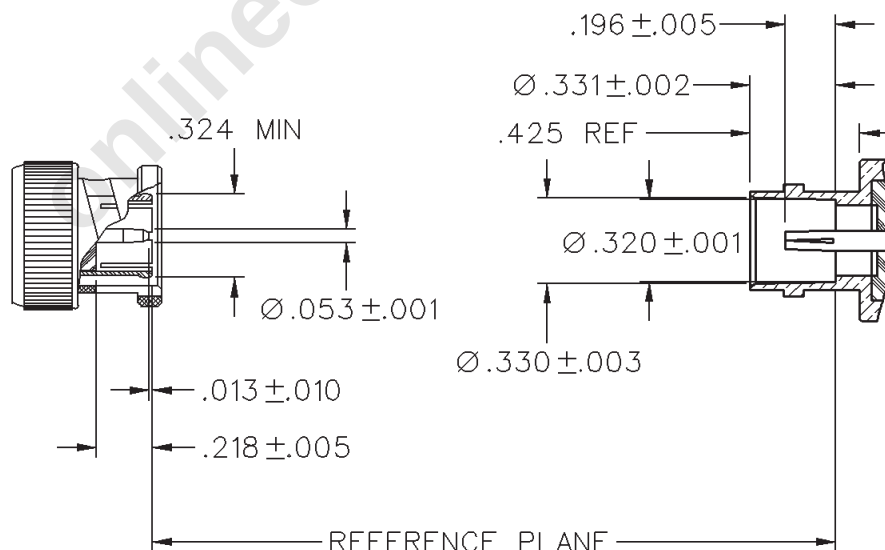
Insulator: Teflon

Spring Washer: Beryllium Copper (unplated)

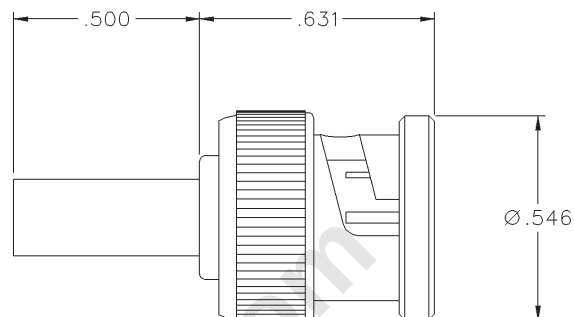
Flat Washer: Steel, nickel plated

Gasket: Silicone rubber

True 75 Ohm BNC Plug and Jack Mating Engagement



Straight Cabled Plug - 3 Piece - Solder or Crimp Captivated Contact



PART NO.	CABLE TYPE	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
CPMC-68-2	RG-59, 140, 302, Belden 9209A, 8279, 8241, 8263, Commscope 5563, Gepco VJ59U	.028 (0.71)	.152 (3.86)	.252 (6.40)
CPMC-68-3	Belden 8281, 9231, 9141, 728A, Commscope 7501, VP618VC	.036 (0.91)	.203 (5.16)	.330 (8.38)
CPMC-68-5	RG-6, Belden 8215	.033 (0.84)	.191 (4.85)	.355 (9.01)
CPMC-68-10	Belden 82108, 89108, Coleman 99969	.036 (0.91)	.149 (3.78)	.234 (5.94)
CPMC-68-18	Belden 8218	.021 (0.53)	.105 (3.81)	.180 (4.57)
CPMC-68-20	RG-179, 187, Belden 1520A	.016 (0.53)	.067 (1.70)	.128 (3.25)
CPMC-68-33	Belden 735A, Commscope 735, Helex/Hitemp 735, BT3002, TZC75024	.021 (0.53)	.082 (2.08)	.160 (4.06)
CPMC-68-34	Belden 1855A, 720A, Commscope 7538, Gepco VDM 230, VDM 250, Mini-75	.028 (0.71)	.105 (3.81)	.180 (4.57)
CPMC-68-35	Belden 1505A, 734A, Commscope 5565, Gepco VPM2000	.036 (0.91)	.152 (3.86)	.252 (6.40)
CPMC-68-36	Belden 1695A, 633938, Gepco VSD 2001TS, Commscope 2277V	.044 (1.12)	.176 (4.47)	.265 (6.73)
CPMC-68-45	Belden 1694A, 9248, 1152, Commscope 5765, 2227K, Gepco VSD 2001, RG-6 Quad .275 (6.98) Max O.D.	.044 (1.12)	.187 (4.75)	.290 (7.37)
CPMC-68-50	Belden 1506A, 82259, 89259, Gepco VPM2000TK, VPM2000TS	.036 (0.91)	.138 (3.51)	.234 (5.94)

Assembly instructions page 252.

BNC Connectors - True 75 Ohm

In-Series Adapters

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

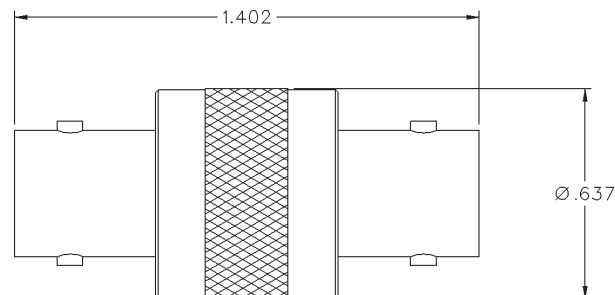

EMERSON
Network Power

Jack to Jack Adapter



PART NO.

CP-AD587

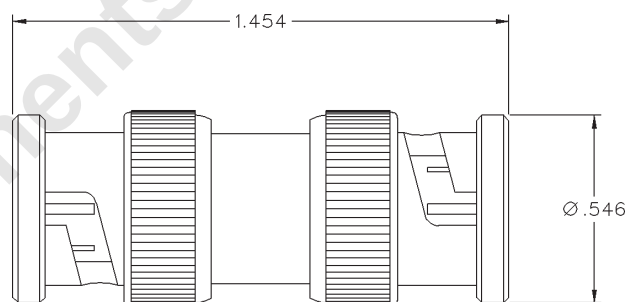


Plug to Plug Adapter



PART NO.

CP-AD585

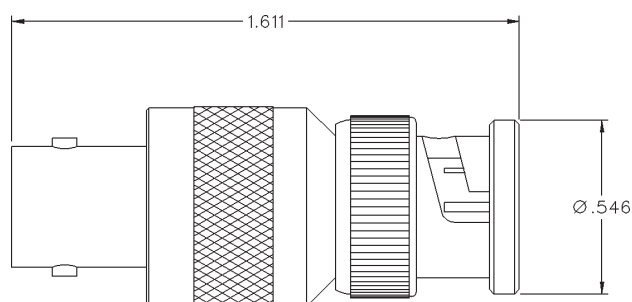


Jack to Plug Adapter

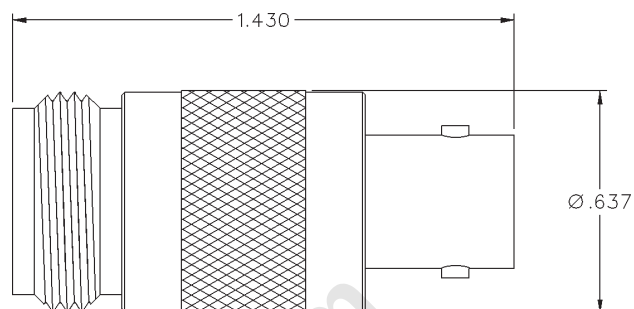


PART NO.

CP-AD586



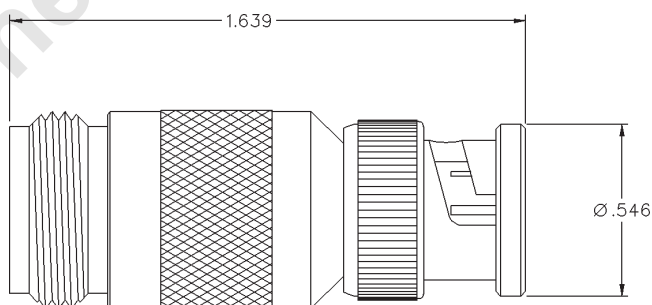
BNC Jack to N Jack Adapter



PART NO.

CP-AD822

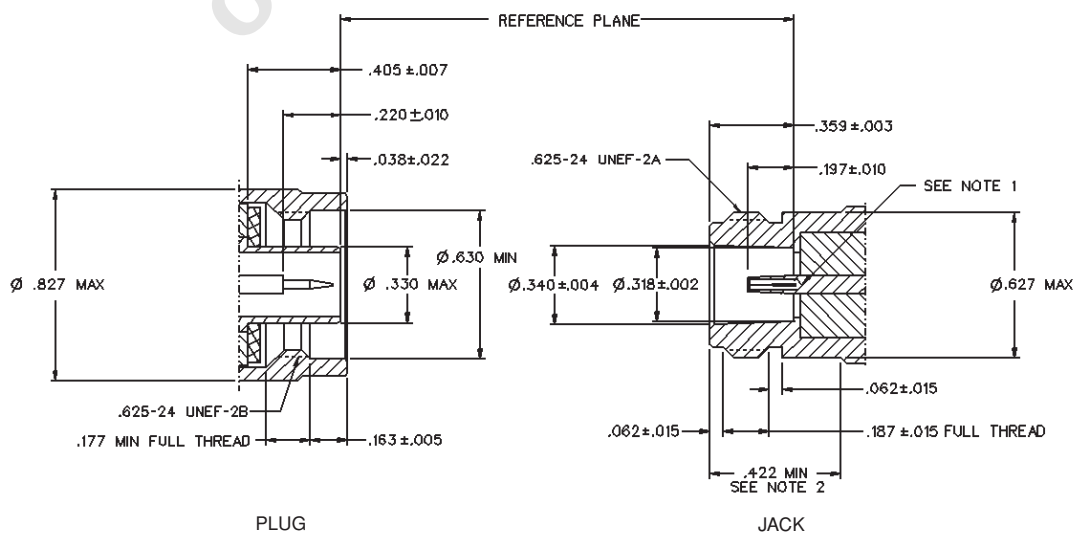
BNC Plug to N Jack Adapter



PART NO.

CP-AD821

Mating Engagement for 75 Ohm N Series



NOTES:

1. ID to meet VSWR and contact resistance when mated with .035/.037 dia pin.
2. Clearance for mating connector coupling nut.
3. 75 Ohm N series connectors are not compatible with 50 Ohm N series connectors.

Cable Boots and Strain Reliefs



Figure 1



Figure 2



Figure 3

PART NO.	CABLE TYPE	COLOR	PACKAGING	FIGURE
25-7958 BK	RG-58, 141	BLACK	100 pcs/bag	1
25-7959 BK	RG-59, 62	BLACK	100 pcs/bag	1
25-B58	RG-58, 141	BLACK	100 pcs/bag	2
25-B174	RG-174	BLACK	100 pcs/bag	3

TNC Connectors

Flexible Cable	165
In-Series Adapters	166
Specifications	164

RF Adapter Kit

Adapters	168
----------------	-----

N Connectors

Panel Mount and In-Series Adapters	172
Flexible Cable	170
Specifications	169

F Series Connectors

Flexible Cable	174
Straight, Right Angle PC Mount, Terminations, Adapters	175
Specifications	173

UHF Connectors

Bulkhead Mounts and Adapters	178
Flexible Cables	177
Specifications	176

Mini-UHF Connectors

Flexible Cable	181
Specifications	180

Other Information

Assembly Instructions	205
Assembly Tools	189
Cable Assembly	199
Cable Information	200
Capabilities	198
Mounting Hole Layouts	201
Numerical Index	289
Ordering Information	2
Competitor Cross Reference	281

The TNC connector is a threaded version of the BNC mating interface. All contacts are captivated for ruggedness. The TNC is a commercial quality connector that provides additional coupling retention for shock and vibration applications. The TNC connector intermates with all standard 50 Ohm TNC connectors.

Specifications*

Electrical Characteristics

Impedance: 50 Ohm nominal (except where noted)
Frequency range: 0-11 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Corona level: 375 volts minimum at 70,000 feet
Contact resistance: Outer - 0.2 milliohms maximum
Center - 2.1 milliohms maximum
Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to +85°C
Moisture Resistance: MIL-STD-202

Mechanical Characteristics

Durability: 500 cycles
Cable retention: 20 lbs., RG-58 C/U cable

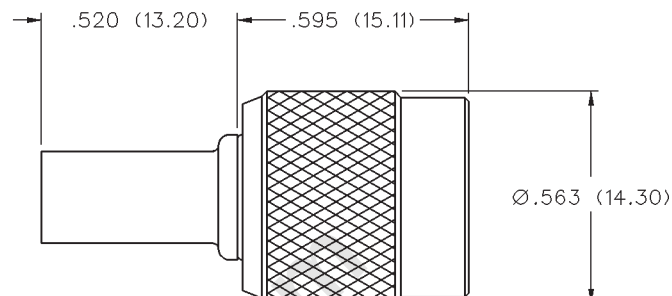
Materials

Body and coupling nut: Zinc or brass
Contact: Beryllium copper, phosphor bronze or brass
Crimp Sleeve: Brass
Insulator: Teflon®, TPX or Delrin®
Hardware: Brass
Plating: Body - Nickel
Crimp sleeve - Nickel
Hardware - Nickel
Contact - Gold

* These values are typical and may not apply to all connectors.

Delrin® and Teflon® are registered trademarks of Dupont Corporation.

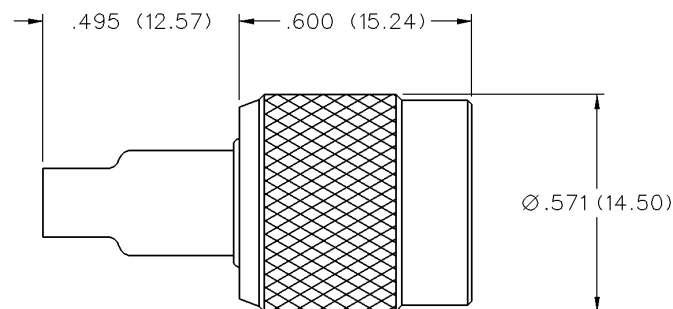
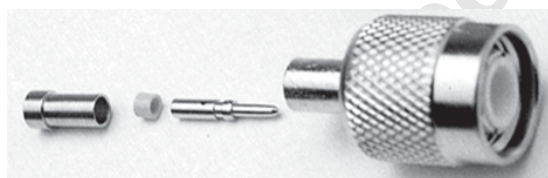
Straight Crimp Type Plug - Solder or Crimp Contact - 3 Piece



PART NO.	CABLE TYPE	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
CPMC-TNC-1	RG-58, 141	.044 (1.12)	.126 (3.20)	.206 (5.23)
CPMC-TNC-2	RG-59, 62	.034 (0.86)	.173 (4.39)	.261 (6.63)
CPMC-TNC-13	RG-142, 223, 400, 55	.044 (1.12)	.126 (3.20)	.220 (5.59)
CPMC-TNC-16	Proflex RG-450	.055 (1.40)	.173 (4.39)	.261 (6.63)
CPMC-TNC-17	RG-8X (MINI 8), LMR 240	.065 (1.65)	.173 (4.39)	.261 (6.63)

Assembly instructions page 253.

Straight Crimp Type Plug - Solder or Crimp Contact - 4 Piece



PART NO.	CABLE TYPE	CONTACT I.D.	BODY I.D.	SLEEVE I.D.	TERMINATION
CPM-TNC-19	RG-174, 188, 316	.0245 (0.62)	.167 (4.24)	.118 (3.00)	Crimp Insert
CPM-TNC-20	RG-179, 187	.0165 (0.42)	.167 (4.24)	.118 (3.00)	Crimp Insert

Assembly instructions page 247.

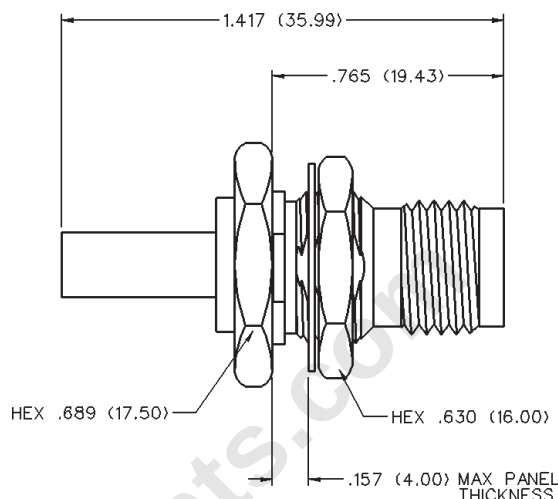
Straight Crimp Type, Rear Mount Bulkhead Jack - Solder or Crimp Contact - 3 Piece



PART NO.	CABLE TYPE
CP-TNC-89-19-BM	RG-174, 188, 316

Assembly instructions page 253.

Mounting hole layout figure 24 page 203.

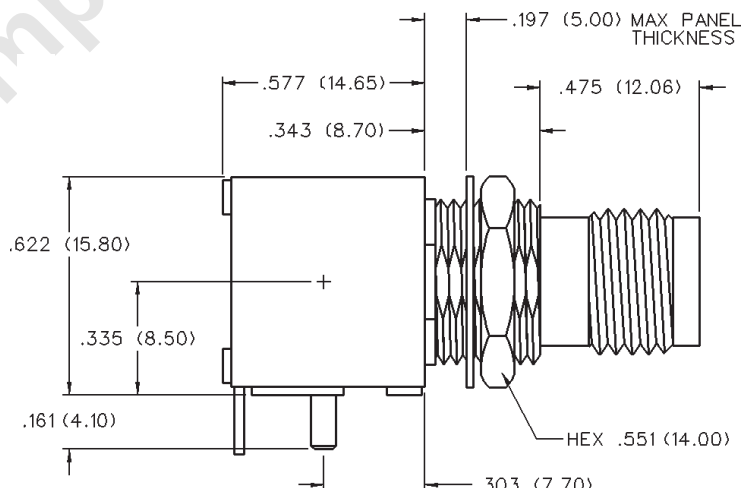


Right Angle Bulkhead Jack Receptacle - Shielded



PART NO.
CPM-TNC-PC-002

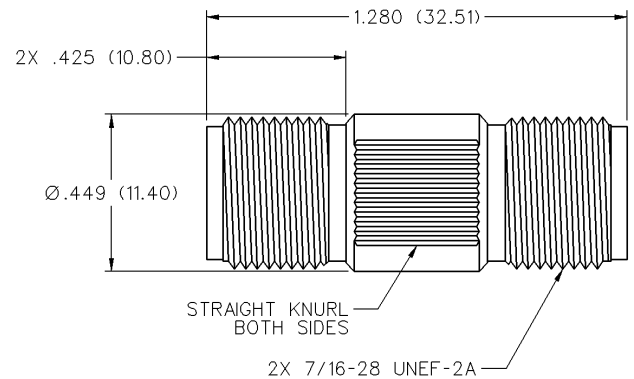
Mounting hole layout figures 24 and 28 page 203.



Jack to Jack Adapter



PART NO.
CP-AD355

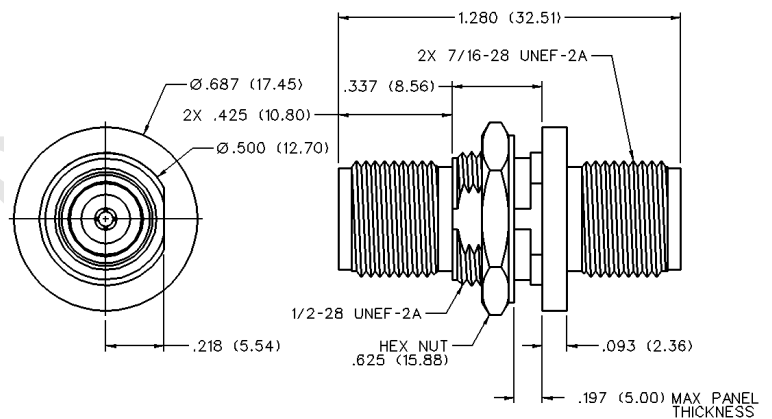


Jack to Bulkhead Jack Adapter



PART NO.
CP-AD356

Mounting hole layout figure 24 page 203.



RF Adapter Kit

Specifications

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

EMERSON
Network Power

RF Adapter Kit



PART NO.
142-0000-005

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
142-0901-401	SMA Jack to Bkhd. Jack, Gold Pl.	4	CP-AD515	BNC Plug to RCA Jack	3
142-0901-801	SMA Jack to Jack, Gold Pl.	2	CP-AD555	BNC Jack to Jack	3
142-0901-811	SMA Plug to Plug, Gold Pl.	4	CP-AD556M	BNC Jack to Bkhd. Jack	2
142-0901-821	SMA Plug to Jack, Gold Pl.	4	CP-AD582	SMA Plug to BNC Plug	3
142-0901-921	RA SMA Jack to Jack, Gold Pl.	2	CP-AD583	SMA Jack to BNC Plug	3
142-0901-931	RA SMA Plug to Plug, Gold Pl.	2	CP-AD800	N Plug to Plug	2
142-0901-941	RA SMA Plug to Jack, Gold Pl.	4	CP-AD356	TNC Jack to Bkhd. Jack	3
142-0901-861	SMA Dummy Load Plug, Gold Pl.	2	CP-AD809	N Plug to BNC Jack	2
CP-AD503	BNC RA BNC Plug to Jack	2	CP-AD810	N Plug to SMA Jack	2
CP-AD505	BNC Jack to Plug to Jack (T)	2	CP-AD817	N Plug to SMA Plug	2
CP-AD506	BNC Jack to Jack to Jack (T)	2	CP-AD818	N Jack to SMA Plug	2
CP-AD507	SMA Jack to BNC Jack	3	CP-AD819	N Jack to SMA Jack	2
CP-AD508	SMA Plug to BNC Jack	3	CP-AD850	N Jack to Jack	2
CP-AD511	BNC Plug to Plug	3	CP-AD851	N Jack to Bkhd. Jack	2

TOTAL: 72 Adapters

The N connector employs a large diameter threaded interface for excellent strength and reliability. This commercial quality connector handles high power applications such as antenna feeds for radios and cell sites. Termination options include crimp and clamp styles for rugged service.

Specifications*

Electrical Characteristics

Impedance: 50 Ohm nominal
Frequency range: 0-11 GHz
Working voltage: 500 volts RMS at sea level
Dielectric withstanding voltage: 1500 volts RMS at sea level
Corona level: 375 volts minimum at 70,000 feet
Contact resistance: Outer - 0.2 milliohms maximum
Center - 2.1 milliohms maximum
Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to + 85°C
Moisture Resistance: MIL-STD-202

Mechanical Characteristics

Durability: 500 cycles
Cable retention: 20 lbs., RG-58 C/U cable

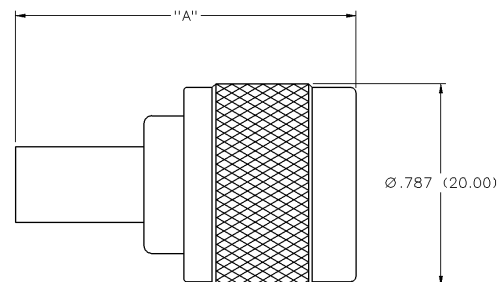
Materials

Body and coupling nut: Brass
Contact: Brass, phosphor bronze or beryllium copper
Crimp sleeve: Brass
Insulator: Teflon® or Delrin®
Hardware: Brass
Plating: Body - Nickel
Crimp sleeve - Nickel
Hardware - Nickel
Contact - Gold

* These values are typical and may not apply to all connectors.

Delrin® and Teflon® are registered trademarks of Dupont Corporation.

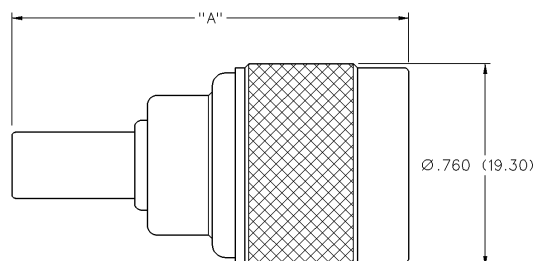
Straight Crimp Type Plug - Solder or Crimp Contact



PART NO.	CABLE TYPE	"A"	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
CPN-68-1	RG-58; BELDEN 9907	1.330 (33.78)	.042 (1.07)	.125 (3.18)	.212 (5.38)
CPN-68-8	RG-8, 213	1.385 (35.18)	.093 (2.36)	.293 (7.44)	.430 (10.92)
CPN-68-13	RG-142, 223, 400	1.330 (33.78)	.042 (1.07)	.127 (3.23)	.223 (5.66)

Assembly instructions page 254.

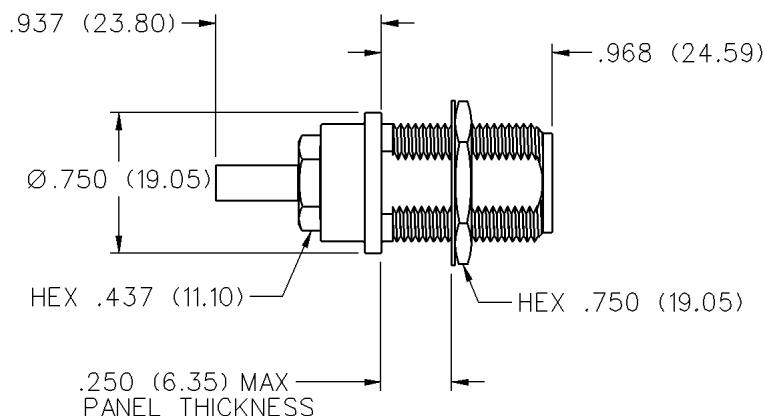
Straight Crimp Type Plug - 120 Second Termination - 3 Piece



PART NO.	CABLE TYPE	"A"	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
CPN-1	RG-58	1.450 (36.83)	.044 (1.12)	.125 (3.18)	.206 (5.23)
CPN-2	RG-59, 62	1.450 (36.83)	.0325 (0.83)	.173 (4.39)	.261 (6.63)
CPN-8	RG-8 Types	1.550 (39.37)	.089 (2.26)	.300 (7.62)	.420 (10.67)
CPN-8/110	RG-8, 213, LMR 400	1.550 (39.37)	.110 (2.79)	.300 (7.62)	.420 (10.67)
CPN-16	PROFLEX RG-450	1.455 (36.96)	.055 (1.40)	.173 (4.39)	.261 (6.63)
CPN-17	RG8X (MINI 8)	1.455 (36.96)	.065 (1.65)	.173 (4.39)	.261 (6.63)
CPN-142T	RG-142 TFE	1.455 (36.96)	.044 (1.12)	.125 (3.18)	.220 (5.59)

Assembly instructions page 255.

Straight Crimp Type Bulkhead Jack - Diecast Body



PART NO.	CABLE TYPE
134-0303-406	RG-161/U, 174,188, 316
134-0304-406	RG-188 DS, RG-316 DS
134-0307-406	RG-58/U, 141, 303
134-0308-406	RG-55/U, 142, 223, 400

Assembly instructions page 241.

Mounting hole layout figure 11 page 201.

N connector plug also available.

ELECTRICAL RATINGS

Impedance: 50 Ohms

Frequency Range: 0-11 GHz

VSWR: (f = GHz)	Typical VSWR	Frequency Range (GHz)
RG-316 cable	1.20	0-2
	1.50	2-11
RG-58 cable	1.30	0-5
	1.70	5-11
RG-142 cable	1.20	0-5
	1.50	5-11

Working Voltage: (VRMS maximum)*

Connectors for Cable Type	Sea Level	70K Feet
RG-316	335	85
RG-58	500	125
RG-142	500	125

Dielectric Withstanding Voltage: (VRMS minimum at sea level)*

RG-316	1000
RG-58	1500
RG-142	1500

Insulation Resistance: 5000 megohms minimum

Contact Resistance: (milliohms maximum)

	Initial	After Environmental
Center contact	3.0	4.0
Outer contact	2.0	N/A
Braid to body	5.0	N/A

** All gold plated parts include a .00005" min. nickel underplate barrier layer.

*Avoid user injury due to misapplication.

See safety advisory definitions inside front cover.

MECHANICAL RATINGS

Engagement Design: MIL-STD-348, series N

Engagement Force/Disengagement Force: 6 inch-pounds maximum

Mating Torque: 6 to 10 inch-pounds

Cable Retention: Axial Force (lbs)*

RG-316	20
RG-58	40
RG-142	45

* Or cable breaking strength whichever is less.

Durability: 500 cycles minimum

ENVIRONMENTAL RATINGS

(Meets or exceeds the applicable paragraph of MIL-C-39012)

Temperature Range: - 65°C to + 165°C

Thermal Shock: MIL-STD-202, Method 107, Condition B

Corrosion: MIL-STD-202, Method 101, Condition B

Shock: MIL-STD-202, Method 213, Condition I

Vibration: MIL-STD-202, Method 204, Condition B

Moisture Resistance: MIL-STD-202, Method 106

MATERIAL SPECIFICATIONS

Bodies: Main body - zinc per ASTM B86-71, nickel plated per QQ-N-290

Rear body - brass per QQ-B-626, nickel plated per QQ-N-290

Contacts: Beryllium copper per QQ-C-530, gold plated** per MIL-G-45204, .00001" min.

Insulators: PTFE fluorocarbon per ASTM D 1710 and ASTM D 1457

Crimp Sleeves: Copper per WW-T-799, nickel plated per QQ-N-290

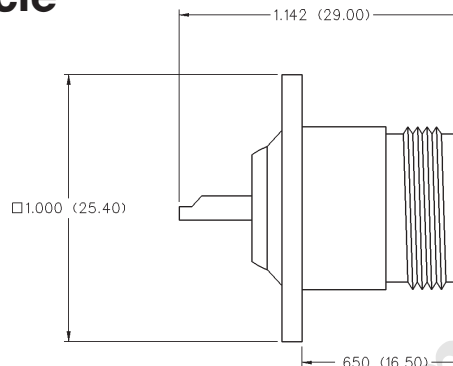
Mounting Hardware:

Nut - brass per QQ-B-626, nickel plated per QQ-N-290

Lockwasher - steel per QQ-S-700, zinc plated per QQ-Z-325

Flange Mount Jack Receptacle

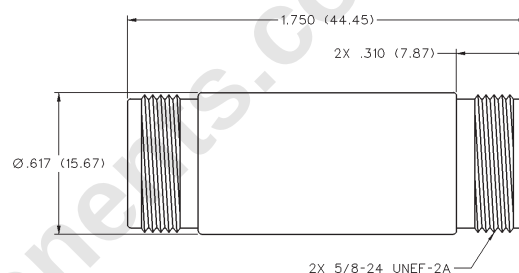
PART NO.
CP-AD801



Mounting hole layout figure 34 page 204.

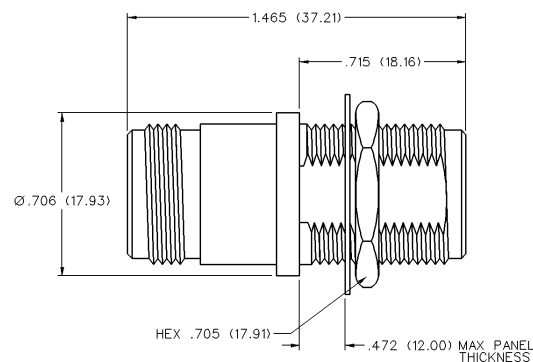
Jack to Jack Adapter

PART NO.
CP-AD850



Jack to Bulkhead Jack Adapter

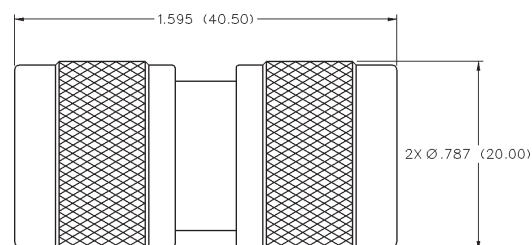
PART NO.
CP-AD851



Mounting hole layout figure 33 page 204.

Plug to Plug Adapter

PART NO.
CP-AD800



The F Connector provides economical distribution of audio/video TV signals. The F Plug Connector typically employs the center conductor of the cable as the male contact for quick assembly in the field.

Specifications*

F Series

Electrical Characteristics

Impedance: 75 Ohms

Frequency range: 0-750 MHz

Working voltage: 500 VRMS max at sea level

Dielectric withstanding voltage: 1500 VRMS max at sea level

Insulation resistance: 5000 megohms

Environmental Characteristics

Temperature range: -55°C to +85°C

Moisture resistance: MIL-STD-202

Mechanical Characteristics

Durability: 100 cycles

Cable retention: 20 lbs.

* These values are typical and may not apply to all connectors.

F Series Connectors

For Flexible Cable

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS


EMERSON
Network Power

F Series Connectors For RG-59

Straight Crimp Plug
w/separate 1/4" crimp ring



CPF-59 -1/4

Crimp Tool
24-7710

Hex Size
.255 (6.48)

Straight Crimp Plug
w/separate 1/2" crimp ring



CPF-59 -1/2

Crimp Tool
24-7710

Hex Size
.255 (6.48)

Straight Crimp Plug
for standard RG-59 cable



CPF-59-ALM

Crimp Tool
24-7710

Hex Size
.322 (8.18)

Straight Crimp Plug
compression F RG-59 dual
Tri/Shield



CPF-59-CP

Compression Tool
24-7713P

F Series Connectors For RG-6

Straight Crimp Plug
for RG-6

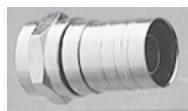


CPF-56-ALM

Crimp Tool
24-7710

Hex Size
.322 (8.18)

Straight Crimp Plug
for Tri-Shield



CPF-56-ALX

Crimp Tool
24-7710

Hex Size
.322 (8.18)

Straight Crimp Plug
for RG-6 Quad Shield

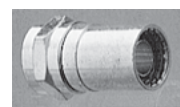


CPF-56-ALS

Crimp Tool
24-7712P

Hex Size
.359 (9.12)

Straight Crimp Plug
for Teflon/Plenum RG-6



CPF-56-P

Crimp Tool
24-7710

Hex Size
.322 (8.18)

Straight Crimp Plug
.324 dia., chrome plated/
interior gasket for water proofing



CPF-56-ALMWP

Crimp Tool
24-7710

Hex Size
.322 (8.18)

Straight Plug
twist on (no crimp)



CPF-56

Straight Crimp Plug
compression F RG-6
Dual/Tri/Shield



CPF-56-CP

Compression Tool
24-7713P

F Series Connector For RG-11

Straight Crimp Plug
for standard RG-11



CPF-11-ALM

Crimp Tool
24-7711P

Hex Size
.448 (11.38)

F Series Connectors

F Straight and Right Angle PC Mount Connectors

Side Edge Mount
PCB Jack



CPF-61-SE

Board Thickness .062 (1.57)

Vertical Mount
PCB Jack



CPF-61-PC

Right Angle Mount
PCB Bulkhead Jack



CPF-61-SR

F Plug Termination

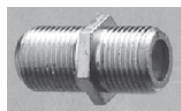
Plug Termination
75 Ohm "F",
1/2 watt 5% terminator



CPF-59-T

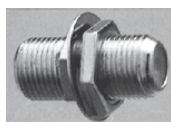
F In-Series Adapters

Jack to Jack Adapter
3/4" inline splice



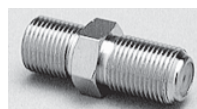
CPF-81

Jack to Jack Adapter
3/4" w/ nut and washer



CPF-81-NW

Jack to Jack Adapter
1" inline splice



CPF-81-L

Nut and Washer
For use with all F Bulkhead
mounts/splices



CPF-NW

The UHF connectors are low cost, general purpose units designed for low frequency system applications. These commercial quality connectors are equipped with threaded coupling interfaces for secure and reliable connections. The standard UHF and Mini-UHF connectors are not intermateable.

Specifications*

Standard UHF

Electrical Characteristics

Impedance: Non-constant

Frequency range: 0-500 MHz

Working voltage: 500 volts RMS at sea level

Dielectric withstanding voltage: 1500 volts RMS at sea level

Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to +85°C

Mechanical Characteristics

Durability: 500 cycles

Cable retention: 20 lbs., RG-58 C/U cable

Materials

Body and coupling nut: Zinc or Brass

Contact: Beryllium copper or Brass

Crimp Sleeve: Brass

Insulator: Delrin®

Plating: Body - Nickel

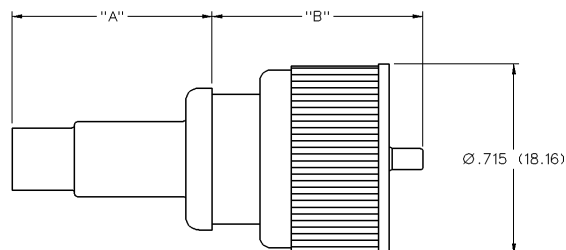
Crimp sleeve - Nickel

Contact - Gold or Nickel

* These values are typical and may not apply to all connectors.

Delrin® is a registered trademark of Dupont Corporation.

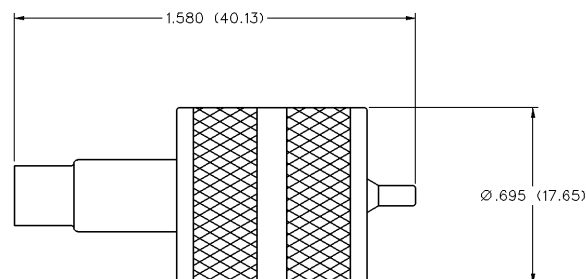
Straight Crimp Type Plug - Crimp Contact



PART NO.	CABLE TYPE	"A"	"B"	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPL-259-1	RG-58	.754 (19.15)	.810 (20.57)	20	.0325 (0.83)	.185 (4.70)-.205 (5.21)
CPL-259-2	RG-59, 62	.688 (17.48)	.810 (20.57)	22	.0253 (0.64)	.220 (5.59)-.250 (6.35)
CPL-259-7	RG-58 COPHASE	.700 (17.78)	.832 (21.13)	2/20	2/.032 (0.81)	2/.185 (4.70)-.205 (5.21)
CPL-259-8	RG-8	.694 (17.63)	.820 (20.83)	13	.085 (2.16)	.400 (10.16)-.410 (10.41)
CPL-259-9	RG-59 COPHASE	.700 (17.78)	.856 (21.74)	2/22	2/.025 (0.64)	2/.220 (5.59)
CPL-259-10*	RG-59 PLENUM	.696 (17.68)	.710 (18.03)	20	.0325 (0.83)	.205 (5.21)-.220 (5.59)
CPL-259-17	RG-8X (MINI 8)	.696 (17.68)	.710 (18.03)	16	.0504 (1.28)	.220 (5.59)-.250 (6.35)

Assembly instructions page 256. *1-Piece

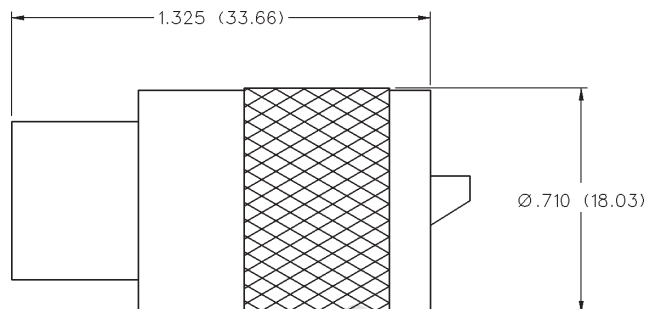
Straight Crimp Type Plug - Crimp Contact, Double Nut



PART NO.	CABLE TYPE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPL-259-18	RG-58	20	.0325 (0.88)	.185 (4.70)-.205 (5.21)

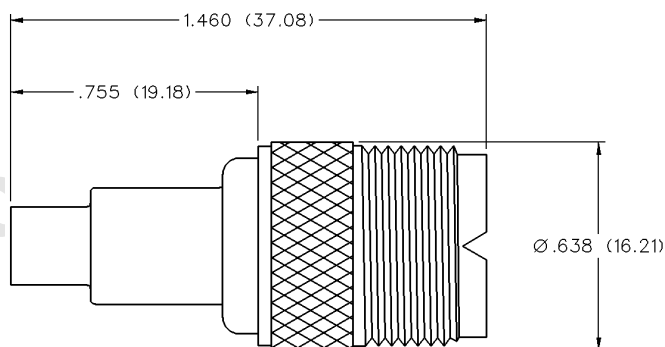
Assembly instructions page 256.

Straight Solder Type Plug



PART NO.	CABLE TYPE	DESCRIPTION
CP-AD250	RG-8, 213	Standard, PL-259

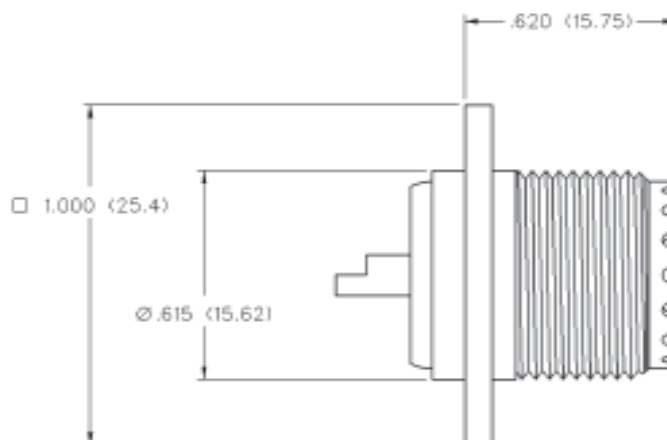
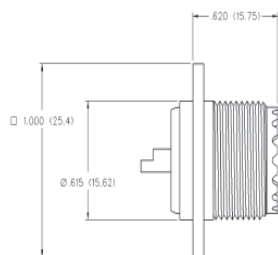
Straight Crimp Type Jack to Center - Conductor Twist-On - 2 Piece



PART NO.	CABLE TYPE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPF-249-1	RG-58	20	.0325 (0.83)	.185 (4.70)-.205 (5.21)

Assembly instructions page 257.

4-Hole Flange Mount Jack

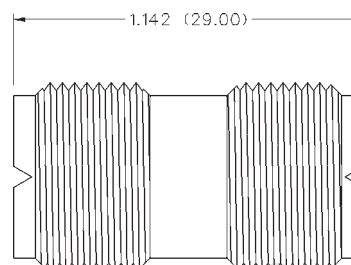


PART NO.
CP-AD206

Jack to Jack Adapter



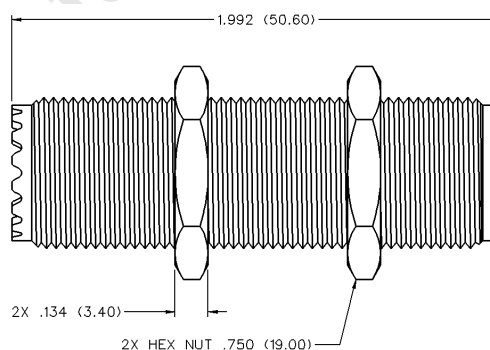
PART NO.
CP-AD204



Bulkhead Jack to Bulkhead Jack Adapter



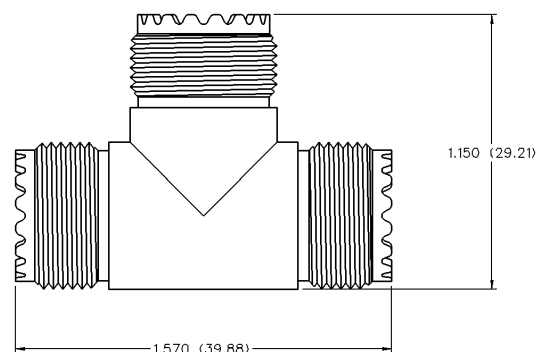
PART NO.
CP-AD207



Jack to Jack to Jack T Adapter



PART NO.
CP-AD210



Mini-UHF connectors are low cost, general purpose units designed for low frequency system applications. These commercial quality connectors are equipped with threaded coupling interfaces for secure and reliable connections. The standard UHF and Mini-UHF connectors are not intermateable.

Specifications*

Mini-UHF

Electrical Characteristics

Impedance: Non-constant

Frequency range: 0-2 GHz

Working voltage: 500 volts RMS at sea level

Dielectric withstanding voltage: 1500 volts RMS at sea level

Insulation resistance: 5000 megohms minimum

Environmental Characteristics

Recommended temperature range: -55°C to +85°C

Mechanical Characteristics

Durability: 500 cycles

Cable retention: 20 lbs., RG-58 C/U cable

Materials

Body and coupling nut: Zinc or Brass

Contact: Brass

Crimp Sleeve: Brass

Insulator: TPX Polymethylpetene

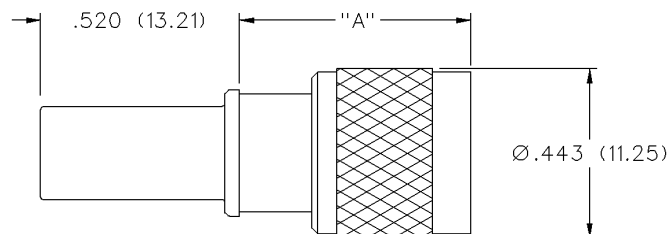
Plating: Body - Nickel

Crimp sleeve - Nickel

Contact - Gold or Nickel

* These values are typical and may not apply to all connectors.

Straight Crimp Type Plug - Solder or Crimp Contact



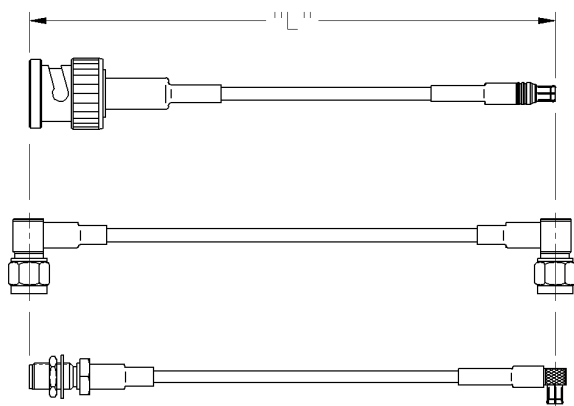
PART NO.	CABLE TYPE	"A"	CONTACT I.D.	BODY I.D.	SLEEVE I.D.
MINI-UHF-1	RG-58	.610 (15.49)	.044 (1.12)	.126 (3.20)	.206 (5.23)
MINI-UHF-1B	RG-58 Black UV Coating	.613 (15.57)	.044 (1.12)	.126 (3.20)	.206 (5.23)
MINI-UHF-2	RG-59, 62	.613 (15.57)	.034 (0.86)	.173 (4.39)	.261 (6.63)
MINI-UHF-16	PROFLEX RG-450	.610 (15.49)	.055 (1.40)	.173 (4.39)	.261 (6.63)
MINI-UHF-17	RG-8X (MINI 8)	.600 (15.24)	.065 (1.65)	.173 (4.39)	.261 (6.63)

Assembly instructions page 258.

Electrical Ratings

Electrical ratings of a cable assembly are determined by the limiting connector type and cable size.

Connector	Cable	Connector Impedance (Ohms)	Frequency (GHz)	Dielectric Withstanding Voltage (VRMS)	Working Voltage (VRMS)
MCX	RG-178	50	6	750 VRMS	250 VRMS
	RG-316	50	6	1000 VRMS	335 VRMS
	RG-316 DS	50	6	1000 VRMS	335 VRMS
MCX 75 Ohm	RG-179	75	6	1000 VRMS	335 VRMS
	BELDEN 735A	75	6	1000 VRMS	335 VRMS
SMA	RG-178	50	12.4	500 VRMS	170 VRMS
	RG-316	50	12.4	750 VRMS	250 VRMS
	RG-316 DS	50	12.4	750 VRMS	250 VRMS
	RG-58	50	12.4	1000 VRMS	335 VRMS
	RG-142	50	12.4	1000 VRMS	335 VRMS
SMB	RG-178	50	4	750 VRMS	250 VRMS
	RG-316	50	4	1000 VRMS	335 VRMS
SMB Mini 75 Ohm	RG-179	75	2	1000 VRMS	335 VRMS
	RG-179 DS	75	2	1000 VRMS	335 VRMS
	BELDEN 735A	75	2	1000 VRMS	335 VRMS
BNC	RG-58	50	4	1500 VRMS	500 VRMS
	BELDEN 8218	50	4	1500 VRMS	500 VRMS
	RG-59	50	4	1500 VRMS	500 VRMS
	RG-59 PLENUM	50	4	1500 VRMS	500 VRMS
BNC True 75 Ohm	BELDEN 8218	75	3	1500 VRMS	500 VRMS
	RG-59	75	3	1500 VRMS	500 VRMS
	BELDEN 8281	75	3	1500 VRMS	500 VRMS
	COMMSCOPE 735	75	3	1500 VRMS	500 VRMS
	BELDEN 735A	75	3	1500 VRMS	500 VRMS
	BELDEN 734A	75	3	1500 VRMS	500 VRMS
	BELDEN 1694A	75	3	1500 VRMS	500 VRMS
N	RG-58	50	11	1500 VRMS	500 VRMS
	RG-142	50	11	1500 VRMS	500 VRMS
	RG-8	50	11	1500 VRMS	500 VRMS
	RG-213	50	11	1500 VRMS	500 VRMS



Cable length is measured to the end of straight connectors and the vertical centroid of right angle connectors.

**MCX Straight Plug to
MCX Straight Plug**

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0014-006	RG-178	6"	133-3402-001	133-3402-001
415-0014-012	RG-178	12"	133-3402-001	133-3402-001
415-0014-018	RG-178	18"	133-3402-001	133-3402-001
415-0014-024	RG-178	24"	133-3402-001	133-3402-001
415-0014-030	RG-178	30"	133-3402-001	133-3402-001
415-0014-036	RG-178	36"	133-3402-001	133-3402-001
415-0018-006	RG-316	6"	133-3403-001	133-3403-001
415-0018-012	RG-316	12"	133-3403-001	133-3403-001
415-0018-018	RG-316	18"	133-3403-001	133-3403-001



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0018-024	RG-316	24"	133-3403-001	133-3403-001
415-0018-030	RG-316	30"	133-3403-001	133-3403-001
415-0018-036	RG-316	36"	133-3403-001	133-3403-001
415-0020-006	RG-316-DS	6"	133-3404-001	133-3404-001
415-0020-012	RG-316-DS	12"	133-3404-001	133-3404-001
415-0020-018	RG-316-DS	18"	133-3404-001	133-3404-001
415-0020-024	RG-316-DS	24"	133-3404-001	133-3404-001
415-0020-030	RG-316-DS	30"	133-3404-001	133-3404-001
415-0020-036	RG-316-DS	36"	133-3404-001	133-3404-001

**MCX Straight Plug to
MCX Straight Bulkhead Jack**

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0016-006	RG-316	6"	133-3403-001	133-3303-401
415-0016-012	RG-316	12"	133-3403-001	133-3303-401
415-0016-018	RG-316	18"	133-3403-001	133-3303-401



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0016-024	RG-316	24"	133-3403-001	133-3303-401
415-0016-030	RG-316	30"	133-3403-001	133-3303-401
415-0016-036	RG-316	36"	133-3403-001	133-3303-401

**MCX Straight Plug to
MCX Right Angle Plug**

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0017-006	RG-316	6"	133-3403-001	133-3403-101
415-0017-012	RG-316	12"	133-3403-001	133-3403-101
415-0017-018	RG-316	18"	133-3403-001	133-3403-101



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0017-030	RG-316	30"	133-3403-001	133-3403-101
415-0017-036	RG-316	36"	133-3403-001	133-3403-101

**MCX Right Angle Plug to
MCX Right Angle Plug**

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0015-006	RG-178	6"	133-3402-101	133-3402-101
415-0015-012	RG-178	12"	133-3402-101	133-3402-101
415-0015-018	RG-178	18"	133-3402-101	133-3402-101
415-0015-024	RG-178	24"	133-3402-101	133-3402-101
415-0015-030	RG-178	30"	133-3402-101	133-3402-101
415-0015-036	RG-178	36"	133-3402-101	133-3402-101
415-0019-006	RG-316	6"	133-3403-101	133-3403-101
415-0019-012	RG-316	12"	133-3403-101	133-3403-101
415-0019-018	RG-316	18"	133-3403-101	133-3403-101



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0019-024	RG-316	24"	133-3403-101	133-3403-101
415-0019-030	RG-316	30"	133-3403-101	133-3403-101
415-0019-036	RG-316	36"	133-3403-101	133-3403-101
415-0021-006	RG-316-DS	6"	133-3404-101	133-3404-101
415-0021-012	RG-316-DS	12"	133-3404-101	133-3404-101
415-0021-018	RG-316-DS	18"	133-3404-101	133-3404-101
415-0021-024	RG-316-DS	24"	133-3404-101	133-3404-101
415-0021-030	RG-316-DS	30"	133-3404-101	133-3404-101
415-0021-036	RG-316-DS	36"	133-3404-101	133-3404-101

**MCX 75 Ohm Straight Plug to
MCX 75 Ohm Straight Plug**

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0022-006	RG-179	6"	133-8433-001	133-8433-001
415-0022-012	RG-179	12"	133-8433-001	133-8433-001
415-0022-018	RG-179	18"	133-8433-001	133-8433-001
415-0022-024	RG-179	24"	133-8433-001	133-8433-001
415-0022-030	RG-179	30"	133-8433-001	133-8433-001
415-0022-036	RG-179	36"	133-8433-001	133-8433-001



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0023-006	Belden 735 A	6"	133-8445-001	133-8445-001
415-0023-012	Belden 735 A	12"	133-8445-001	133-8445-001
415-0023-018	Belden 735 A	18"	133-8445-001	133-8445-001
415-0023-024	Belden 735 A	24"	133-8445-001	133-8445-001
415-0023-030	Belden 735 A	30"	133-8445-001	133-8445-001
415-0023-036	Belden 735 A	36"	133-8445-001	133-8445-001

Fixed Length Cable Assemblies

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS



INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

MCX 75 Ohm Right Angle Plug to MCX 75 Ohm Right Angle Plug



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0024-006	Belden 735 A	6"	133-8445-101	133-8445-101
415-0024-012	Belden 735 A	12"	133-8445-101	133-8445-101
415-0024-018	Belden 735 A	18"	133-8445-101	133-8445-101

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0024-024	Belden 735 A	24"	133-8445-101	133-8445-101
415-0024-030	Belden 735 A	30"	133-8445-101	133-8445-101
415-0024-036	Belden 735 A	36"	133-8445-101	133-8445-101

SMA Straight Plug to SMA Straight Plug



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0025-006	RG-178	6"	142-0402-011	142-0402-011
415-0025-012	RG-178	12"	142-0402-011	142-0402-011
415-0025-018	RG-178	18"	142-0402-011	142-0402-011
415-0025-024	RG-178	24"	142-0402-011	142-0402-011
415-0025-036	RG-178	36"	142-0402-011	142-0402-011
415-0025-048	RG-178	48"	142-0402-011	142-0402-011
415-0029-006	RG-316	6"	142-0403-011	142-0403-011
415-0029-012	RG-316	12"	142-0403-011	142-0403-011
415-0029-018	RG-316	18"	142-0403-011	142-0403-011
415-0029-024	RG-316	24"	142-0403-011	142-0403-011
415-0029-036	RG-316	36"	142-0403-011	142-0403-011
415-0029-048	RG-316	48"	142-0403-011	142-0403-011
415-0033-006	RG-316 DS	6"	142-0404-011	142-0404-011
415-0033-012	RG-316 DS	12"	142-0404-011	142-0404-011

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0033-018	RG-316 DS	18"	142-0404-011	142-0404-011
415-0033-024	RG-316 DS	24"	142-0404-011	142-0404-011
415-0033-036	RG-316 DS	36"	142-0404-011	142-0404-011
415-0033-048	RG-316 DS	48"	142-0404-011	142-0404-011
415-0038-012	RG-58	12"	142-0407-011	142-0407-011
415-0038-024	RG-58	24"	142-0407-011	142-0407-011
415-0038-036	RG-58	36"	142-0407-011	142-0407-011
415-0038-048	RG-58	48"	142-0407-011	142-0407-011
415-0038-060	RG-58	60"	142-0407-011	142-0407-011
415-0043-012	RG-142	12"	142-0408-011	142-0408-011
415-0043-024	RG-142	24"	142-0408-011	142-0408-011
415-0043-036	RG-142	36"	142-0408-011	142-0408-011
415-0043-048	RG-142	48"	142-0408-011	142-0408-011
415-0043-060	RG-142	60"	142-0408-011	142-0408-011

SMA Straight Plug to SMA Straight Bulkhead Jack



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0031-006	RG-316	6"	142-0403-011	142-0303-411
415-0031-012	RG-316	12"	142-0403-011	142-0303-411
415-0031-018	RG-316	18"	142-0403-011	142-0303-411
415-0031-024	RG-316	24"	142-0403-011	142-0303-411
415-0031-036	RG-316	36"	142-0403-011	142-0303-411
415-0031-048	RG-316	48"	142-0403-011	142-0303-411
415-0035-006	RG-316 DS	6"	142-0404-011	142-0304-411
415-0035-012	RG-316 DS	12"	142-0404-011	142-0304-411
415-0035-018	RG-316 DS	18"	142-0404-011	142-0304-411
415-0035-024	RG-316 DS	24"	142-0404-011	142-0304-411
415-0035-036	RG-316 DS	36"	142-0404-011	142-0304-411

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0035-048	RG-316 DS	48"	142-0404-011	142-0304-411
415-0040-012	RG-58	12"	142-0407-011	142-0307-411
415-0040-024	RG-58	24"	142-0407-011	142-0307-411
415-0040-036	RG-58	36"	142-0407-011	142-0307-411
415-0040-048	RG-58	48"	142-0407-011	142-0307-411
415-0040-060	RG-58	60"	142-0407-011	142-0307-411
415-0045-012	RG-142	12"	142-0408-011	142-0308-411
415-0045-024	RG-142	24"	142-0408-011	142-0308-411
415-0045-036	RG-142	36"	142-0408-011	142-0308-411
415-0045-048	RG-142	48"	142-0408-011	142-0308-411
415-0045-060	RG-142	60"	142-0408-011	142-0308-411

SMA Straight Plug to SMA Right Angle Plug



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0026-006	RG-178	6"	142-0402-011	142-0402-101
415-0026-012	RG-178	12"	142-0402-011	142-0402-101
415-0026-018	RG-178	18"	142-0402-011	142-0402-101
415-0026-024	RG-178	24"	142-0402-011	142-0402-101
415-0026-036	RG-178	36"	142-0402-011	142-0402-101
415-0026-048	RG-178	48"	142-0402-011	142-0402-101
415-0030-006	RG-316	6"	142-0403-011	142-0403-101
415-0030-012	RG-316	12"	142-0403-011	142-0403-101
415-0030-018	RG-316	18"	142-0403-011	142-0403-101
415-0030-024	RG-316	24"	142-0403-011	142-0403-101
415-0030-036	RG-316	36"	142-0403-011	142-0403-101
415-0030-048	RG-316	48"	142-0403-011	142-0403-101
415-0034-006	RG-316 DS	6"	142-0404-011	142-0404-101
415-0034-012	RG-316 DS	12"	142-0404-011	142-0404-101

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0034-018	RG-316 DS	18"	142-0404-011	142-0404-101
415-0034-024	RG-316 DS	24"	142-0404-011	142-0404-101
415-0034-036	RG-316 DS	36"	142-0404-011	142-0404-101
415-0034-048	RG-316 DS	48"	142-0404-011	142-0404-101
415-0039-012	RG-58	12"	142-0407-011	142-0407-101
415-0039-024	RG-58	24"	142-0407-011	142-0407-101
415-0039-036	RG-58	36"	142-0407-011	142-0407-101
415-0039-048	RG-58	48"	142-0407-011	142-0407-101
415-0039-060	RG-58	60"	142-0407-011	142-0407-101
415-0044-012	RG-142	12"	142-0408-011	142-0408-101
415-0044-024	RG-142	24"	142-0408-011	142-0408-101
415-0044-036	RG-142	36"	142-0408-011	142-0408-101
415-0044-048	RG-142	48"	142-0408-011	142-0408-101
415-0044-060	RG-142	60"	142-0408-011	142-0408-101

SMA Right Angle Plug to
SMA Right Angle Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0027-006	RG-178	6"	142-0402-101	142-0402-101
415-0027-012	RG-178	12"	142-0402-101	142-0402-101
415-0027-018	RG-178	18"	142-0402-101	142-0402-101
415-0027-024	RG-178	24"	142-0402-101	142-0402-101
415-0027-036	RG-178	36"	142-0402-101	142-0402-101
415-0027-048	RG-178	48"	142-0402-101	142-0402-101
415-0032-006	RG-316	6"	142-0403-101	142-0403-101
415-0032-012	RG-316	12"	142-0403-101	142-0403-101
415-0032-018	RG-316	18"	142-0403-101	142-0403-101
415-0032-024	RG-316	24"	142-0403-101	142-0403-101
415-0032-036	RG-316	36"	142-0403-101	142-0403-101
415-0032-048	RG-316	48"	142-0403-101	142-0403-101
415-0036-006	RG-316 DS	6"	142-0404-101	142-0404-101
415-0036-012	RG-316 DS	12"	142-0404-101	142-0404-101

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0036-018	RG-316 DS	18"	142-0404-101	142-0404-101
415-0036-024	RG-316 DS	24"	142-0404-101	142-0404-101
415-0036-036	RG-316 DS	36"	142-0404-101	142-0404-101
415-0036-048	RG-316 DS	48"	142-0404-101	142-0404-101
415-0041-012	RG-58	12"	142-0407-101	142-0407-101
415-0041-024	RG-58	24"	142-0407-101	142-0407-101
415-0041-036	RG-58	36"	142-0407-101	142-0407-101
415-0041-048	RG-58	48"	142-0407-101	142-0407-101
415-0041-060	RG-58	60"	142-0407-101	142-0407-101
415-0046-012	RG-142	12"	142-0408-101	142-0408-101
415-0046-024	RG-142	24"	142-0408-101	142-0408-101
415-0046-036	RG-142	36"	142-0408-101	142-0408-101
415-0046-048	RG-142	48"	142-0408-101	142-0408-101
415-0046-060	RG-142	60"	142-0408-101	142-0408-101

SMB Straight Plug to
SMB Straight Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0003-006	RG-316	6"	131-1403-001	131-1403-001
415-0003-012	RG-316	12"	131-1403-001	131-1403-001
415-0003-018	RG-316	18"	131-1403-001	131-1403-001

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0003-024	RG-316	24"	131-1403-001	131-1403-001
415-0003-030	RG-316	30"	131-1403-001	131-1403-001
415-0003-036	RG-316	36"	131-1403-001	131-1403-001

SMB Straight Plug to
SMB Right Angle Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0002-006	RG-316	6"	131-1403-001	131-1403-101
415-0002-012	RG-316	12"	131-1403-001	131-1403-101
415-0002-018	RG-316	18"	131-1403-001	131-1403-101
415-0002-024	RG-316	24"	131-1403-001	131-1403-101
415-0002-030	RG-316	30"	131-1403-001	131-1403-101
415-0002-036	RG-316	36"	131-1403-001	131-1403-101
415-0005-006	RG-316 DS	6"	131-1404-001	131-1404-101
415-0005-012	RG-316 DS	12"	131-1404-001	131-1404-101
415-0005-018	RG-316 DS	18"	131-1404-001	131-1404-101

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0005-024	RG-316 DS	24"	131-1404-001	131-1404-101
415-0005-030	RG-316 DS	30"	131-1404-001	131-1404-101
415-0005-036	RG-316 DS	36"	131-1404-001	131-1404-101
415-0007-006	RG-178	6"	131-3402-001	131-1402-101
415-0007-012	RG-178	12"	131-3402-001	131-1402-101
415-0007-018	RG-178	18"	131-3402-001	131-1402-101
415-0007-024	RG-178	24"	131-3402-001	131-1402-101
415-0007-030	RG-178	30"	131-3402-001	131-1402-101
415-0007-036	RG-178	36"	131-3402-001	131-1402-101

SMB Right Angle Plug to
SMB Right Angle Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0001-006	RG-178	6"	131-1402-101	131-1402-101
415-0001-012	RG-178	12"	131-1402-101	131-1402-101
415-0001-018	RG-178	18"	131-1402-101	131-1402-101
415-0001-024	RG-178	24"	131-1402-101	131-1402-101
415-0001-030	RG-178	30"	131-1402-101	131-1402-101
415-0001-036	RG-178	36"	131-1402-101	131-1402-101
415-0004-006	RG-316	6"	131-1403-101	131-1403-101
415-0004-012	RG-316	12"	131-1403-101	131-1403-101
415-0004-018	RG-316	18"	131-1403-101	131-1403-101

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0004-024	RG-316	24"	131-1403-101	131-1403-101
415-0004-030	RG-316	30"	131-1403-101	131-1403-101
415-0004-036	RG-316	36"	131-1403-101	131-1403-101
415-0006-006	RG-316 DS	6"	131-1404-101	131-1404-101
415-0006-012	RG-316 DS	12"	131-1404-101	131-1404-101
415-0006-018	RG-316 DS	18"	131-1404-101	131-1404-101
415-0006-024	RG-316 DS	24"	131-1404-101	131-1404-101
415-0006-030	RG-316 DS	30"	131-1404-101	131-1404-101
415-0006-036	RG-316 DS	36"	131-1404-101	131-1404-101

SMB Mini-75 Ohm Straight Plug to SMB Mini-75 Ohm Straight Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0008-006	RG-179	6"	131-8403-011	131-8403-011
415-0008-012	RG-179	12"	131-8403-011	131-8403-011
415-0008-018	RG-179	18"	131-8403-011	131-8403-011
415-0008-024	RG-179	24"	131-8403-011	131-8403-011
415-0008-030	RG-179	30"	131-8403-011	131-8403-011
415-0008-036	RG-179	36"	131-8403-011	131-8403-011
415-0010-006	RG-179 DS	6"	131-8404-011	131-8404-011
415-0010-012	RG-179 DS	12"	131-8404-011	131-8404-011
415-0010-018	RG-179 DS	18"	131-8404-011	131-8404-011



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0010-024	RG-179 DS	24"	131-8404-011	131-8404-011
415-0010-030	RG-179 DS	30"	131-8404-011	131-8404-011
415-0010-036	RG-179 DS	36"	131-8404-011	131-8404-011
415-0012-006	Belden 735 A	6"	131-8445-001	131-8445-001
415-0012-012	Belden 735 A	12"	131-8445-001	131-8445-001
415-0012-018	Belden 735 A	18"	131-8445-001	131-8445-001
415-0012-024	Belden 735 A	24"	131-8445-001	131-8445-001
415-0012-030	Belden 735 A	30"	131-8445-001	131-8445-001
415-0012-036	Belden 735 A	36"	131-8445-001	131-8445-001

SMB Mini-75 Ohm Right Angle Plug to SMB Mini-75 Ohm Right Angle Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0009-006	RG-179	6"	131-8403-111	131-8403-111
415-0009-012	RG-179	12"	131-8403-111	131-8403-111
415-0009-018	RG-179	18"	131-8403-111	131-8403-111
415-0009-024	RG-179	24"	131-8403-111	131-8403-111
415-0009-030	RG-179	30"	131-8403-111	131-8403-111
415-0009-036	RG-179	36"	131-8403-111	131-8403-111
415-0011-006	RG-179 DS	6"	131-8404-111	131-8404-111
415-0011-012	RG-179 DS	12"	131-8404-111	131-8404-111
415-0011-018	RG-179 DS	18"	131-8404-111	131-8404-111



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0011-024	RG-179 DS	24"	131-8404-111	131-8404-111
415-0011-030	RG-179 DS	30"	131-8404-111	131-8404-111
415-0011-036	RG-179 DS	36"	131-8404-111	131-8404-111
415-0013-006	Belden 735 A	6"	131-8445-101	131-8445-101
415-0013-012	Belden 735 A	12"	131-8445-101	131-8445-101
415-0013-018	Belden 735 A	18"	131-8445-101	131-8445-101
415-0013-024	Belden 735 A	24"	131-8445-101	131-8445-101
415-0013-030	Belden 735 A	30"	131-8445-101	131-8445-101
415-0013-036	Belden 735 A	36"	131-8445-101	131-8445-101

N Straight Plug to N Straight Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0058-012	RG-58	12"	CPN-1	CPN-1
415-0058-024	RG-58	24"	CPN-1	CPN-1
415-0058-036	RG-58	36"	CPN-1	CPN-1
415-0058-048	RG-58	48"	CPN-1	CPN-1
415-0058-060	RG-58	60"	CPN-1	CPN-1
415-0060-012	RG-142	12"	CPN-142T	CPN-142T
415-0060-024	RG-142	24"	CPN-142T	CPN-142T
415-0060-036	RG-142	36"	CPN-142T	CPN-142T
415-0060-048	RG-142	48"	CPN-142T	CPN-142T
415-0060-060	RG-142	60"	CPN-142T	CPN-142T



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0062-012	RG-8	12"	CPN-8	CPN-8
415-0062-024	RG-8	24"	CPN-8	CPN-8
415-0062-036	RG-8	36"	CPN-8	CPN-8
415-0062-048	RG-8	48"	CPN-8	CPN-8
415-0062-060	RG-8	60"	CPN-8	CPN-8
415-0063-012	RG-213	12"	CPN-8	CPN-8
415-0063-024	RG-213	24"	CPN-8	CPN-8
415-0063-036	RG-213	36"	CPN-8	CPN-8
415-0063-048	RG-213	48"	CPN-8	CPN-8
415-0063-060	RG-213	60"	CPN-8	CPN-8

BNC Straight Plug to
BNC Straight Plug

With Boot

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0054-012	RG-58	12"	CPMC-88-1	CPMC-88-1
415-0054-024	RG-58	24"	CPMC-88-1	CPMC-88-1
415-0054-036	RG-58	36"	CPMC-88-1	CPMC-88-1
415-0054-048	RG-58	48"	CPMC-88-1	CPMC-88-1
415-0054-060	RG-58	60"	CPMC-88-1	CPMC-88-1
415-0055-012	RG-59 TFE	12"	CPMC-88-10	CPMC-88-10
415-0055-024	RG-59 TFE	24"	CPMC-88-10	CPMC-88-10
415-0055-036	RG-59 TFE	36"	CPMC-88-10	CPMC-88-10
415-0055-048	RG-59 TFE	48"	CPMC-88-10	CPMC-88-10
415-0055-060	RG-59 TFE	60"	CPMC-88-10	CPMC-88-10
415-0057-012	RG-59	12"	CPMC-88-2	CPMC-88-2
415-0057-024	RG-59	24"	CPMC-88-2	CPMC-88-2
415-0057-036	RG-59	36"	CPMC-88-2	CPMC-88-2
415-0057-048	RG-59	48"	CPMC-88-2	CPMC-88-2
415-0057-060	RG-59	60"	CPMC-88-2	CPMC-88-2

With Heat Shrink

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0056-012	Belden 8218	12"	CPMC-88-18	CPMC-88-18
415-0056-024	Belden 8218	24"	CPMC-88-18	CPMC-88-18
415-0056-036	Belden 8218	36"	CPMC-88-18	CPMC-88-18
415-0056-048	Belden 8218	48"	CPMC-88-18	CPMC-88-18
415-0056-060	Belden 8218	60"	CPMC-88-18	CPMC-88-18

BNC True 75 Ohm Straight Plug to
BNC True 75 Ohm Straight Plug

With Boot

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0048-012	RG-59	12"	CPMC-68-2	CPMC-68-2
415-0048-024	RG-59	24"	CPMC-68-2	CPMC-68-2
415-0048-036	RG-59	36"	CPMC-68-2	CPMC-68-2
415-0048-048	RG-59	48"	CPMC-68-2	CPMC-68-2
415-0048-060	RG-59	60"	CPMC-68-2	CPMC-68-2
415-0052-012	Belden 734 A	12"	CPMC-68-35	CPMC-68-35
415-0052-024	Belden 734 A	24"	CPMC-68-35	CPMC-68-35
415-0052-036	Belden 734 A	36"	CPMC-68-35	CPMC-68-35
415-0052-048	Belden 734 A	48"	CPMC-68-35	CPMC-68-35
415-0052-060	Belden 734 A	60"	CPMC-68-35	CPMC-68-35

With Heat Shrink

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0047-012	Belden 8218	12"	CPMC-68-18	CPMC-68-18
415-0047-024	Belden 8218	24"	CPMC-68-18	CPMC-68-18
415-0047-036	Belden 8218	36"	CPMC-68-18	CPMC-68-18
415-0047-048	Belden 8218	48"	CPMC-68-18	CPMC-68-18
415-0047-060	Belden 8218	60"	CPMC-68-18	CPMC-68-18
415-0049-012	Belden 8281	12"	CPMC-68-3	CPMC-68-3
415-0049-024	Belden 8281	24"	CPMC-68-3	CPMC-68-3
415-0049-036	Belden 8281	36"	CPMC-68-3	CPMC-68-3
415-0049-048	Belden 8281	48"	CPMC-68-3	CPMC-68-3
415-0049-060	Belden 8281	60"	CPMC-68-3	CPMC-68-3
415-0050-012	COMSCOPE 735	12"	CPMC-68-33	CPMC-68-33
415-0050-024	COMSCOPE 735	24"	CPMC-68-33	CPMC-68-33
415-0050-036	COMSCOPE 735	36"	CPMC-68-33	CPMC-68-33
415-0050-048	COMSCOPE 735	48"	CPMC-68-33	CPMC-68-33
415-0050-060	COMSCOPE 735	60"	CPMC-68-33	CPMC-68-33
415-0051-012	Belden 735 A	12"	CPMC-68-33	CPMC-68-33
415-0051-024	Belden 735 A	24"	CPMC-68-33	CPMC-68-33
415-0051-036	Belden 735 A	36"	CPMC-68-33	CPMC-68-33
415-0051-048	Belden 735 A	48"	CPMC-68-33	CPMC-68-33
415-0051-060	Belden 735 A	60"	CPMC-68-33	CPMC-68-33
415-0053-012	Belden 1694A	12"	CPMC-68-45	CPMC-68-45
415-0053-024	Belden 1694A	24"	CPMC-68-45	CPMC-68-45
415-0053-036	Belden 1694A	36"	CPMC-68-45	CPMC-68-45
415-0053-048	Belden 1694A	48"	CPMC-68-45	CPMC-68-45
415-0053-060	Belden 1694A	60"	CPMC-68-45	CPMC-68-45

SMA Straight Plug to
N Straight Plug

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0059-012	RG-58	12"	142-0407-011	CPN-1
415-0059-024	RG-58	24"	142-0407-011	CPN-1
415-0059-036	RG-58	36"	142-0407-011	CPN-1
415-0059-048	RG-58	48"	142-0407-011	CPN-1
415-0059-060	RG-58	60"	142-0407-011	CPN-1

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0061-012	RG-142	12"	142-0408-011	CPN-142T
415-0061-024	RG-142	24"	142-0408-011	CPN-142T
415-0061-036	RG-142	36"	142-0408-011	CPN-142T
415-0061-048	RG-142	48"	142-0408-011	CPN-142T
415-0061-060	RG-142	60"	142-0408-011	CPN-142T

SMA Straight Plug to BNC Straight Plug



Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0028-006	RG-316	6"	142-0403-011	CPM-88-19
415-0028-012	RG-316	12"	142-0403-011	CPM-88-19
415-0028-018	RG-316	18"	142-0403-011	CPM-88-19
415-0028-024	RG-316	24"	142-0403-011	CPM-88-19
415-0028-036	RG-316	36"	142-0403-011	CPM-88-19
415-0028-048	RG-316	48"	142-0403-011	CPM-88-19
415-0037-012	RG-58	12"	142-0407-011	CPMC-88-1
415-0037-024	RG-58	24"	142-0407-011	CPMC-88-1

Part No.	Cable Type	Cable Length	Connector A	Connector B
415-0037-036	RG-58	36"	142-0407-011	CPMC-88-1
415-0037-048	RG-58	48"	142-0407-011	CPMC-88-1
415-0037-060	RG-58	60"	142-0407-011	CPMC-88-1
415-0042-012	RG-142	12"	142-0408-011	CPMC-88-13
415-0042-024	RG-142	24"	142-0408-011	CPMC-88-13
415-0042-036	RG-142	36"	142-0408-011	CPMC-88-13
415-0042-048	RG-142	48"	142-0408-011	CPMC-88-13
415-0042-060	RG-142	60"	142-0408-011	CPMC-88-13

If you don't see the cable assembly you require, we can design and manufacture one to meet your unique specifications!



- Voltage/Continuity Test Fixture
- Interface location gauging
- VSWR Quality Assurance Scalar Analyzer
- VSWR/TDR Engineering Vector Analyzer
- CNC Hardline Bender (Semi-Rigid cables)
- Tested to customer specifications
- Flexible cable
- Conformable cable
- Semi-Rigid cable
- 0 to 40 GHz
- 50 and 75 Ohms
- Controlled impedance
- Prototype available in 2 weeks

Call 800-247-8256 to discuss your needs with a Customer Service Representative

Assembly Tools

3-Piece SMA - Contact Hand Crimp Tool	191
3-Piece SMB, MCX - Contact Hand Crimp Tool	191
“C” Spring Compression Tool	192
Economy Hand Crimp Tool	191
Hand Crimp Tool	190
MCX Right Angle Plug Assembly Tool	192
MMCX Assembly/Decoupling Tool	192
Prestige™ Coax & Telephone Cable Strippers	194
Prestige Professional Ratchet Crimp Tools	197
Prestige Ratchet and Universal Crimp Tools	195
RF and CATV Installation Tools	196
SMA Knurl Mount Assembly Tool	192
SMB Plug Removal Tool	192
SMK (2.92 mm) Tools	193

Hand Crimp Tool

Precision Astro Tool hand crimping tool makes cable assembly fast and easy. Crimping tool features interchangeable steel dies. Ratchet action of tool controls crimping operation for precise uniform ferrule crimps.



CONNECTOR TYPE	CABLE TYPE	PREFERRED DIE SET	CRIMP DIMENSIONS
MCX SMA SMB SMC	RG-178/U RG-196/U	141-0000-901	Hex = .105 (2.67) Width = .325 (8.26)
MCX SMA SMB SMC 75 Ohm SMB	RG-161/U, RG-174/U RG-179/U, RG-187/U RG-188/U, RG-316/U LMR-100	141-0000-902	Hex = .128 (3.25) Width = .400 (10.16)
	RG-188 DS, RG-316 DS RG-179 DS, RG-187 DS, BELDEN 735A	141-0000-905	Hex = .151 (3.83) Width = .400 (10.16)
MCX SMA SMB	RG-58/U RG-141/U RG-303/U RG-55/U RG-142/U RG-223/U RG-400/U LMR-195 LMR-200	141-0000-903	Hex = .213 (5.41) Width = .375 (9.52)
SMA 75 Ohm SMB	LMR-240, RG-59	141-0000-925	Hex = .255 (6.48) Width = .400 (10.16)
N Type	RG-316/U, 316 DS	141-0000-927	Hex = .160 (4.06) Width = .400 (10.16)

*Economy Hand Crimp Tool also available with four hex sizes in one tool page 191.

Ordering Information for Crimping Tool

PART NO.	DESCRIPTION	ASTRO TOOL P/N
144-0000-900	Frame Only	620175
141-0000-901	Single Hex Die	620932
141-0000-902	Single Hex Die	620419
141-0000-903	Single Hex Die	620676
141-0000-905	Single Hex Die	630055
141-0000-925	Single Hex Die	620938
141-0000-927	Single Hex Die	620297

Crimp Dies for Contacts

use with 144-0000-900

CONNECTOR TYPE	PREFERRED DIE SET	CRIMP STYLE
SMB Cross Hole Style Body 50 Ohm Only	141-0000-911	Double Diamond
Mini 75 Ohm SMB, MCX 75 Ohm Cross Hole Style Body	141-0000-924	Double Diamond

Economy Hand Crimp Tool

Hand crimp tool and die set includes all hex sizes necessary for subminiature connector applications. Ratchet tool action insures a complete crimp every time.



PART NO.	DESCRIPTION	HEX	WIDTH	CONNECTOR TYPE
140-0000-952	Hand Crimp Tool Frame Only			
140-0000-953	Die for .047" dia. flexible cable; RG-178, RG-316, RG-316 DS and Contact Crimp w/stop	.105 (2.67)	.250 (6.35)	MMCX*, MCX
		.128 (3.25)	.250 (6.35)	
		.151 (3.83)	.250 (6.35)	
		Diamond Crimp for .038 (0.96) Dia. Contact		
140-0000-951	Die for RG-178, 316, 316 DS, 58, 142, LMR-100, LMR-195, LMR-200	.105 (2.67)	.390 (9.91)	MCX, SMB, SMC, SMA, 75 OHM SMB
		.128 (3.25)	.390 (9.91)	
		.151 (3.83)	.390 (9.91)	
		.213 (5.41)	.390 (9.91)	
140-0000-955	Die for RG-179, 179 DS, 735A, RG-59, LMR-240	.128 (3.25)	.390 (9.91)	75 Ohm MCX, SMA Mini-75 Ohm SMB
		.151 (3.83)	.390 (9.91)	
		.178 (4.52)	.390 (9.91)	
		.255 (6.48)	.390 (9.91)	

*Use 140-0000-951 for MMCX straight cabled bulkhead jack body crimp.

3-Piece SMA - Contact Hand Crimp Tool

Quick and secure crimp assembly of SMA contacts to all cable sizes used by the 3-piece SMA connector line is possible. The crimp tool is used in conjunction with 141-0000-907 turret positioner which positions the crimp location on the contact with no user setup required. Set the selector to the appropriate crimp size, insert contact and cable into tool and squeeze handles of tool. A complete and accurate crimp is obtained every time, with no partial crimp. A ratchet insures a complete cycle of the tool. Automated tooling information is available on request.



PART NO.	DESCRIPTION	ASTRO TOOL PART NO.	MILITARY PART NO.
144-0000-910	Frame Only	615708	M22520/1-01
141-0000-907	Positioner	650027	N/A

3-Piece SMB, MCX - Contact Hand Crimp Tool

The micro contact crimp tool provides an accurate eight indent crimp on small diameter contacts used in the 3-Piece SMB and MCX connectors. This crimp tool is used with the 140-0000-971 Variable Positioner. Set the crimp size in the adjustment window and position the variable locator to obtain an accurate repeatable crimp on the contact.



PART NO.	DESCRIPTION	ASTRO TOOL PART NO.
140-0000-970	Frame Only	612118-1
140-0000-971	Positioner	N/A

MMCX Assembly/Decoupling Tool

This tool will assemble the end cap to a standard right angle MMCX plug connector in the field. Simply insert connector and cap into tool cavity, then turn handle to swage the cap into place. The slotted end of the tool can be used to disengage a right angle MMCX plug from a mating receptacle.



PART NO.
141-0000-910

MCX Right Angle Plug Assembly Tool

This quick and easy to use tool will press the end cap onto standard right angle MCX plug connectors. Simply insert the connector and cap into the staking nest and a light squeeze of the handles will swage the cap into place.

The jaw tips are shaped to grip a right angle MCX plug body for insertion or disengagement to a mating receptacle. The jaws are hardened steel and the handles are cushioned to minimize stress to the user. For use with all cable groups except RG-58.



PART NO.
141-0000-908

“C” Spring Compression Tool

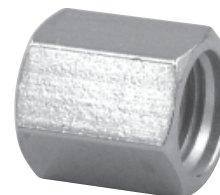
For assembly of SMA Coupling Nut



PART NO.
141-0000-904

SMA Knurl Mount Assembly Tool

The Knurl Mount SMA Spark Plug Connectors can be pressed into position using this thread-on fixture designed for low volume lab use.



PART NO.
140-0000-954

SMB Plug Removal Tool

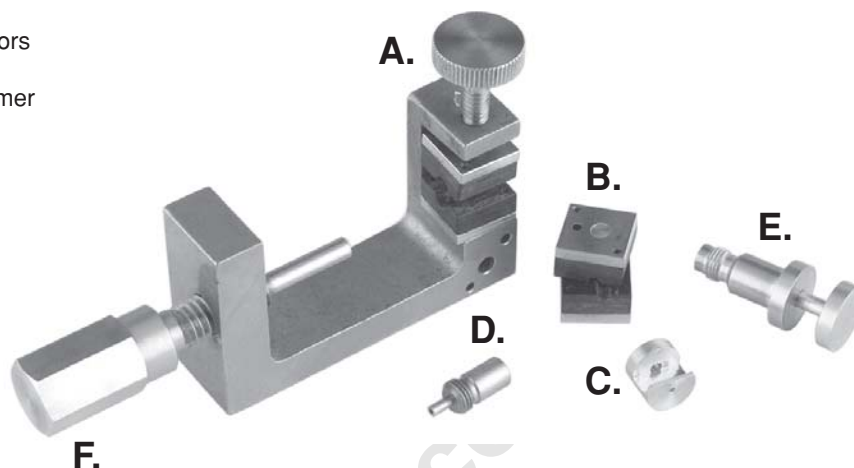
Reaches in to disengage SMB connectors in high density packaging applications.



PART NO.
140-0000-956

SMK (2.92mm) Tools

Accurate assembly of the SMK cabled connectors is obtained with the tools listed below. Industry standard devices are used if possible for customer convenience and tool compatibility.



ITEM	PART NO.	DESCRIPTION
A	140-0000-962	Semi-Rigid Cable Vise (does not include inserts (B) or Vise Stop (F))
B	140-0000-964 140-0000-965	Cable Clamp Inserts, .086 Semi-Rigid Cable Clamp Inserts, .141 Semi-Rigid
C	140-0000-960 140-0000-961	Contact Soldering Tool, .086 Plug Contact Soldering Tool, .141 Plug
D	140-0000-958 140-0000-959	Body Soldering Tool, .086 Plug Body Soldering Tool, .141 Plug
E	140-0000-957	Bead Assembly Tool, Semi-Rigid Plugs, All Cables
F	140-0000-968	Vise Stop, (2.92mm)

Self-Adjusting Blades (Replaceable Cassette)



- 2-step Cable Stripper
- w/replacement cassettes
- for RG-6, 58, 59 and 62

PART NO.	DESCRIPTION
24-7732P	Tool
99-7732B	Replacement Cassette



- 3-step Cable Stripper
- w/replacement cassettes
- for RG-6, 58, 59 and 62

PART NO.	DESCRIPTION
24-7733P	Tool
99-7733B	Replacement Cassette

Blade Series (w/adjustable blades) Two Step Cut



Universal Coax Stripper

- Adjustable blades for RG-6, 58, 59 and 62
- w/switchable V-block
- does 2 cuts in 1 motion

PART NO.	DESCRIPTION
24-7734P	Tool
99-7734	Replacement Blades (set of 2)



Coax Stripper for Standard and Teflon

- Adjustable blades for RG-58, 59 and 62
- does 2 cuts in 1 motion

PART NO.	DESCRIPTION
24-7735P	Tool
99-7735	Replacement Blades (set of 2)



Coax Stripper for Standard and Teflon

- Adjustable blades for RG-6, 58, 8281
- does 2 cuts in 1 motion

PART NO.	DESCRIPTION
24-7736P	Tool
99-7735	Replacement Blades (set of 2)

Three Step Cut



Coax Stripper for RG-58, 59, 62

- adjustable blades
- does 3 cuts in 1 motion

PART NO.	DESCRIPTION
24-7737P	Tool
99-7737	Replacement Blades (set of 3)



Coax Stripper for RG-59, RG-6, 8821

- does 3 cuts in 1 motion

PART NO.	DESCRIPTION
24-7738P	Tool
99-7737	Replacement Blades (set of 3)



Coax Stripper for RG-8, 11, 213

- does 3 cuts in 1 motion

PART NO.	DESCRIPTION
24-7739P	Tool
99-7739	Replacement Blades (set of 3)

Prestige™ Ratchet Crimp Tools Adjustable Standard Series

- Long Life Full Cycle Ratchet Mechanism
- High Quality Steel Construction



For 3-Piece Crimp Connectors

RG-58, 59, 62, RG-59 PLENUM, RG-58 PLENUM,
RG-62, 141, 142, 223, 303, 400,
RG-8X, 140, 210, 450

Hex Sizes

.060 (1.52), .210 (5.33), .067 (1.70),
.255 (6.48)

PART NO.	DESCRIPTION
24-8860P	Tool
99-8860	Replacement Die

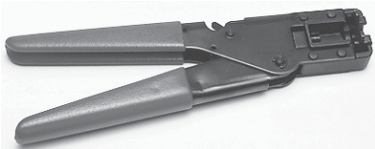
Prestige™ Universal Crimp Tool

- Adjustable Crimp Force
- With five hex sizes in one tool!
- Crimps 2 and 3 Piece Connectors



CRIMP HEX	CABLE
.068 (1.73)	Center Conductor 16 to 22 AWG
.100 (2.54)	Center Conductor 10 to 13 AWG
.213 (5.41)	RG-55, 58, 141, 142, 223, 203, 400, RG-59TFE
.255 (6.48)	RG-59, 62, 140, 210, Belden 8279
.324 (8.23)	RG-6, 142, 212, 222, Belden 8281, 9231, 9144

PART NO.
24-9960P



Compression Crimp Tool

For "F" (CATV) type weatherproof compression connectors (RG-59 and RG-6 single, Tri/Quad series)

PART NO.
24-7713P



"F" Ratchet Crimp Tool

9" inch ratchet crimp tool for RG-59, RG-6, RG-Quad
.255, .324, .354 Hex size
(for F Series CATV connectors)

PART NO.
24-8866P



Deluxe Crimp Tool for RG-6, 59
.322, .255 Hex Size

PART NO.
24-7710P



Deluxe Crimp Tool for RG-6, 11, 213
.448, .322, .100 Hex Size
(for F series connectors)

PART NO.
24-7711P



Deluxe Crimp Tool for RG-6, 11, UHF-8
.406, .359, .102 Hex Size
(for BNC, N and UHF connectors)

PART NO.
24-7712P

Boxed "F" Series Crimp Tool with Connectors



Deluxe Crimp Tool for RG-6, 59
comes with 10 pieces 25-7032
connectors w/1/2" crimp ring
.322, .255 Hex Size

PART NO.
24-7710P

PART NO.	CABLE SIZE	DESCRIPTION	HEX SIZE	REPLACEMENT DIE
24-302P	BELDEN 8281	2 pc. BNC & TNC	.350, .288	99-DC-3
24-310	RG-8	UHF	.405, .110	99-U-8
24-312	RG-58, 59, 8x, 450	N	.255, .210, .100	99-N-1
24-313	RG-8	N	.429, .100, .080	99-N-8
24-318P	BELDEN 8281	3 pc. BNC & TNC	.310, .065	99-MC-3
24-321P	RG-6	2 pc. BNC & TNC	.385, .320	99-DC-5



- Full cycle ratchet mechanism
- Quick release safety
- Perform both electrical and mechanical crimp
- High quality steel
- Each tool comes complete with crimp die
- Full range +/- Cam adjustment

Precision Ergo Hand Crimp Tool with Dieset

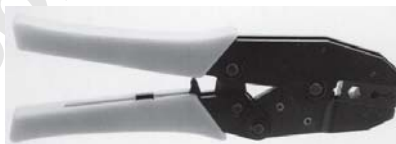
PART NO.	DESCRIPTION	HEX SIZE	HEX WIDTH
24-9961P (Replacement dieset 99-9961)	Pressmaster K Hand crimp tool frame with dieset .178 (4.52)	.324 (8.22) .264 (6.71) .213 (5.41) .394 (10.00)	.475 (12.06) .475 (12.06) .394 (10.00)
24-9962P (Replacement dieset 99-9962)	Pressmaster K Hand crimp tool frame with dieset .042 (1.07)	.350 (8.89) .288 (5.41) .042 (1.07)	.475 (12.06) .475 (12.06) .080 (2.03)
24-9963P (Replacement dieset 99-9963)	Pressmaster K Hand crimp tool frame with dieset .042 (1.07)	.255 (6.48) .178 (4.52) .128 (3.25) .080 (2.03)	.475 (12.06) .475 (12.06) .475 (12.06)



- Longer handles for leverage
- Padded and contoured to fit in hand
- Precision ground die sets
- 50,000 cycle lifespan frame

Standard Series

- Full cycle ratchet mechanism
- Quick release safety
- Perform both electrical and mechanical crimp
- High quality steel
- Each tool comes complete with crimp die



PART NO.	CABLE SIZE	DESCRIPTION	HEX SIZE	REPLACEMENT DIE
24-8789P	RG-58, 59, 62, 58TFE, 59TFE, 62TFE	Crimps BNC-TNC 2 & 3 piece connectors w/ standard crimp rings	.257, .210, .060	99-8789
24-8856P	RG-6, 8, 59, 62	Crimps BNC-TNC 3-piece connectors w/standard crimp ring	.390, .275, .065	99-8856
24-8857P	RG-58/U, 58AU, 174, 139 185, 188, 316	Crimps BNC-TNC 3-piece connectors w/ standard crimp rings	.235, .128, .065, .042	99-8857
24-8858P	RG-58, 58AU, 59Teflon, 62 Teflon	Crimps BNC-TNC 2 & 3 piece connectors connectors also crimps 1/2"ring F connector	.325, .215, .065	99-8858
24-8859P	RG-59, 62, Belden 8281	Crimps BNC-TNC 2 & 3 piece connectors w/ standard & dual crimp rings	.325, .258, .065	99-8859
24-9858P	RG-58, 59TFE	Crimps BNC-TNC 2-piece connectors	.320, .211	99-9858
24-9958P	RG-58, 58TFE, 59TFE, 141 142, 223, 400, 303, 55, BELDEN 9907, RG-141	Crimps 3-piece BNC-TNC connectors and Mini-UHF connectors	.213, .067	99-9958
24-9859P	RG-59, 62,	Crimps BNC-TNC 2-piece connectors	.320, .250	99-9859
24-9912P	RG-122, 180, 34M, RG-195, 8218, 174, 188, 179, 187, 316 BELDEN 89907	Crimps 3-piece BNC-TNC connectors	.184, .066	99-9912
24-9959P	RG-59, 62, 450 Proflex, RG-8x	Crimps 3-piece BNC-TNC connectors and Mini-UHF connectors	.255, .065	99-9959

We have what you are looking for ... and if we don't, we'll design and manufacture it!!!



**SMA Jack to Slide-on
SMB Mated Adapters**

Emerson Network Power Connectivity Solutions prides itself in meeting our customers' needs by providing them with customized solutions. We have configured our technical staff and equipped our model shop and QA lab to meet the quick-turn demands of new product development. Prototypes, samples, and short-run quantities are delivered expediently and to print. Your new product development life cycle will be greatly enhanced with us as a partner on your design team.



**SMA Bulkhead Jack
Receptacle**



**SMB Vertical
PC Plug**

We have an extensive log of special variations of MMCX, MCX, 75 Ohm MCX, SMK, SMA, SMB, Mini-75 Ohm SMB, SMC, BNC, TNC and N connectors. Special cable sizes, cable assemblies, PC board terminations, adapters, antenna connectors, multi-packs, calibration terminations and hardware products give us a large pool of design experience to assist you with custom development. See page 259 for more information on our custom hardware products.



SMB Bulkhead Jack Receptacle

Our sales representatives will review your product application and initiate the quotation process, and our sales and engineering staff will assist you in defining the performance and cost parameters required by your end product. Providing details such as dimensional limitations, frequency, and VSWR performance to our field sales representative will speed the process.

After you have chosen us as your supplier, we can provide samples and a short run quantity prior to production of your custom product. We look forward to providing your special electronic components in the future.



**MCX straight cabled Plug 6 position with
MCX vertical PC mount Jack 6 position**

We do it all...
Virtually any RF coaxial connector or RF cable assembly; from the engineering, prototyping and tooling stages, to complete production and testing.

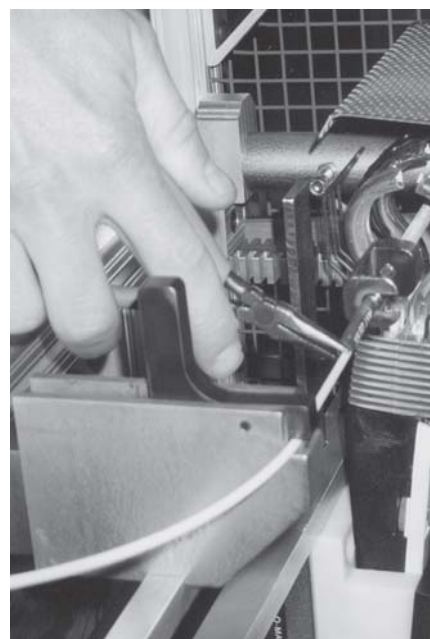
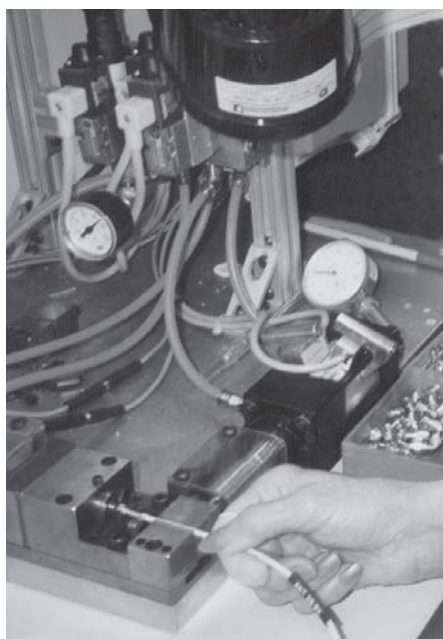
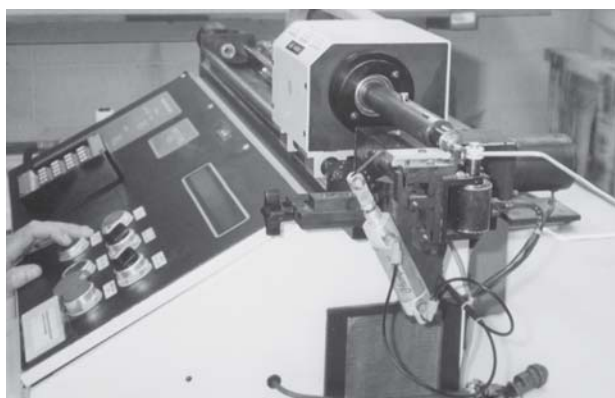
With over 75 years of experience, Emerson Network Power Connectivity Solutions is your interconnect solution for cable assembly design, high quality production and on-time delivery. Our Johnson line of precision cable assemblies includes standard RF coaxial cable assemblies such as flexible, conformable and semi-rigid types for 50 or 75 ohm systems from 0 to 40 GHz. We can work with almost any connector, including our complete line of Johnson connectors including SMK, SMA, SMB, SMC, BNC, TNC, N, F, UHF, Mini-UHF, MCX and MMCX connectors. Cable assemblies manufactured with our RF connectors assure you controlled impedance throughout the cable length. Our skilled personnel adhere to rigorous quality assurance procedures, giving you the cables you need, on time, without hassles.

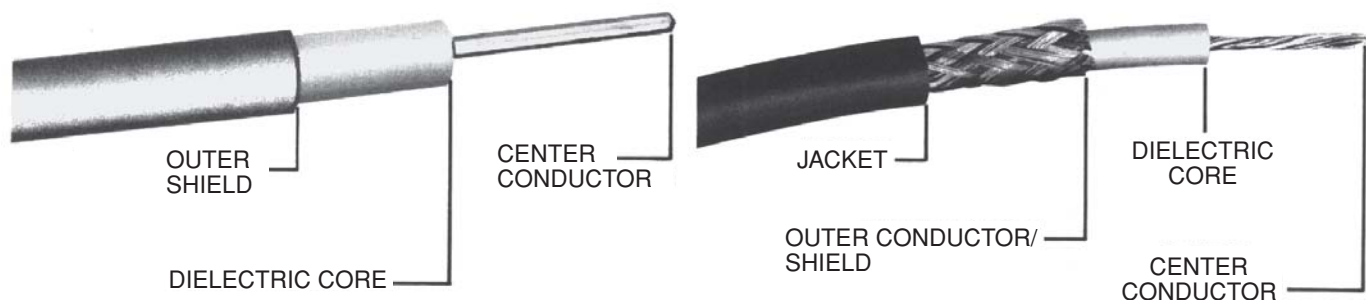
Backed by test data shipped with the product! Our assemblies are delivered completely tested to customer specifications and carry our complete customer satisfaction

guarantee. By having us make your cable assemblies, you save the cost of training personnel; discarding damaged parts; cable testing; and replacing faulty inventory. You save on overhead, manufacturing and equipment costs and you receive proven cost effective cable assemblies on time and to your specifications.

We are an industry leader in the RF coaxial connector and electronic hardware market...you can rely on Emerson Network Power Connectivity Solutions for all your assembly needs.

**We're responsive,
reliable and ready to
work with you.**





Semi-Rigid Cable Dimensions

CABLE	CENTER CONDUCTOR O.D.	O.D. DIELECTRIC	O.D. SHIELD	IMPEDANCE
RG-405/U	.0201 (0.51)	.0658 (1.67)	.086 (2.18)	50
RG-402/U	.0359 (0.91)	.1175 (2.98)	.141 (3.58)	50

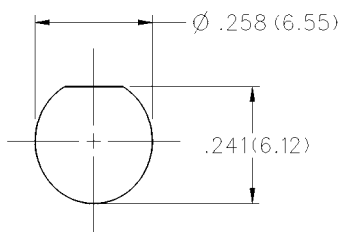
RF Flexible Cable Dimensions

CABLE	CENTER CONDUCTOR	O.D. DIELECTRIC	O.D. SHIELD	O.D. JACKET	IMPEDANCE
.047 dia.	.007 (0.19)	.020 (0.52)	.035 (0.90)	.047 (1.20)	50
RG-178B/U	.012 (.030)	.034 (0.86)	.054 (1.37)	.071 (1.80)	50
RG-196A/U	.012 (.030)	.034 (0.86)	.054 (1.37)	.071 (1.80)	50
RG-174/U	.019 (0.48)	.060 (1.52)	.080 (2.03)	.110 (2.79)	50
RG-179B/U	.012 (.030)	.063 (1.60)	.084 (2.13)	.110 (2.79)	75
RG-187A/U	.012 (.030)	.060 (1.52)	.084 (2.13)	.110 (2.79)	75
RG-188A/U	.020 (0.51)	.060 (1.52)	.081 (2.036)	.110 (2.79)	50
RG-316/U	.020 (0.51)	.060 (1.52)	.081 (2.06)	.110 (2.79)	50
RG-316 DS	.020 (0.51)	.060 (1.52)	(DS) .100 (2.54)	.120 (3.05)	50
RG-179 DS	.012 (.030)	.063 (1.60)	(DS) .103 (2.62)	.120 (3.05)	75
RG-187 DS	.012 (.030)	.060 (1.52)	(DS) .100 (2.54)	.120 (3.05)	75
RG-188 DS	.020 (0.51)	.060 (1.52)	(DS) .100 (2.54)	.120 (3.05)	50
RG-141A/U	.039 (0.99)	.116 (2.95)	.146 (3.71)	.190 (4.83)	50
RG-303/U	.039 (0.96)	.116 (2.95)	.146 (3.71)	.190 (4.83)	50
RG-400/U	.038 (0.96)	.116 (2.95)	(DS) .171 (4.34)	.195 (4.85)	50
RG-142B/U	.039 (0.99)	.116 (2.95)	(DS) .171 (4.34)	.195 (4.95)	50
RG-58C/U	.038 (0.96)	.116 (2.95)	.150 (3.81)	.195 (4.95)	50
RG-55B/U	.032 (0.81)	.116 (2.95)	(DS) .176 (4.47)	.206 (5.23)	53.5
RG-223/U	.032 (0.81)	.116 (2.95)	(DS) .176 (4.47)	.206 (5.23)	53.5
LMR-100	.022 (.056)	.062 (1.57)	.085 (2.16)	.105 (2.67)	50
LMR-195	.037 (0.94)	.110 (2.79)	.139 (3.53)	.195 (4.95)	50
LMR-200	.044 (1.12)	.116 (2.95)	.144 (3.66)	.195 (4.95)	50
LMR-240	.056 (1.42)	.150 (3.81)	.178 (4.52)	.240 (6.10)	50
735A	.016 (0.41)	.077 (1.96)	.101 (2.57)	.128 (3.25)	75
RG-59	.0226 (0.57)	.146 (3.71)	.191 (4.85)	.242 (6.15)	75

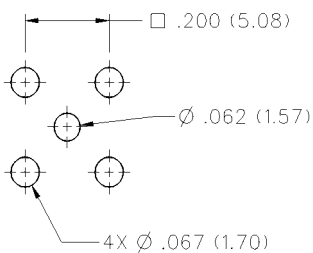
(DS = Double Braid)

Recommended Mounting Hole Dimensions

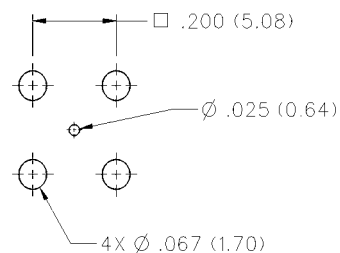
1



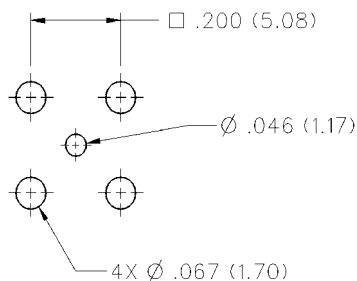
2



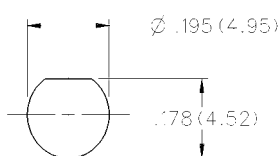
3



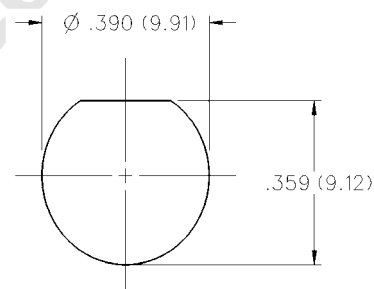
4



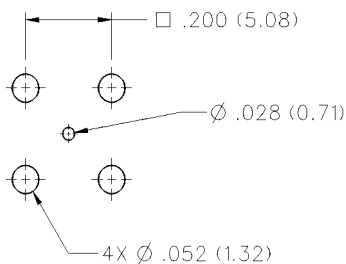
5



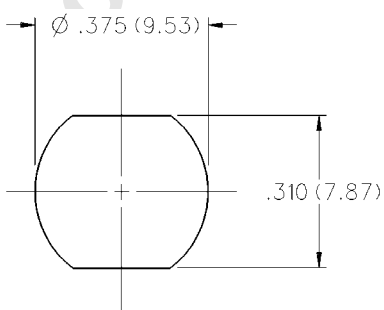
6



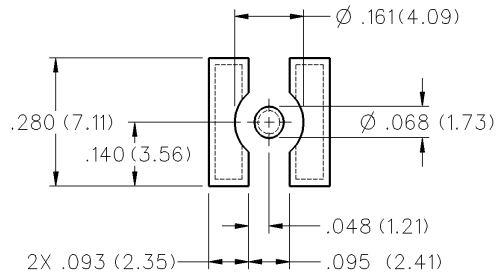
7



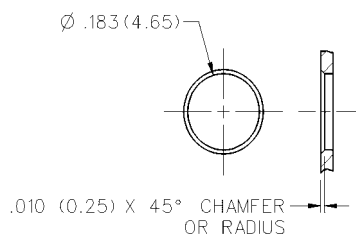
8



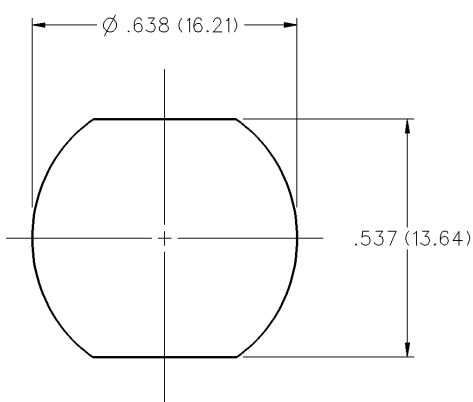
9



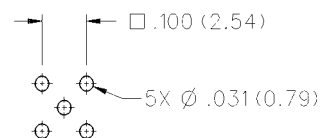
10



11



12



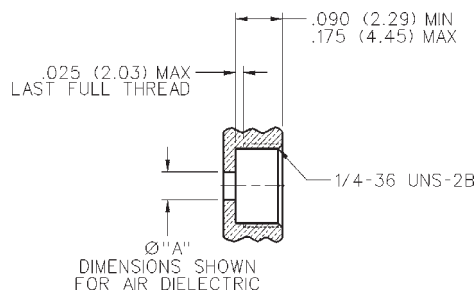
13



Connectivity Solutions Tel: 800-247-8256 • Fax: 507-833-6287 • www.EmersonNetworkPower.com/connectivity

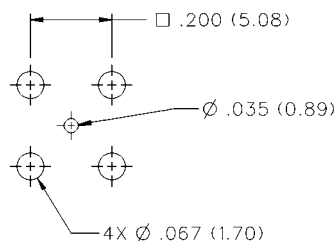
Recommended Mounting Hole Dimensions

21

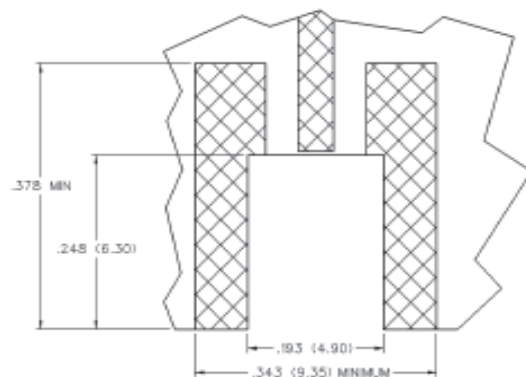


PART NO.	"A"
142-1731-001/006	.046 (1.17)
142-1731-011/016	.083 (2.11)
142-1731-041/046	.116 (2.95)

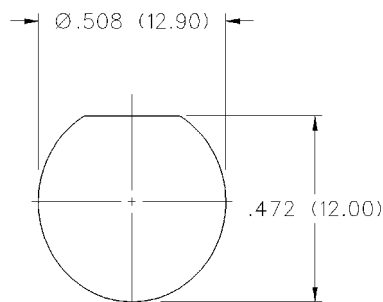
22



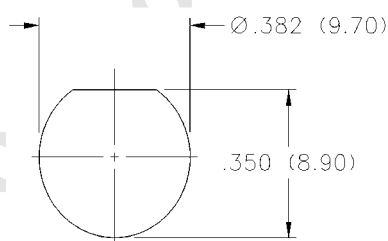
23



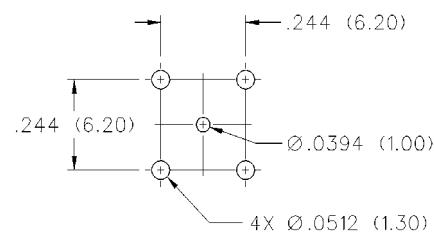
24



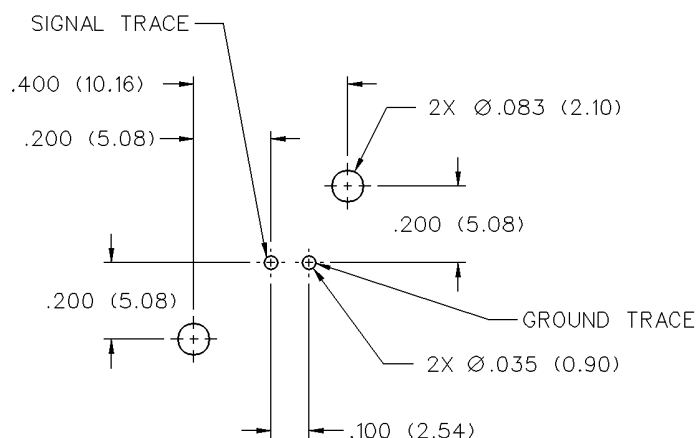
25



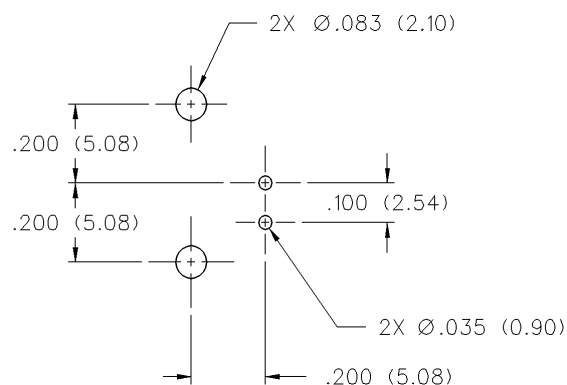
26



27

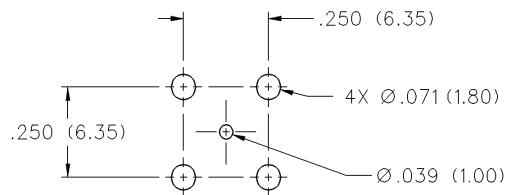


28

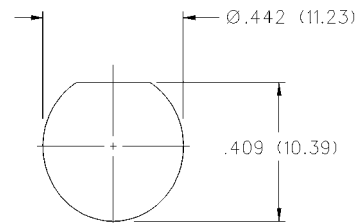


Recommended Mounting Hole Dimensions

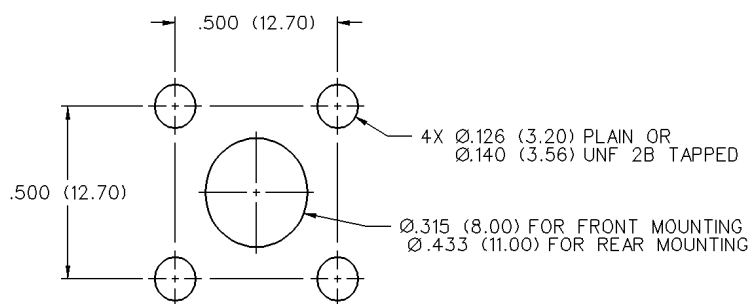
29



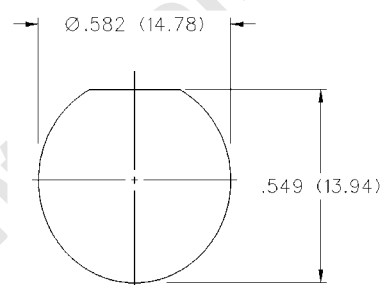
30



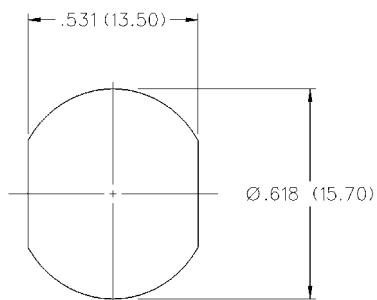
31



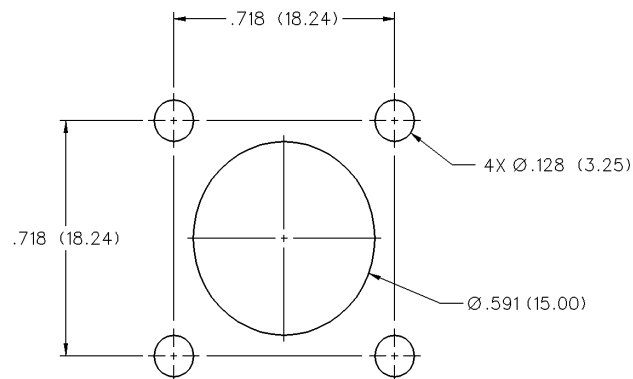
32



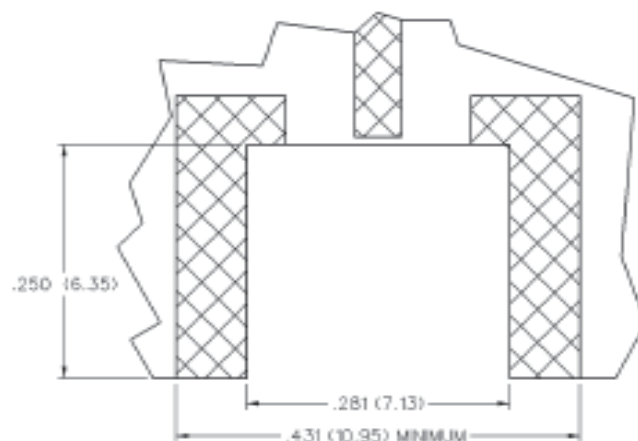
33



34



35



131-1402-101	240	131-6404-001	239	133-3404-001	216	135-3436-001	210
131-1402-116	240	131-6404-006	239	133-3404-006	216	135-3436-101	208
131-1403-001	240	131-6404-101	240	133-3404-101	218	135-3693-101	207
131-1403-016	239	131-6404-106	240	133-3404-106	218	140-0000-957	220
131-1403-101	240	131-6433-001	239	133-3407-101	218	140-0000-958	220
131-1403-116	240	131-6433-006	239	133-3407-106	218	140-0000-960	220
131-1404-001	239	131-6433-101	240	133-3433-001	216	140-0000-962	220
131-1404-016	239	131-6433-106	240	133-3433-006	216	140-0000-964	220
131-1404-101	240	131-6593-401	237	133-3433-101	218	142-0002-221	242
131-1404-116	240	131-6593-406	237	133-3433-106	218	142-0002-226	242
131-1693-101	238	131-8303-401	239	133-3693-001	214	142-0002-811	244
131-1693-116	238	131-8303-406	239	133-3693-006	214	142-0002-821	245
131-3302-001	237	131-8304-401	239	133-3693-101	215	142-0003-201	242
131-3302-006	237	131-8304-406	239	133-3693-106	215	142-0003-206	242
131-3303-001	239	131-8403-001	239	133-5302-401	216	142-0003-231	242
131-3303-006	239	131-8403-006	239	133-5302-406	216	142-0003-236	242
131-3303-401	239	131-8403-011	239	133-5303-401	216	142-0003-241	242
131-3303-406	239	131-8403-016	239	133-5303-406	216	142-0003-246	242
131-3303-501	240	131-8403-101	240	133-5304-401	216	142-0003-301	243
131-3303-506	240	131-8403-106	240	133-5304-406	216	142-0003-306	243
131-3304-401	239	131-8403-111	240	133-5402-001	216	142-0003-801	244
131-3304-406	239	131-8403-116	240	133-5402-006	216	142-0003-811	244
131-3304-501	240	131-8404-001	239	133-5402-101	218	142-0004-201	242
131-3304-506	240	131-8404-006	239	133-5402-106	218	142-0004-206	242
131-3402-001	239	131-8404-011	239	133-5403-001	216	142-0004-211	242
131-3402-016	239	131-8404-016	239	133-5403-006	216	142-0004-216	242
131-3402-101	240	131-8404-101	240	133-5403-101	218	142-0004-221	242
131-3402-116	240	131-8404-106	240	133-5403-106	218	142-0004-226	242
131-3403-001	239	131-8404-111	240	133-5404-001	216	142-0004-301	243
131-3403-016	239	131-8404-116	240	133-5404-006	216	142-0004-306	243
131-3403-021/026	236	131-8409-001	239	133-5404-101	218	142-0004-801	244
131-3403-101	240	131-8409-006	239	133-5404-106	218	142-0004-811	244
131-3403-116	240	131-8409-101	240	133-8333-001	217	142-0007-801	244
131-3403-401	239	131-8409-106	240	133-8333-401	217	142-0007-811	244
131-3403-406	239	131-8433-001/006	236	133-8334-001	217	142-0008-801	244
131-3404-001	239	131-8434-001/006	236	133-8334-401	217	142-0008-811	244
131-3404-016	239	131-8445-001	239	133-8433-001	217	142-0093-801	245
131-3404-021/026	236	131-8445-006	239	133-8433-101	219	142-0093-806	245
131-3404-101	240	131-8445-011/016	236	133-8434-001	217	142-0094-801	245
131-3404-116	240	131-8445-101	240	133-8434-101	219	142-0094-806	245
131-3404-401	239	131-8445-106	240	133-8445-001	217	142-0096-801	245
131-3404-406	239	131-9404-101/116	240	133-8445-101	219	142-0096-806	245
131-3407-001	239	131-9403-001	239	133-9403-001	216	142-0102-401	234
131-3407-006	239	131-9404-001	239	133-9403-101	218	142-0102-406	234
131-3407-001/016	236	131-9403-101/116	240	133-9404-001	216	142-0103-401	234
131-3407-101	240	133-3302-001	216	133-9404-101	218	142-0103-406	234
131-3407-106	240	133-3302-006	216	134-0303-406	241	142-0107-401	234
131-3593-401	237	133-3302-401	216	134-0304-406	241	142-0107-406	234
131-3593-406	237	133-3302-406	216	134-0307-406	241	142-0202-011	234
131-3693-001	237	133-3303-001	216	134-0308-406	241	142-0202-016	234
131-3693-016	237	133-3303-006	216	135-3302-001	213	142-0202-101	235
131-3693-101	238	133-3303-401	216	135-3302-401	216	142-0202-106	235
131-3693-116	238	133-3303-406	216	135-3303-001	212	142-0203-011	234
131-3694-401	237	133-3304-001	216	135-3304-001	212	142-0203-016	234
131-3694-406	237	133-3304-006	216	135-3333-001	212	142-0203-101	235
131-6303-401	239	133-3304-401	216	135-3336-001	213	142-0203-106	235
131-6303-406	239	133-3304-406	216	135-3336-401	213	142-0207-011	234
131-6304-401	239	133-3402-001	216	135-3402-001	210	142-0207-016	234
131-6304-406	239	133-3402-006	216	135-3402-101	208	142-0207-101	235
131-6333-401	239	133-3402-101	218	135-3402-111	209	142-0207-106	235
131-6333-406	239	133-3402-106	218	135-3403-001	211	142-0302-011	228
131-6403-001	239	133-3403-001	216	135-3403-101	209	142-0302-016	228
131-6403-006	239	133-3403-006	216	135-3404-001	211	142-0302-401	231
131-6403-101	240	133-3403-101	218	135-3404-101	209	142-0302-406	231
131-6403-106	240	133-3403-106	218	135-3433-001	211	142-0302-431	228

Assembly Instructions

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

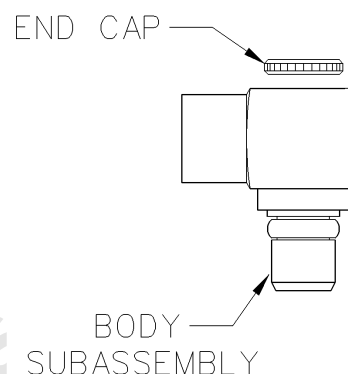
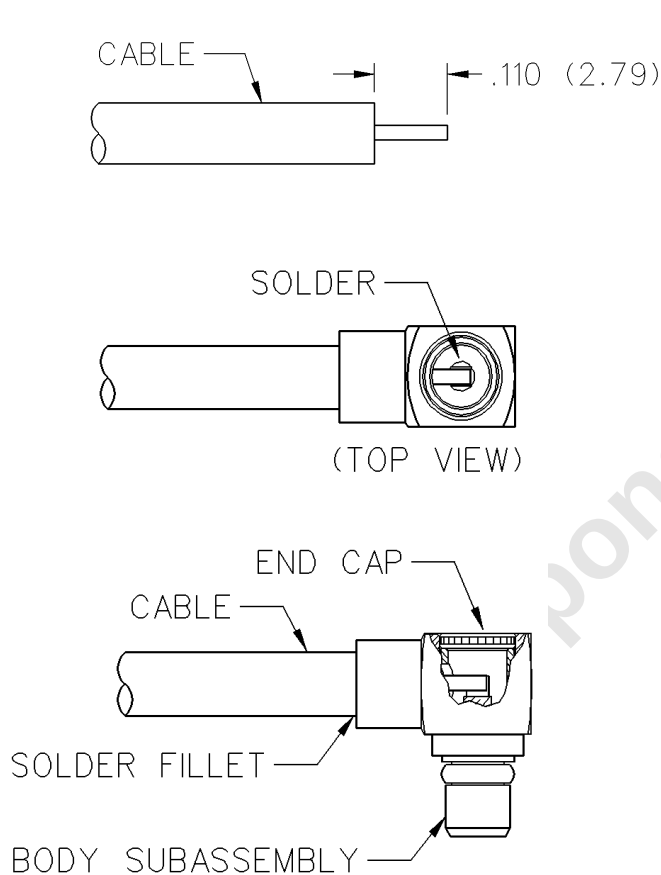
INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST



142-0302-436	228	142-0439-106	233	142-4439-006	230	CPFI-UG88-5	251
142-0303-011	229	142-0593-001	222	142-4439-101	233	CPFI-UG88-10	251
142-0303-016	229	142-0593-006	222	142-4439-106	233	CPFI-UG89-2	251
142-0303-401	231	142-0593-401	222	142-5303-401	229	CPL-259-1	256
142-0303-406	231	142-0593-406	222	142-5303-406	229	CPL-259-2	256
142-0303-411	229	142-0593-411/416	222	142-5304-401	229	CPL-259-7	256
142-0303-416	229	142-0594-001	222	142-5304-406	229	CPL-259-8	256
142-0304-011	229	142-0594-006	222	142-5307-401	229	CPL-259-9	256
142-0304-016	229	142-0594-401	222	142-5307-406	229	CPL-259-10	256
142-0304-401	231	142-0594-406	222	142-5308-401	229	CPL-259-17	256
142-0304-406	231	142-0693-001	222	142-5308-406	229	CPL-259-18	256
142-0304-411	229	142-0693-006	222	142-5403-001	229	CPM-88-19	247
142-0304-416	229	142-0693-051	226	142-5403-006	229	CPM-88-19A/S	247
142-0307-011	229	142-0693-056	226	142-5403-101	232	CPM-88-20	247
142-0307-016	229	142-0693-101	221	142-5403-106	232	CPM-TNC-19	247
142-0307-401	231	142-0693-106	221	142-5404-001	229	CPM-TNC-20	247
142-0307-406	231	142-0694-001	222	142-5404-006	232	CPMC-68-2	252
142-0307-411	229	142-0694-006	222	142-5404-101	232	CPMC-68-3	252
142-0307-416	229	142-0694-011	223	142-5404-106	232	CPMC-68-5	252
142-0308-011	229	142-0694-016	223	142-5407-001	229	CPMC-68-10	252
142-0308-016	229	142-0694-021	224	142-5407-006	229	CPMC-68-18	252
142-0308-401	231	142-0694-026	224	142-5407-101	232	CPMC-68-20	252
142-0308-406	231	142-0694-031	225	142-5407-106	232	CPMC-68-33	252
142-0308-411	229	142-0694-036	225	142-5408-001	229	CPMC-68-34	252
142-0308-416	229	142-0694-041	224	142-5408-006	229	CPMC-68-35	252
142-0333-011	229	142-0694-046	224	142-5408-101	233	CPMC-68-36	252
142-0333-016	229	142-0694-051	226	142-5408-106	233	CPMC-68-45	252
142-0333-411	229	142-0694-056	226	142-5435-001	230	CPMC-68-50	252
142-0333-416	229	142-0694-101	221	142-5435-006	230	CPMC-78-2	246
142-0335-401	230	142-0694-106	221	142-5435-101	233	CPMC-78-5	246
142-0335-406	230	142-0801-421	227	142-5435-106	233	CPMC-78-10	246
142-0339-401	230	142-1403-001/006	229	142-5439-001	230	CPMC-78-18	246
142-0339-406	230	142-1404-001/006	229	142-5439-006	230	CPMC-88-1	246
142-0402-011	228	142-1404-001/006	229	142-5439-101	233	CPMC-88-2	246
142-0402-016	228	142-1407-001/006	229	142-5439-106	233	CPMC-88-3	246
142-0402-101	232	142-1408-001/006	229	142-9403-101	232	CPMC-88-5	246
142-0402-106	232	142-4303-401	229	142-9404-101	232	CPMC-88-10	246
142-0403-001	231	142-4303-406	229	142-9407-101	232	CPMC-88-11	246
142-0403-006	231	142-4304-401	229	CP-78-2	250	CPMC-88-13	246
142-0403-011	229	142-4304-406	229	CP-78-5	250	CPMC-88-14	246
142-0403-016	229	142-4307-401	229	CP-78-10	250	CPMC-88-17	246
142-0403-101	232	142-4307-406	229	CP-79-20BM1	249	CPMC-88-18	246
142-0403-106	232	142-4308-401	229	CP-79-20BM2	249	CPMC-88-19	246
142-0404-011	229	142-4308-406	229	CP-TNC-89-19-BM	253	CPMC-88-21	248
142-0404-016	229	142-4403-001	229	CP-88-1	250	CPMC-88-26	246
142-0404-101	232	142-4403-006	229	CP-88-2	250	CPMC-TNC-1	253
142-0404-106	232	142-4403-101	232	CP-88-3	250	CPMC-TNC-2	253
142-0407-011	229	142-4403-106	232	CP-88-4	250	CPMC-TNC-13	253
142-0407-016	229	142-4404-001	229	CP-88-5	250	CPMC-TNC-16	253
142-0407-101	232	142-4404-006	229	CP-88-10	250	CPMC-TNC-17	253
142-0407-106	232	142-4404-101	232	CP-89-1	250	CPN-1	255
142-0408-011	229	142-4404-106	232	CP-89-2	250	CPN-2	255
142-0408-016	229	142-4407-001	230	CP-89-19BM1	249	CPN-8	255
142-0408-101	232	142-4407-006	229	CP-89-27BM2	249	CPN-8/110	255
142-0433-011	229	142-4407-101	232	CP-SW88-2	250	CPN-16	255
142-0433-016	229	142-4407-106	232	CP-SW88-10	250	CPN-17	255
142-0433-101	232	142-4408-001	229	CP-SW88-21	250	CPN-142T	255
142-0433-106	232	142-4408-006	229	CP-SW88-23	250	CPN-68-1	254
142-0435-001	230	142-4408-101	232	CPF-249-1	257	CPN-68-8	254
142-0435-006	230	142-4408-106	232	CPFI-UG78-2	251	CPN-68-13	254
142-0435-101	233	142-4435-001	230	CPFI-UG78-5	251	MINI-UHF-1	258
142-0435-106	233	142-4435-006	230	CPFI-UG88-1	251	MINI-UHF-1B	258
142-0439-001	230	142-4435-101	231	CPFI-UG88-2	251	MINI-UHF-2	258
142-0439-006	230	142-4435-106	231	CPFI-UG88-3	251	MINI-UHF-16	258
142-0439-101	233	142-4439-001	230	CPFI-UG88-4	251	MINI-UHF-17	258

MMCX Right Angle Plug for .086 (2.18) Semi-Rigid Cable

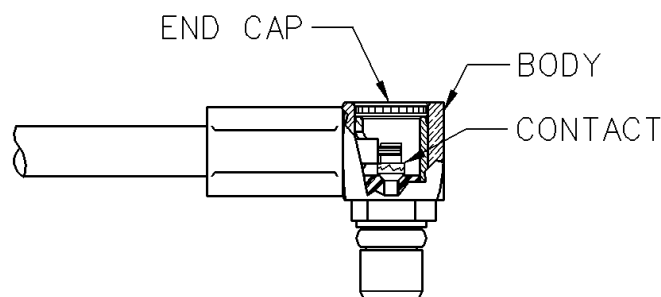
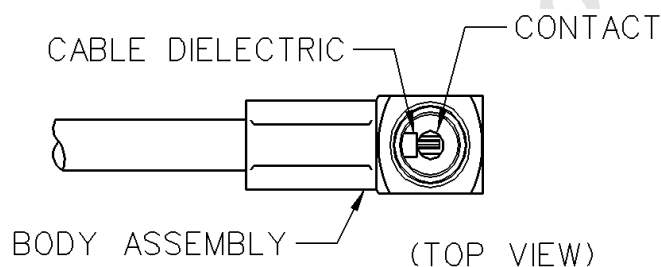
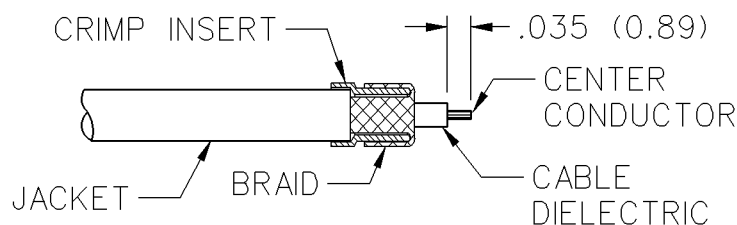
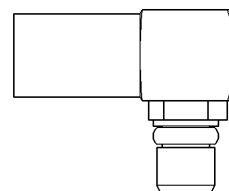
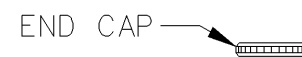
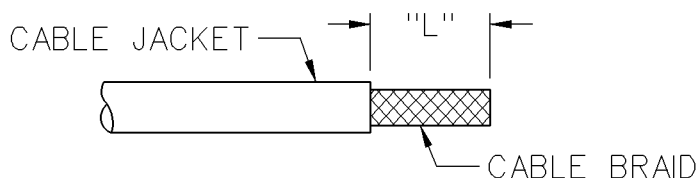
CABLE GROUP	PART NO.
RG-405/U (.086 Semi-Rigid)	135-3693-101



1. Identify piece parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor.
3. Insert cable into body making certain that jacket bottoms on the connector body. Fixture cable and assembly to prevent movement during soldering.
4. Solder center conductor to contact as shown. Use a minimum amount of solder for a good joint.
5. Solder body to cable as shown. Use a minimum amount of heat to minimize cable insulation movement.
6. Press end cap into body access port using .156 (3.96) diameter flat punch or Johnson assembly tool 141-0000-910.

MMCX Right Angle Plug for .047 (1.20) Diameter and RG-178 Size Flexible Cable with Crimp Insert

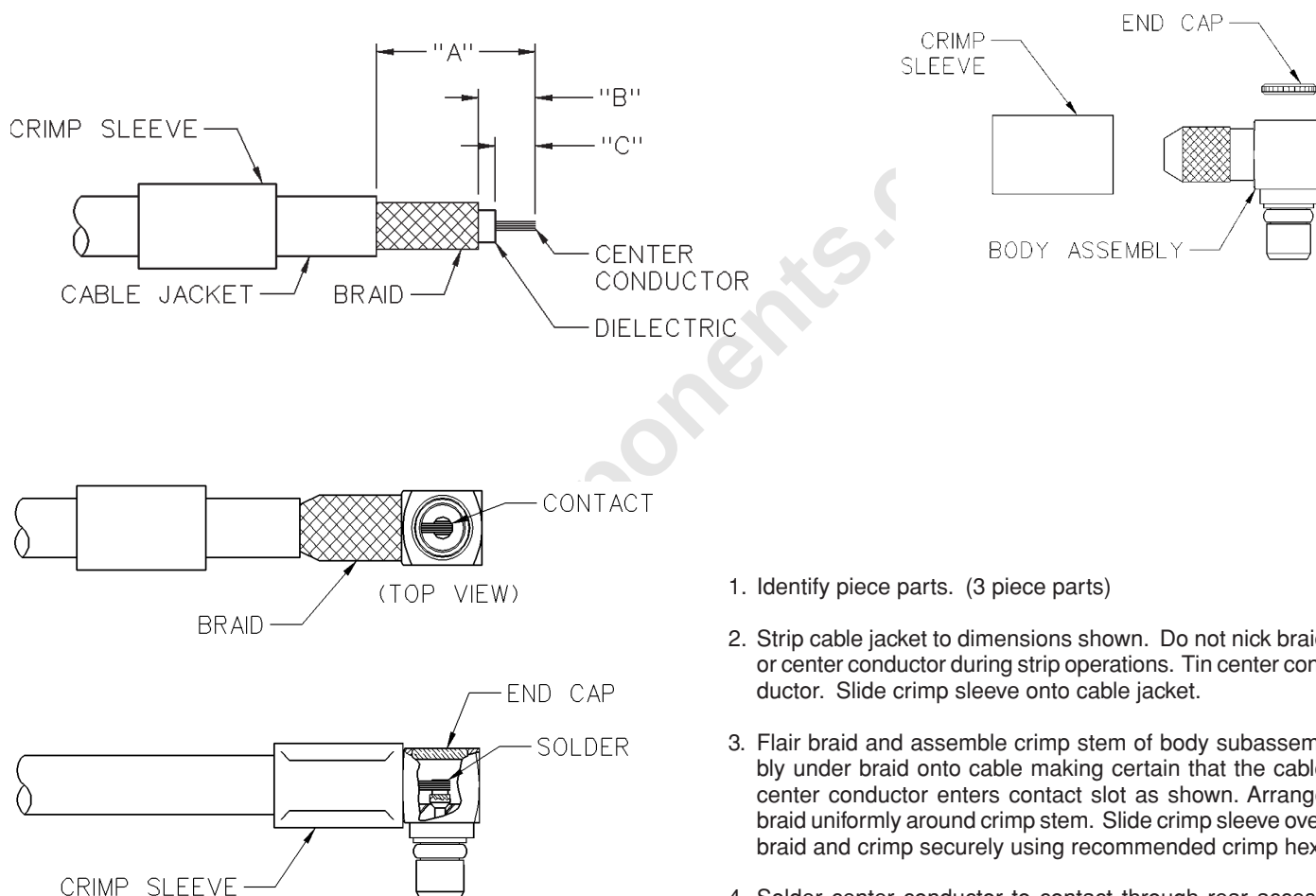
CABLE GROUP	PART NO.	"L"	CRIMP HEX
.047 Flexible	135-3436-101	.140 (3.56)	.105 (2.67)
RG-178/U, 196	135-3402-101	.188 (4.78)	.105 (2.67)



1. Identify piece parts. (3 piece parts)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations.
3. Slide crimp insert over braid and against jacket. Fold braid around crimp insert as shown. Strip cable dielectric to dimension shown. Tin center conductor.
4. Slide body assembly over cable and crimp insert, then seat firmly so cable dielectric butts against contact as shown. Crimp body using recommended crimp hex. Maintain forward pressure on cable while crimping.
5. Solder contact to center conductor through rear access port. Use a minimum amount of solder for a full fillet joint.
6. Press end cap into access port using .156 (3.96) diameter flat punch or Johnson assembly tool 141-0000-910.

MMCX Right Angle Plug for RG-178, RG-316, RG-316 DS and RG-179 Size Flexible Cable

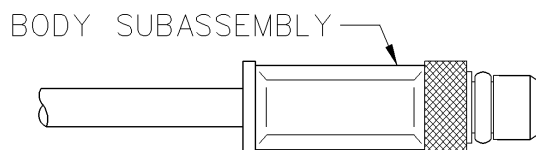
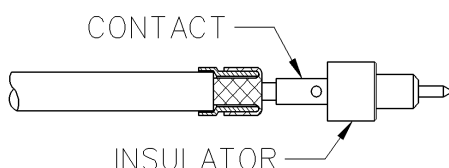
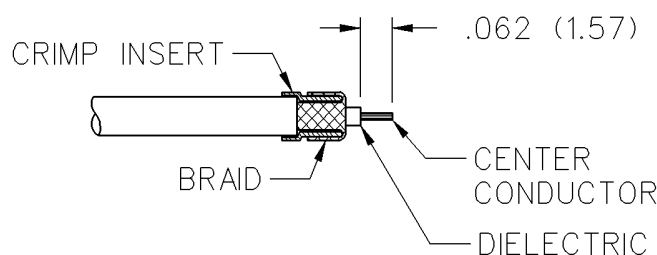
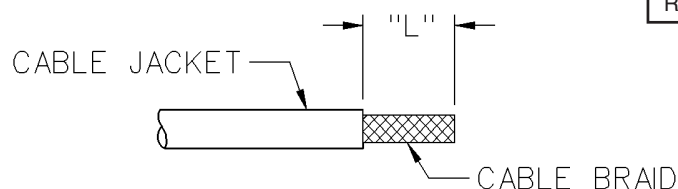
CABLE GROUP	PART NO.	CRIMP HEX	"A"	"B"	"C"
RG-178, 196	135-3402-111	.105 (2.67)	.310	.100	.035
RG-316/U, 188, 187, 179	135-3403-101	.128 (3.25)	.295	.105	.075
RG-316 DS, 188 DS	135-3404-101	.151 (3.83)	.295	.105	.075



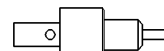
1. Identify piece parts. (3 piece parts)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations. Tin center conductor. Slide crimp sleeve onto cable jacket.
3. Flair braid and assemble crimp stem of body subassembly under braid onto cable making certain that the cable center conductor enters contact slot as shown. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp hex.
4. Solder center conductor to contact through rear access port. Use a minimum amount of solder for a full fillet joint.
5. Press end cap into body access port using .156 (3.96) diameter flat punch or Johnson assembly tool 141-0000-910.

MMCX Straight Plug for .047 (1.19) Diameter and RG-178 Size Flexible Cable

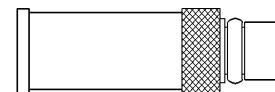
CABLE GROUP	PART NO.	"L"	CRIMP HEX
.047 Flexible	135-3436-001	.135 (3.43)	.105 (2.67) x .250 (6.35) W
RG-178/U, 196	135-3402-001	.184 (4.67)	.105 (2.67) x .250 (6.35) W



CRIMP
INSERT



CONTACT
ASSEMBLY

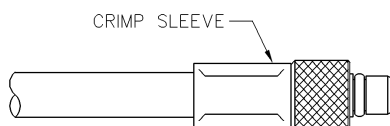
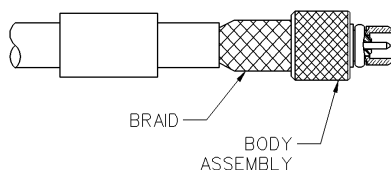
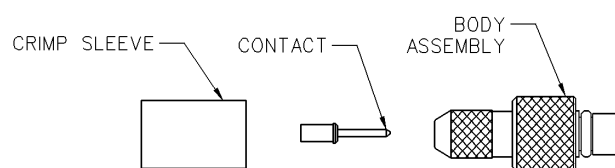
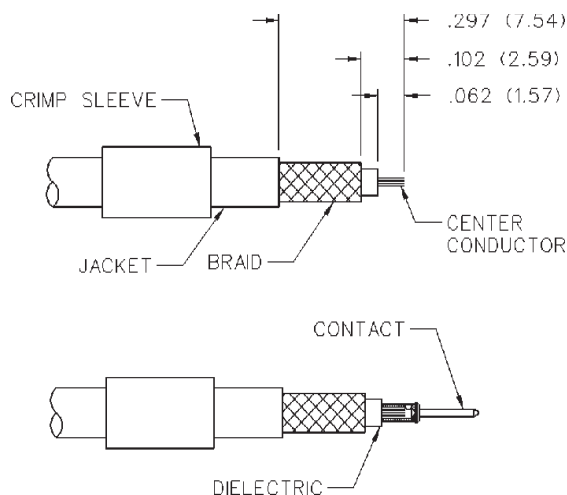


BODY
ASSEMBLY

1. Identify piece parts. (3 piece parts)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations.
3. Slide crimp insert over braid and against jacket, fold braid around crimp insert as shown. Strip dielectric to dimension shown. Tin center conductor if contact is to be soldered attached. Do not tin center conductor if contact is to be crimp attached.
4. Assemble contact assembly onto cable as shown.
Solder attachment: Solder contact to center conductor. Care should be taken that excess solder is not applied.
Crimp attachment: Crimp contact to center conductor using Johnson hand tool 140-0000-952 and die set 140-0000-953. Crimp location should be centered between end of contact and cross-hole. Crimp attachment to solid center conductor cables is not recommended.
5. Slide body assembly over contact and crimp insert, then seat firmly as shown. Crimp body using recommended crimp die hex. Maintain forward pressure on cable while crimping.

MMCX Straight Plug for RG-316, RG-179 and RG-316 DS Size Flexible Cable

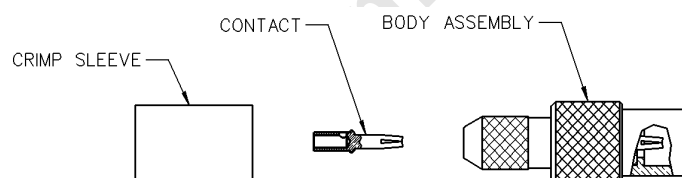
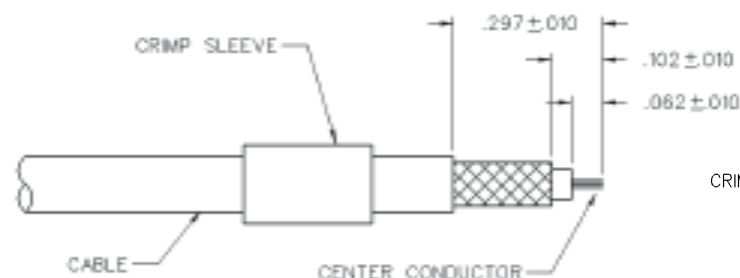
CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 188, 161, 174	135-3403-001	.128 (3.25)
RG-316 DS, 188 DS, 187 DS	135-3404-001	.151 (3.83)
RG-179/U, 187	135-3433-001	.128 (3.25)



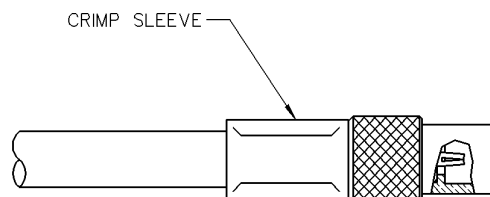
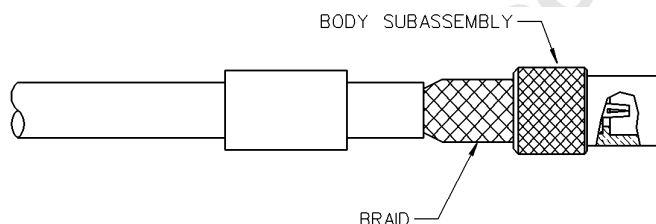
1. Identify connector parts. (3 piece parts)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. Slide crimp sleeve onto cable jacket.
3. Assemble contact onto cable as shown.
Solder attachment: Solder contact to center conductor. Care should be taken that excess solder is not applied.
Crimp attachment: Crimp contact to center conductor using Johnson hand tool 140-0000-952 and die set 140-0000-953. Crimp location should be centered between end of contact and cross-hole. Crimp attachment to solid center conductor cables is not recommended.
4. Slide body assembly over contact and under braid, then seat firmly onto contact as shown. The body assembly will "snap" over the contact barb. The cable may have to be held in a soft jawed clamping fixture. Slide crimp sleeve forward and crimp using recommended crimp die hex.

MMCX Straight Jack for RG-316, RG-316 DS and RG-179 Size Flexible Cable

CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 188, 161, 174	135-3303-001	.128 (3.25)
RG-316 DS, 188 DS, 187 DS	135-3304-001	.151 (3.83)
RG-179/U, 187	135-3333-001	.128 (3.25)

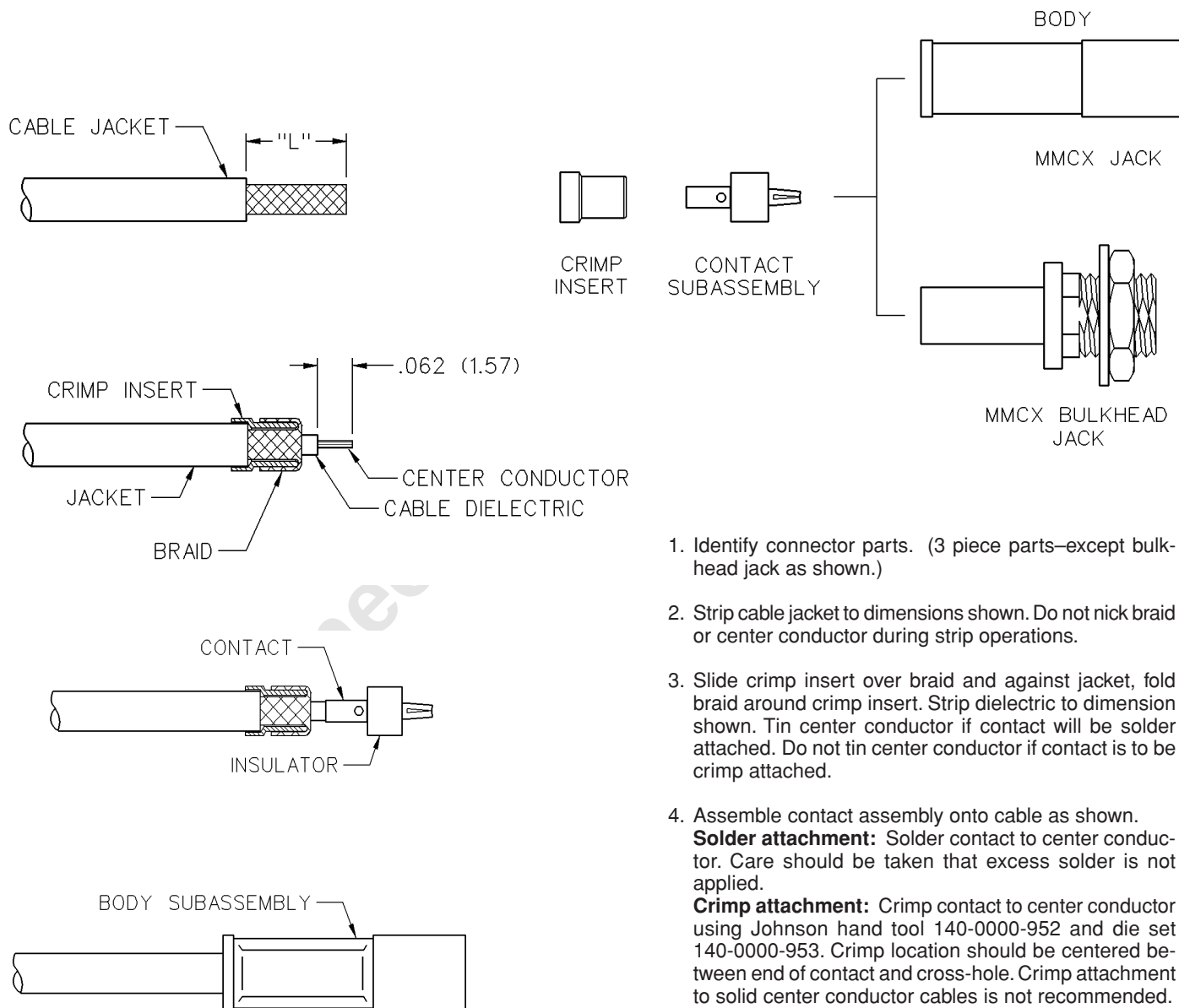


1. Identify connector parts. (3 piece parts)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. Slide crimp sleeve onto cable jacket.
3. Assemble contact onto cable.
Solder attachment: Solder contact to center conductor. Care should be taken that excess solder is not applied.
Crimp attachment: Crimp contact to center conductor using Johnson hand tool 140-0000-952 and die set 140-0000-953. Crimp location should be centered between end of contact and cross-hole. Crimp attachment to solid center conductor cables is not recommended.
4. Slide body assembly over contact and under braid, then seat firmly onto contact. The body assembly will "snap" over the contact barb. The cable may have to be held in a soft jawed clamping fixture. Slide crimp sleeve forward and crimp using recommended crimp die hex.



MMCX Straight Jack for .047 Diameter and RG-178 Size Flexible Cable

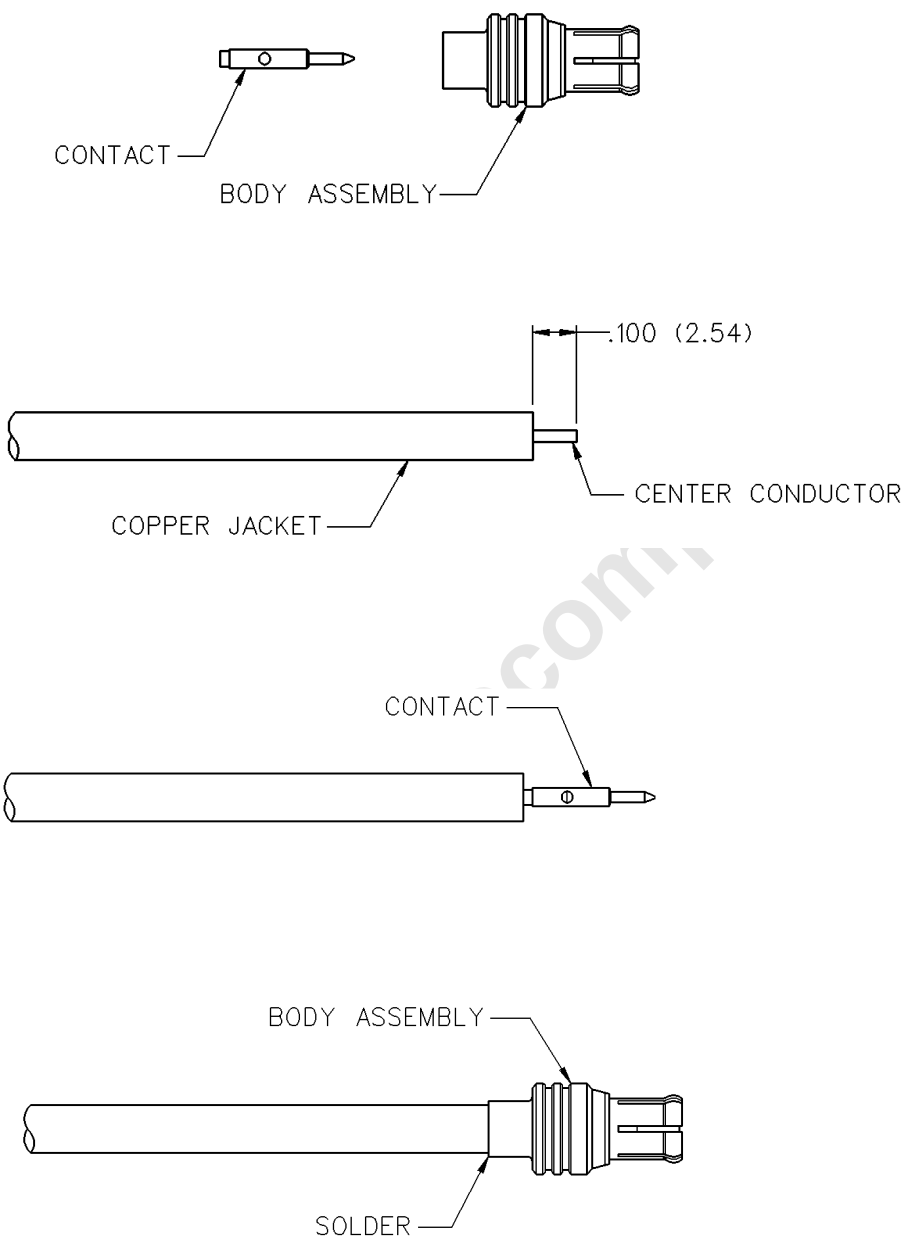
CABLE GROUP	PART NO.	"L"	CRIMP HEX
.047 Flexible	135-3336-001	.135 (3.43)	.105 (2.67) x .250 (6.35) W
	135-3336-401	.135 (3.43)	.105 (2.67) x .250 (6.35) W
RG-178/U, 196	135-3302-001	.185 (4.67)	.105 (2.67) x .250 (6.35) W
	135-3302-401	.185 (4.67)	.105 (2.67) x .250 (6.35) W



1. Identify connector parts. (3 piece parts—except bulk-head jack as shown.)
2. Strip cable jacket to dimensions shown. Do not nick braid or center conductor during strip operations.
3. Slide crimp insert over braid and against jacket, fold braid around crimp insert. Strip dielectric to dimension shown. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached.
4. Assemble contact assembly onto cable as shown.
Solder attachment: Solder contact to center conductor. Care should be taken that excess solder is not applied.
Crimp attachment: Crimp contact to center conductor using Johnson hand tool 140-0000-952 and die set 140-0000-953. Crimp location should be centered between end of contact and cross-hole. Crimp attachment to solid center conductor cables is not recommended.
5. Slide body assembly over contact and crimp insert, then seat firmly onto contact. Crimp body using recommended crimp hex. Bulkhead jack requires 140-000-951 die set. Maintain forward pressure on cable while crimping.

MCX Solder Type Straight Plug for Semi-Rigid Cable

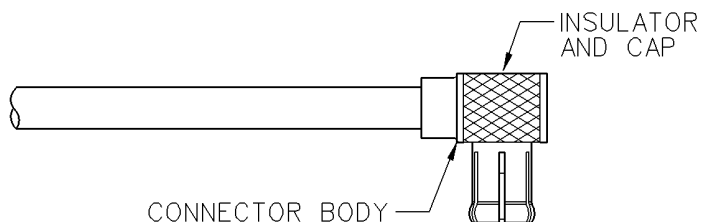
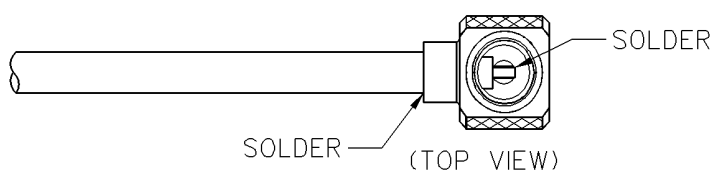
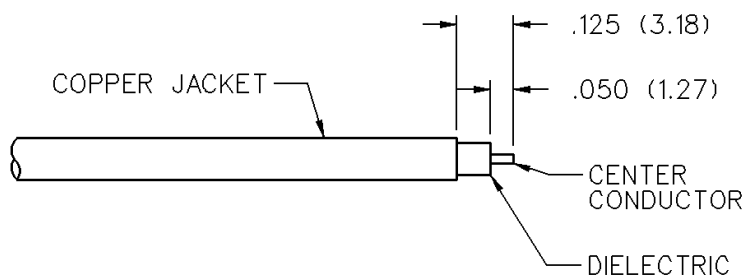
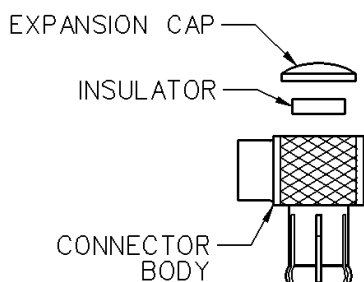
CABLE TYPE	PART NO.
RG-405/U	133-3693-001
(.086 Semi-Rigid)	133-3693-006



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor.
3. Place center contact on center conductor making sure contact bottoms against cable insulation. Solder center conductor to center contact through solder hole. Solder **must not** be allowed to run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Trim excess insulation.
4. Insert contact and cable into body assembly making sure cable is bottomed against insulator in body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement.

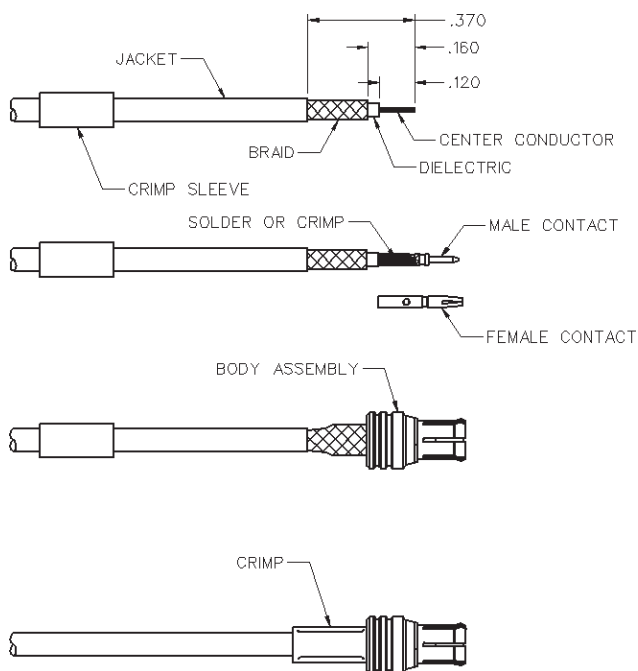
MCX Solder Type Right Angle Plug for Semi-Rigid Cable

CABLE GROUP	PART NO.
RG-405/U	133-3693-101
(.086 Semi-Rigid)	133-3693-106

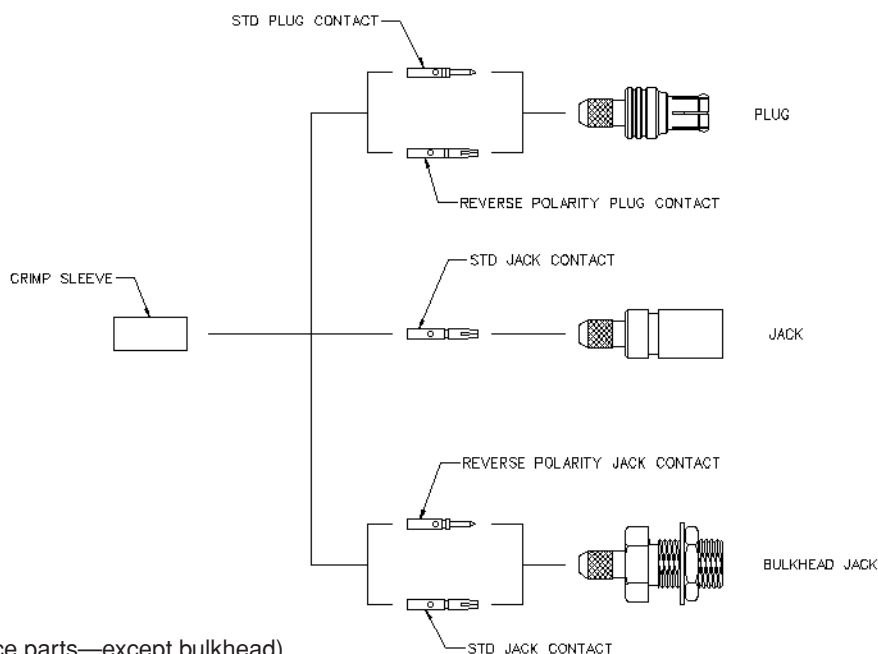


1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor.
3. Insert cable into body making sure cable insulation bottoms on center contact. Solder center conductor to contact through the rear access port. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement. Assemble insulator then place expansion cap in access port and seat with a .156 (3.96) diameter punch or hand tool 141-0000-908.

MCX Crimp Type Straight Connectors for Flexible Cable



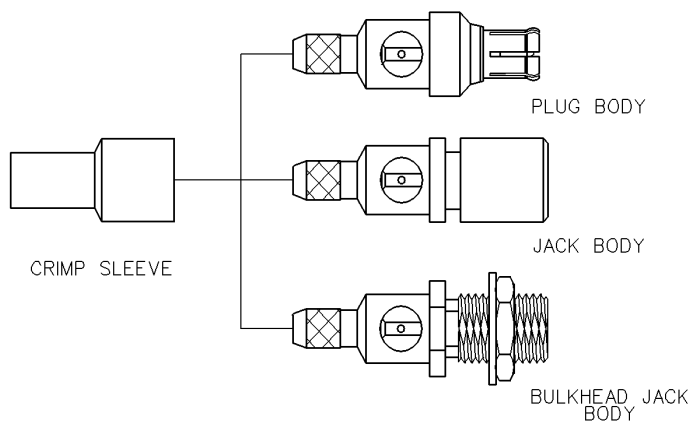
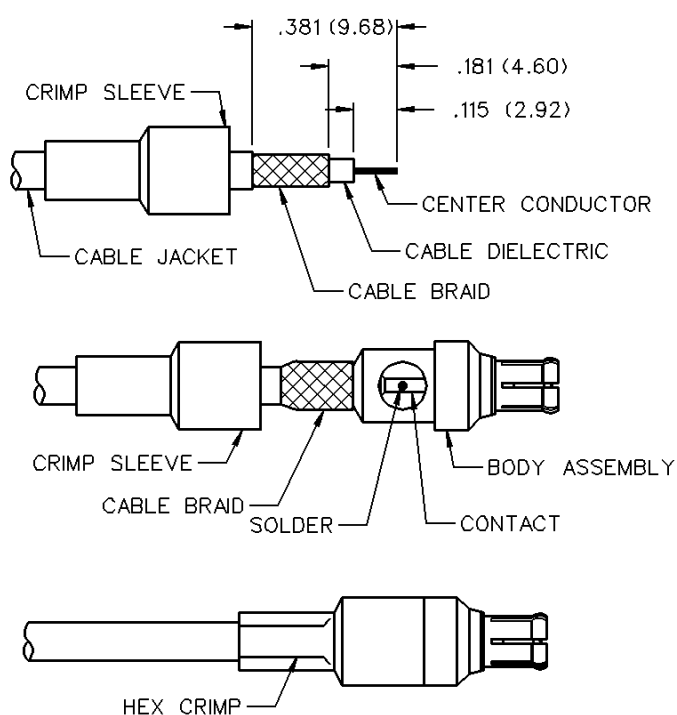
CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	133-3302-001/006	.105 (2.67)
	133-3302-401/406	.105 (2.67)
RG-316/U, 161, 174, 188	133-3303-001/006	.128 (3.25)
	133-3303-401/406	.128 (3.25)
RG-316 DS, 188 DS	133-3304-001/006	.151 (3.83)
	133-3304-401/406	.151 (3.83)
RG-178/U, 196	133-3402-001/006	.105 (2.67)
RG-316/U, 161, 174, 188	133-3403-001/006	.128 (3.25)
RG-316 DS, 188 DS	133-3404-001/006	.151 (3.83)
RG-179/U, 187	133-3433-001/006	.128 (3.25)
RG-178/U, 196	133-5302-401/406	.105 (2.67)
RG-316/U, 161, 174, 188	133-5303-401/406	.128 (3.25)
RG-316 DS, 188 DS	133-5304-401/406	.151 (3.83)
RG-178/U, 196	133-5402-001/006	.105 (2.67)
RG-316/U, 161, 174, 188	133-5403-001/006	.128 (3.25)
RG-316 DS, 188 DS	133-5404-001/006	.151 (3.83)
RG-316/U, 188, 174	133-9403-001	.128 (3.25)
RG-316 DS, 188 DS	133-9404-001	.151 (3.83)



1. Identify connector parts. (3 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact is to be solder attached. Do not tin center conductor if contact is to be crimp attached. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown.
Solder attachment. Solder contact to center conductor through solder hole using .020 (0.51) diameter solder. Use a minimum of solder for a good joint.
Crimp attachment. Crimp contact to center conductor using a miniature 8 indent tool 140-0000-970 with positioner 140-0000-971. Crimp location should be centered between end of contact and cross hole. Crimp attachment to solid center conductor cable is not recommended.
4. Flair braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. (RG-178 is non-captivated, RG-316 incorporates snap-fit captivation.) The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp tool. Slide heat shrink forward and shrink (as applicable).

MCX Crimp Type Straight Connectors for Flexible Cable - 75 Ohm

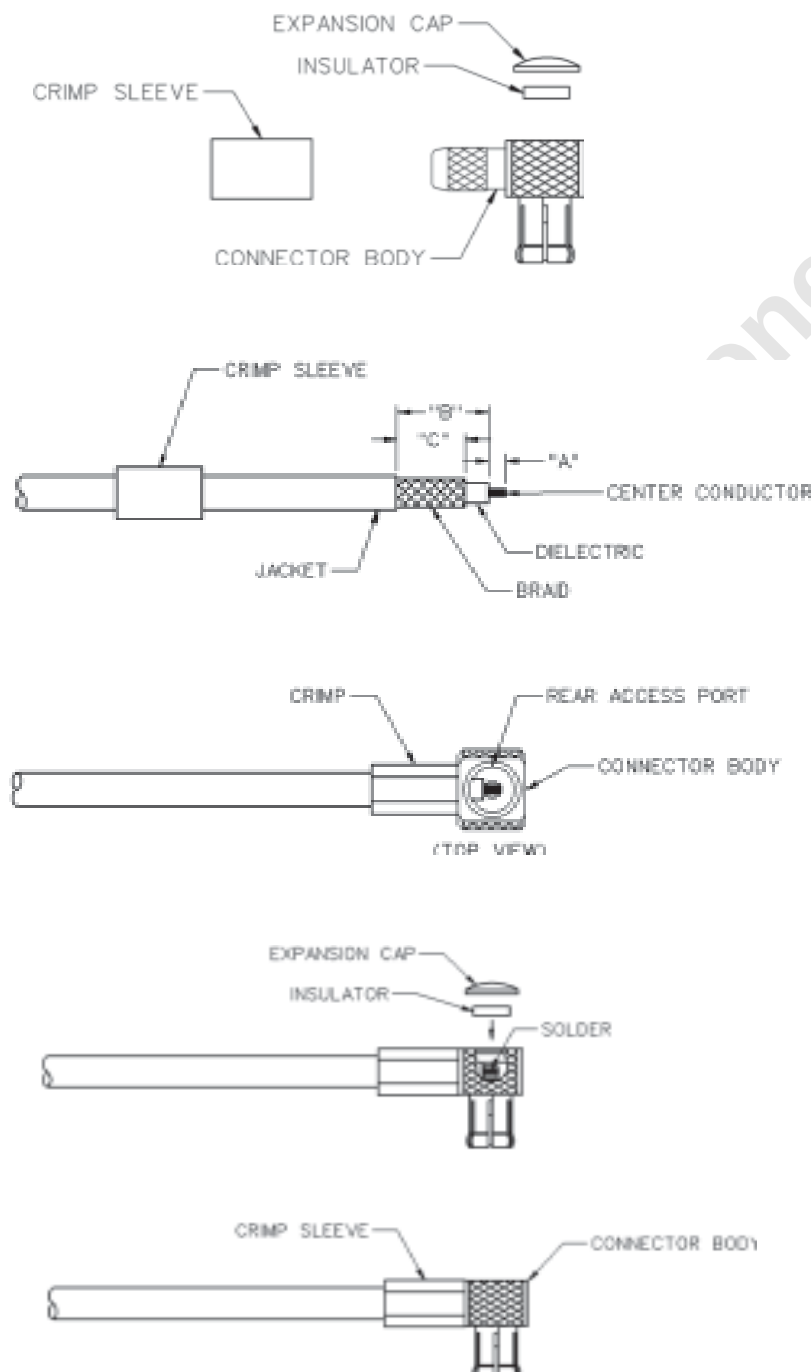
CABLE GROUP	PART NO.	CRIMP HEX
RG-179	133-8433-001	.128 (3.25)
RG-179 DS	133-8434-001	.151 (3.83)
RG-179	133-8333-001	.128 (3.25)
RG-179 DS	133-8334-001	.151 (3.83)
RG-179	133-8333-401	.128 (3.25)
RG-179 DS	133-8334-401	.151 (3.83)
BELDEN 735A	133-8445-001	.151 (3.83)



1. Identify connector parts. (2 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable dielectric bottoms against center contact.
Solder: Solder center conductor to contact through the side access ports and hole in center contact. Use a minimum amount of solder for a full fillet joint. **.015 (0.38) diameter solder is recommended.**
Crimp: Crimp Contact Attachment: Crimp contact using 141-0000-924 dieset in 144-0000-900 tool frame.
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and access ports. Crimp securely using recommended hex size and crimp tool.

MCX Crimp Type Right Angle Plugs for Flexible Cable - 50 Ohm

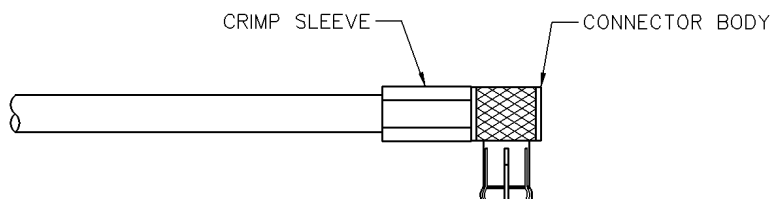
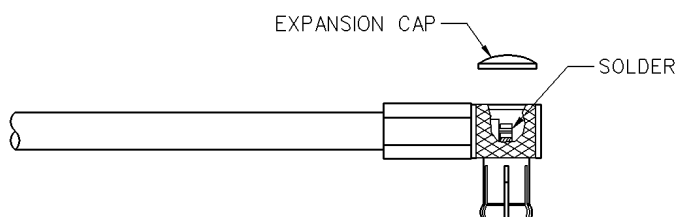
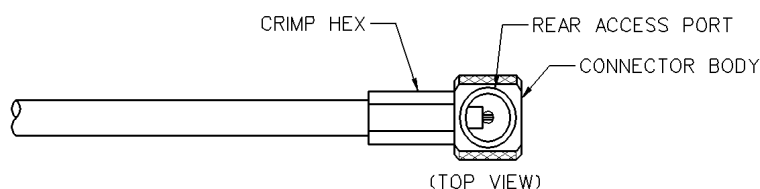
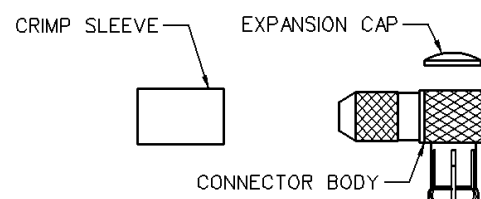
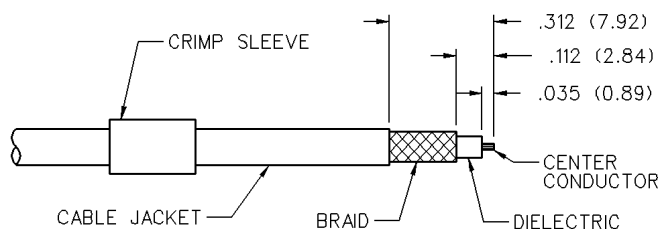
CABLE GROUP	PART NO.	"A"	"B"	"C"	CRIMP HEX
RG-178/U, 196	133-3402-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.105 (2.67)
RG-188/U, 316, 161, 174	133-3403-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.128 (3.25)
RG-316 DS, 188 DS	133-3404-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.151 (3.83)
RG-179/U, 187	133-3433-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.128 (3.25)
RG-178/U, 196	133-5402-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.105 (2.67)
RG-188/U, 316, 161, 174	133-5403-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.128 (3.25)
RG-316 DS, 188 DS	133-5404-101/106	.050 (1.27)	.270 (6.86)	.200 (5.08)	.151 (3.83)
RG-58/U, 303, 141	133-3407-101/106	.067 (1.70)	.295 (7.49)	.210 (5.33)	.213 (5.41)
RG-316/U, 188, 174	133-9403-101	.050 (1.27)	.270 (6.86)	.200 (5.08)	.128 (3.25)
RG-316 DS, 188 DS	133-9404-101	.050 (1.27)	.270 (6.86)	.200 (5.08)	.151 (3.83)



1. Identify connector parts. (4 piece parts except RG-58)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve onto cable shown.
3. Flair braid and slide cable into body making certain that the cable insulation bottoms on center contact. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.
4. Solder center conductor to contact through rear access port. Use a minimum amount of solder for a full fillet joint. **.020 (0.51) diameter solder is recommended.**
5. Assemble insulator, if applicable; then place expansion cap in access port and seat with .156 (3.96) diameter flat punch or MCX hand assembly tool 141-0000-908. Shrink heat shrink tubing over crimp sleeve if applicable.

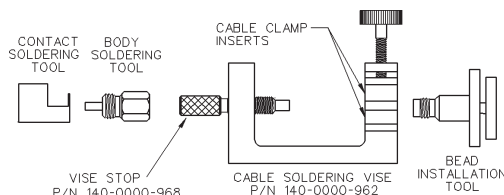
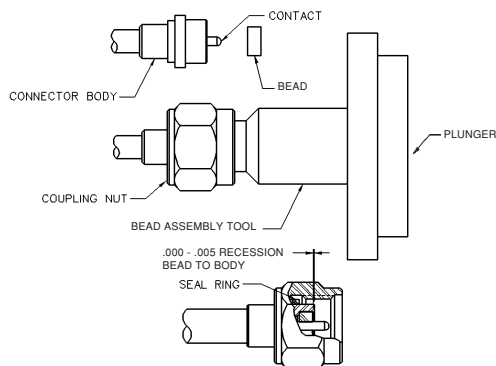
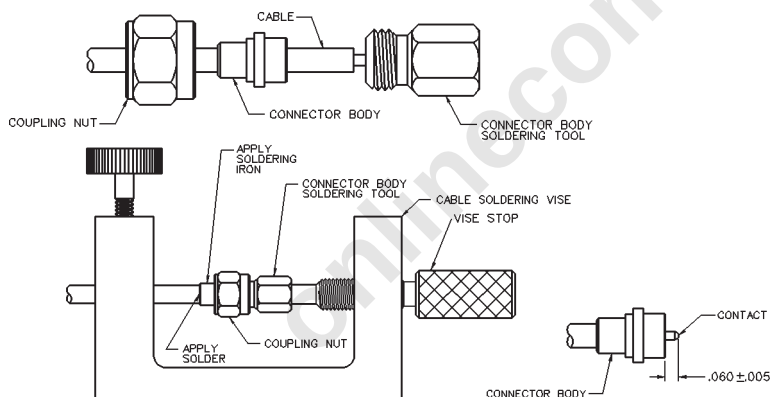
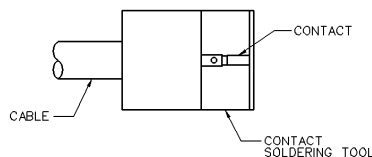
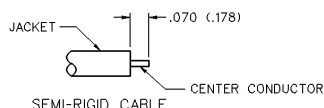
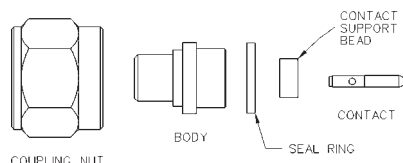
MCX Crimp Type Right Angle Plugs for Flexible Cable - 75 Ohm

CABLE TYPE	PART NO.	CRIMP HEX
RG-179	133-8433-101	.128 (3.25)
RG-179 DS	133-8434-101	.151 (3.83)
BELDEN 735A	133-8445-101	.151 (3.83)



1. Identify connector parts (3-piece parts).
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve onto cable as shown.
3. Flair braid and slide cable into body making certain that the cable dielectric bottoms on center contact. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.
4. Solder center conductor to contact through rear access port. Use a minimum amount of solder for a full fillet joint. **.020 (0.51) diameter solder is recommended.**
5. Place expansion cap in access port and seat with .156 (3.96) diameter flat punch or MCX hand assembly tool 141-0000-908. Shrink heat shrink tubing over crimp sleeve if applicable.

SMK Solder Type Straight Plugs for Semi-Rigid Cable

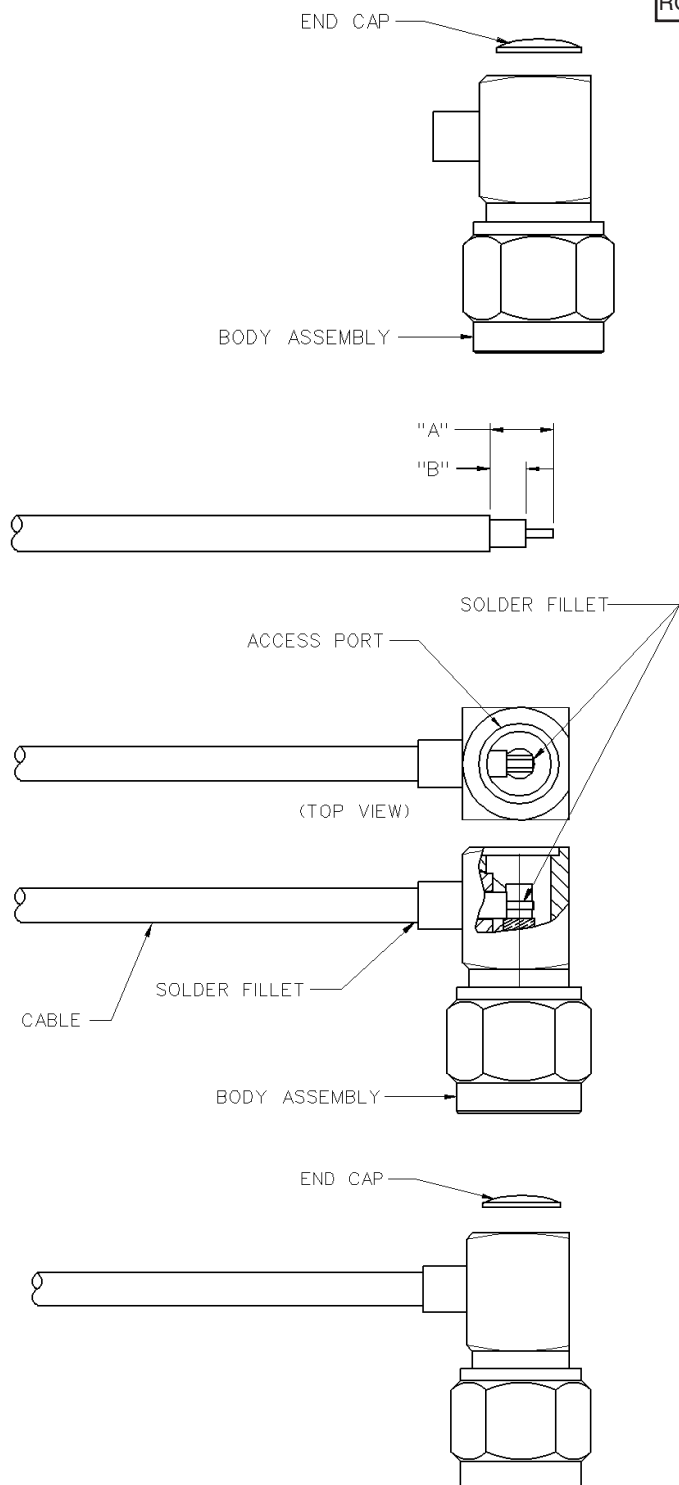


1. Identify connector parts (5 piece parts) and tools (5 tools.)
2. Strip cable jacket and dielectric to dimension shown.
3. Place center contact onto center conductor. Slide contact soldering tool onto contact. Clamp the cable contact and tool into cable soldering vise and solder contact to center conductor. **High temperature** solder, such as 95/5 Sn/Ag is recommended so that contact solder joint remains stable during body soldering operation. Solder paste is recommended for the contact solder joint to minimize excess solder. The assembled contact dimension should be as shown.
4. Remove excess solder from contact with a sharp blade and clean contact. Check for presence of excess solder by sliding body soldering tool over the contact. Remove soldering tool.
5. Place connector nut and body on cable. Place connector body soldering tool over contact and thread the coupling nut and connector body firmly to the tool. Place cable subassembly into cable soldering vise. Clamp cable and soldering tool securely to insure the cable dielectric expansion will not disturb the cable in the vise during soldering. Place hot soldering iron on the connector body sleeve and apply solder from the opposite side. A **low temp** solder, such as 60/40 Sn/Pb is recommended for the body solder joint. Allow the soldered joint to cool and remove from fixture. Check contact location to the body. The best electrical results are achieved when the contact location is within a tolerance of .060 +/- .001.
6. Place bead onto neck portion of the tool. Thread Bead Assembly tool firmly into the coupling nut. Push the tool's plunger between your thumb and fingers to assemble the bead. Check bead location. Assemble seal ring onto body.

TOOL	145-0693-001/002 (for .086 Semi-Rigid)	145-0694-001/002 (for .141 Semi-Rigid)
Semi-Rigid Cable Vise	140-0000-962	140-0000-962
Vise Stop	140-0000-968	140-0000-968
Bead Assy. Tool	140-0000-957	140-0000-957
Contact Soldering Tool	140-0000-960	140-0000-961
Body Soldering Tool	140-0000-958	140-0000-959
Cable Clamp Insert	140-0000-964	140-0000-965

SMA Right Angle Solder Type Plug for Semi-Rigid Cable

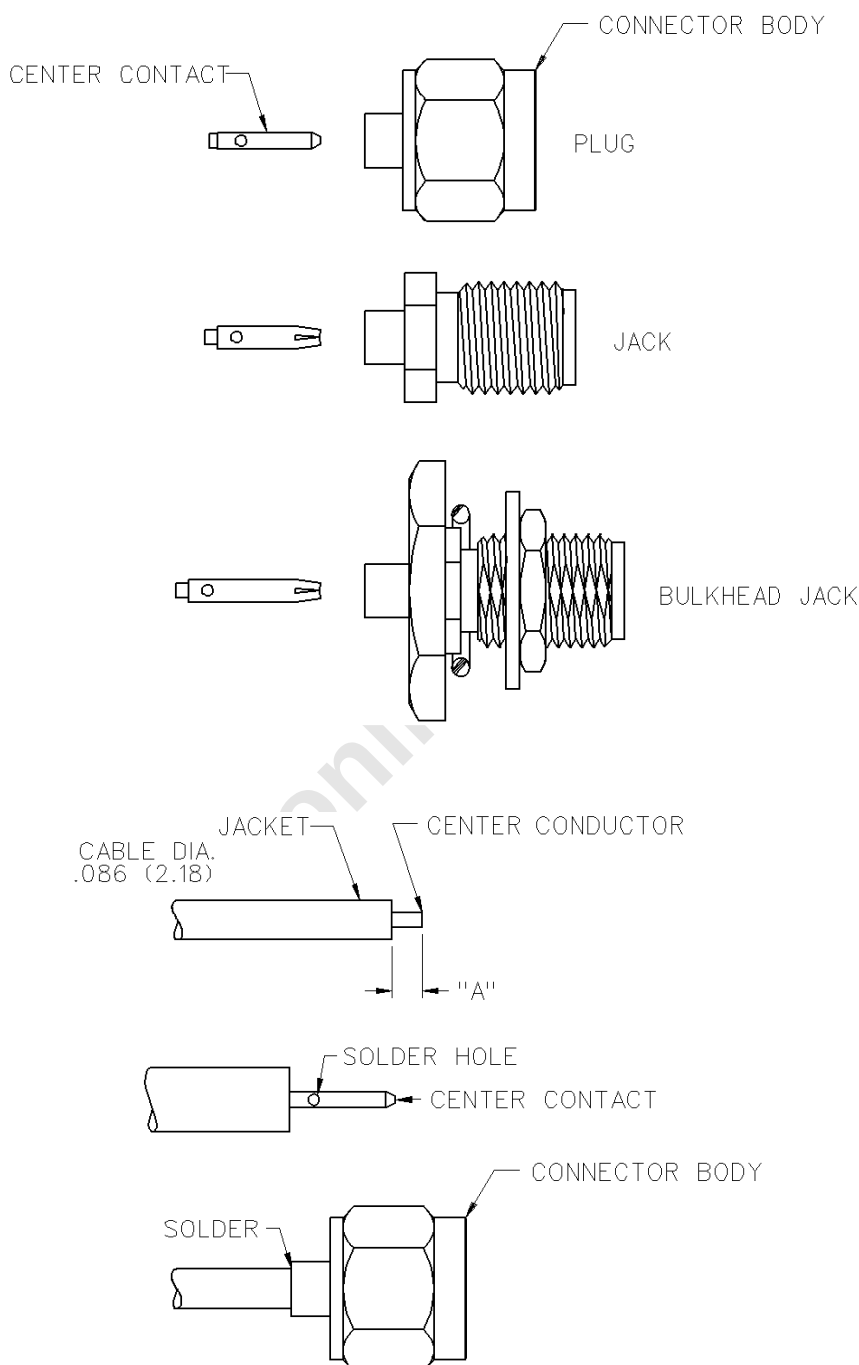
CABLE GROUP	PART NO.	"A"	"B"
RG-405/U (.086 Semi-Rigid)	142-0693-101/106	.145 (3.68)	.075 (1.90)
RG-402/U (.141 Semi-Rigid)	142-0694-101/106	.170 (4.32)	.105 (2.67)



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor during strip operations.
3. Insert cable into body making certain that the cable jacket is butted against internal body shoulder and cable dielectric is started into cross hole. Solder center conductor to contact using 60/40 tin/lead solder as shown. Use a minimum amount of solder for a good joint.
4. Solder body to cable using 60/40 tin/lead solder as shown. Use a minimum of heat to minimize cable dielectric growth. Any growth of cable dielectric shall be flush with contact.
5. Press end cap into body access port using .187 (4.75) dia. flat punch.

SMA Solder Type Straight Jacks, Straight Plugs, and Straight Bulkhead Jacks for Semi-Rigid Cable

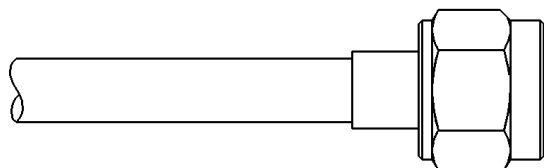
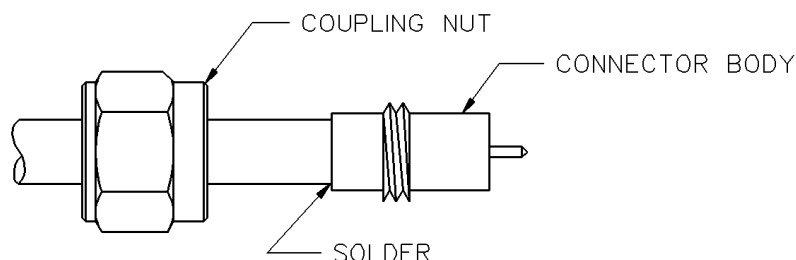
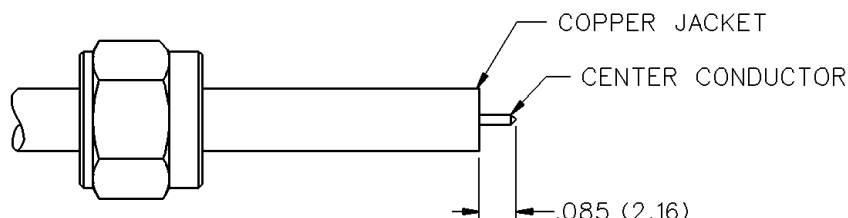
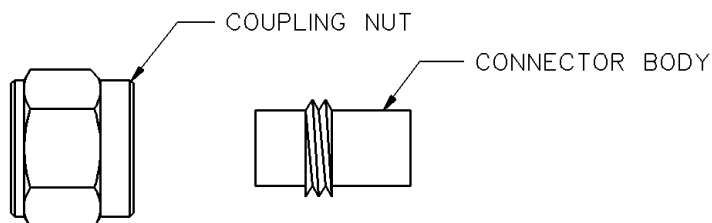
CABLE GROUP	PART NO.	"A"
RG-405/U (.086 Semi-Rigid)	142-0593-001/006	.070 (1.78)
	142-0593-401/406	
	142-0593-411/416	
	142-0693-001/006	
RG-402/U (.141 Semi-Rigid)	142-0594-001/006	.085 (2.16)
	142-0594-401/406	
	142-0694-001/006	



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor.
3. Place center contact on center conductor making sure contact bottoms against cable insulation. Solder center conductor to center contact through solder hole. Solder **must not** be allowed to run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Trim excess insulation.
4. Insert contact and cable into body assembly making sure cable is bottomed against insulator in body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement.

SMA Solder Type Straight Plugs for Semi-Rigid Cable

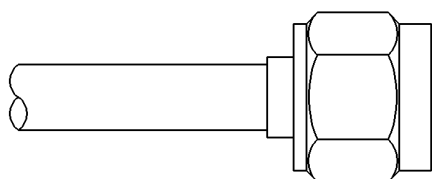
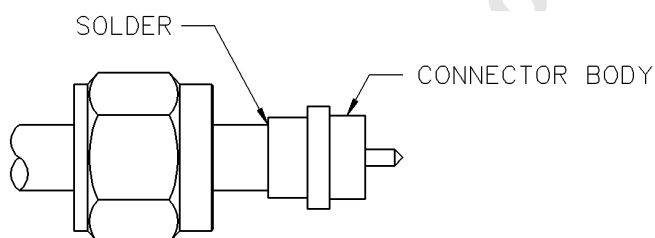
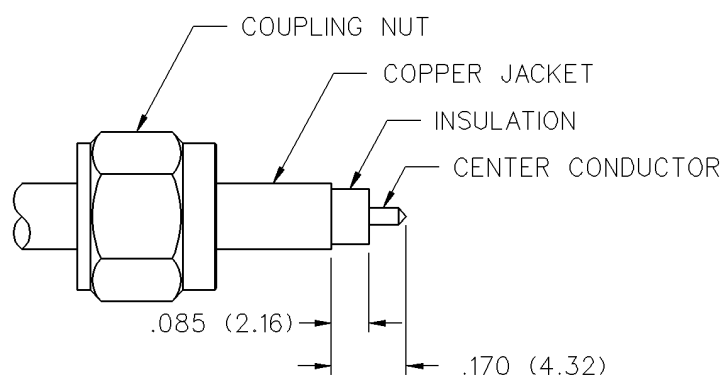
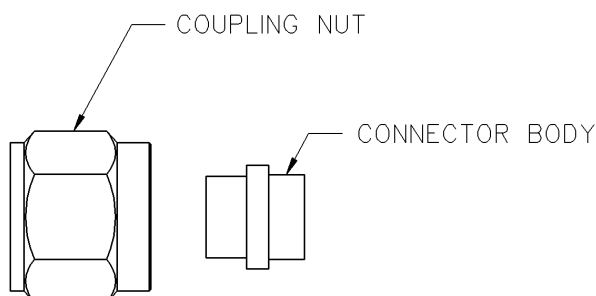
CABLE GROUP	PART NO.
RG-402/U	142-0694-011
(.141 Semi-Rigid)	142-0694-016



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor. Bevel the cable center conductor per contact detail of SMA interface on page 24. Slide coupling nut onto cable as shown.
3. Insert cable into body making sure cable jacket is flush with front of body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement. Trim expanded insulation flush with front of body or fixture body and cable during soldering to prevent cable insulation expansion.
4. Thread coupling nut over body.

SMA Solder Type Straight Plugs for Semi-Rigid Cable

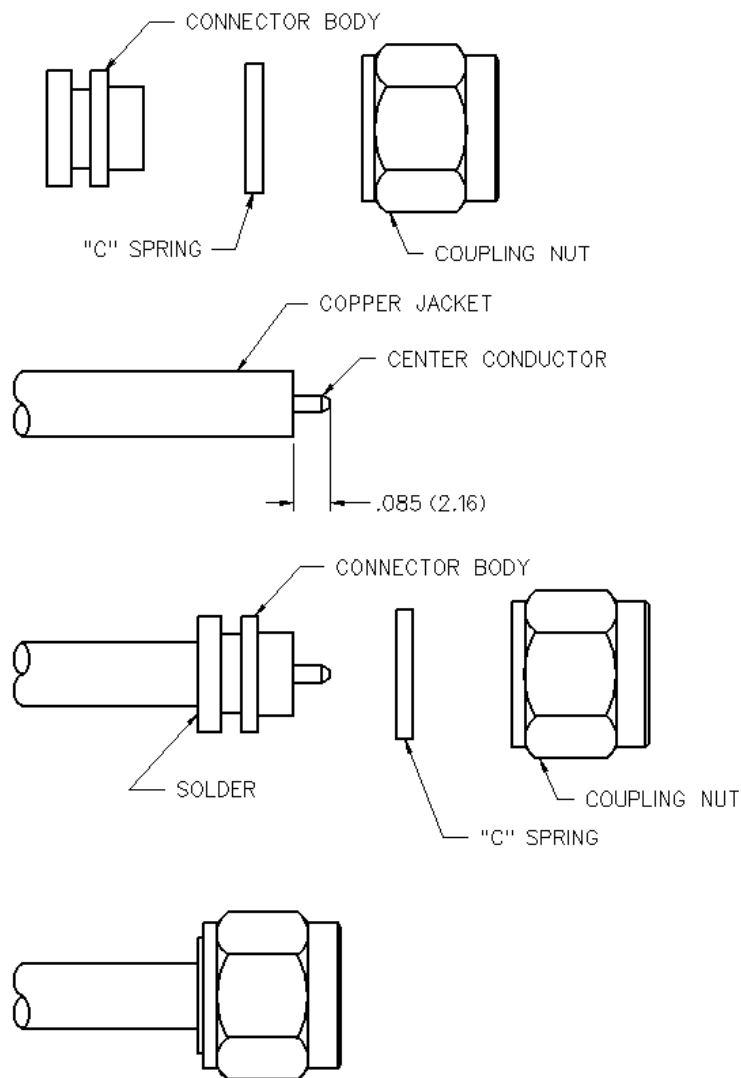
CABLE GROUP	PART NO.
RG-402/U (.141 Semi-Rigid)	142-0694-021
	142-0694-026
	142-0694-041
	142-0694-046



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor. Bevel the cable center conductor per contact detail of SMA interface on page 24. Slide coupling nut onto cable as shown.
3. Insert cable into body making sure cable jacket is bottomed against shoulder inside of body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement. Trim expanded insulation flush with front of body or fixture body and cable during soldering to prevent insulation expansion.
4. Thread coupling nut over body.

SMA Solder Type Straight Plugs for Semi-Rigid Cable

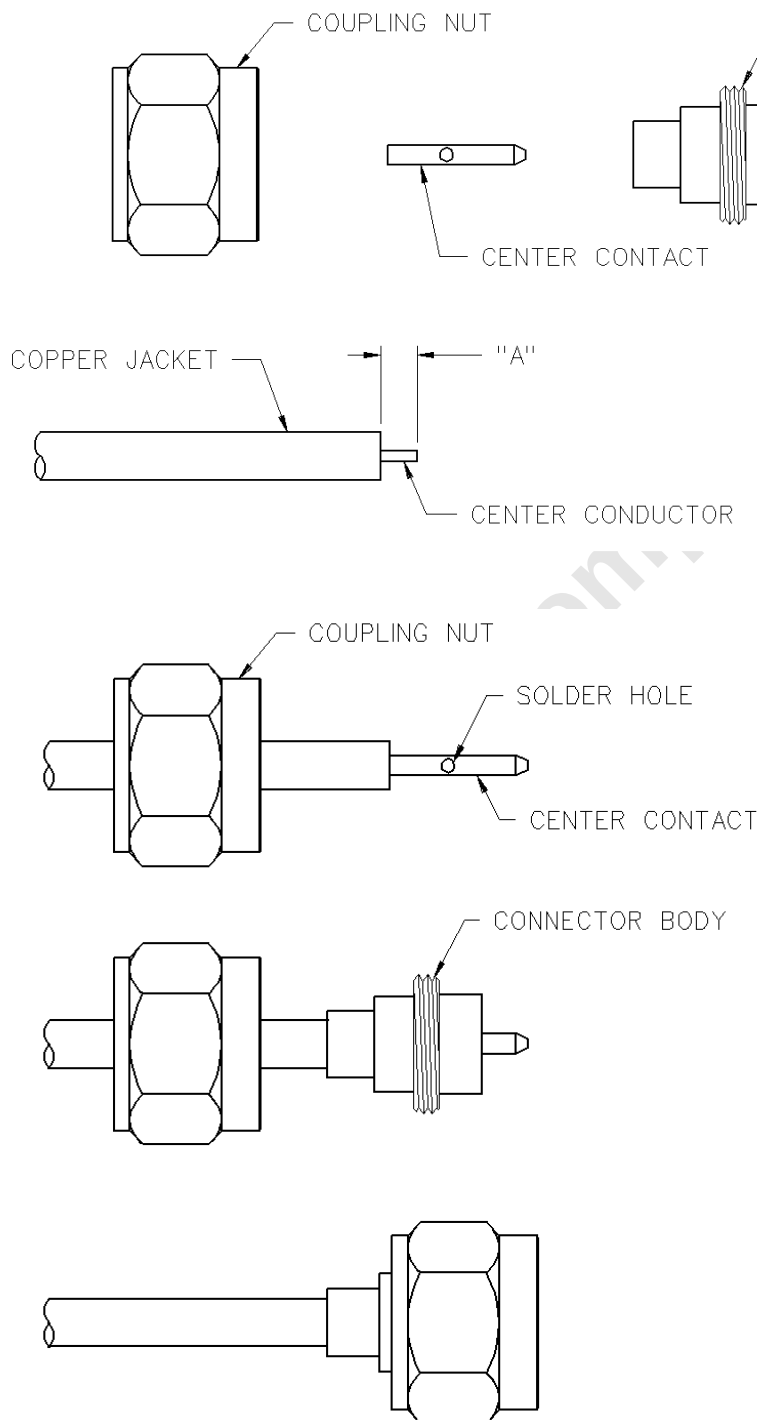
CABLE GROUP	PART NO.
RG-402/U	142-0694-031
(.141 Semi-Rigid)	142-0694-036



1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor. Bevel the cable center conductor per contact detail of SMA interface on page 24.
3. Insert cable into body making sure cable jacket is flush with front of body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement. Trim expanded cable insulation flush with front of body or fixture body and cable during soldering to prevent insulation expansion.
4. Snap "C" spring onto connector body groove. Compress "C" spring using 141-0000-904 compression tool. Install coupling nut onto connector body. Nut should spin freely.

SMA Solder Type Straight Plugs for Semi-Rigid Cable

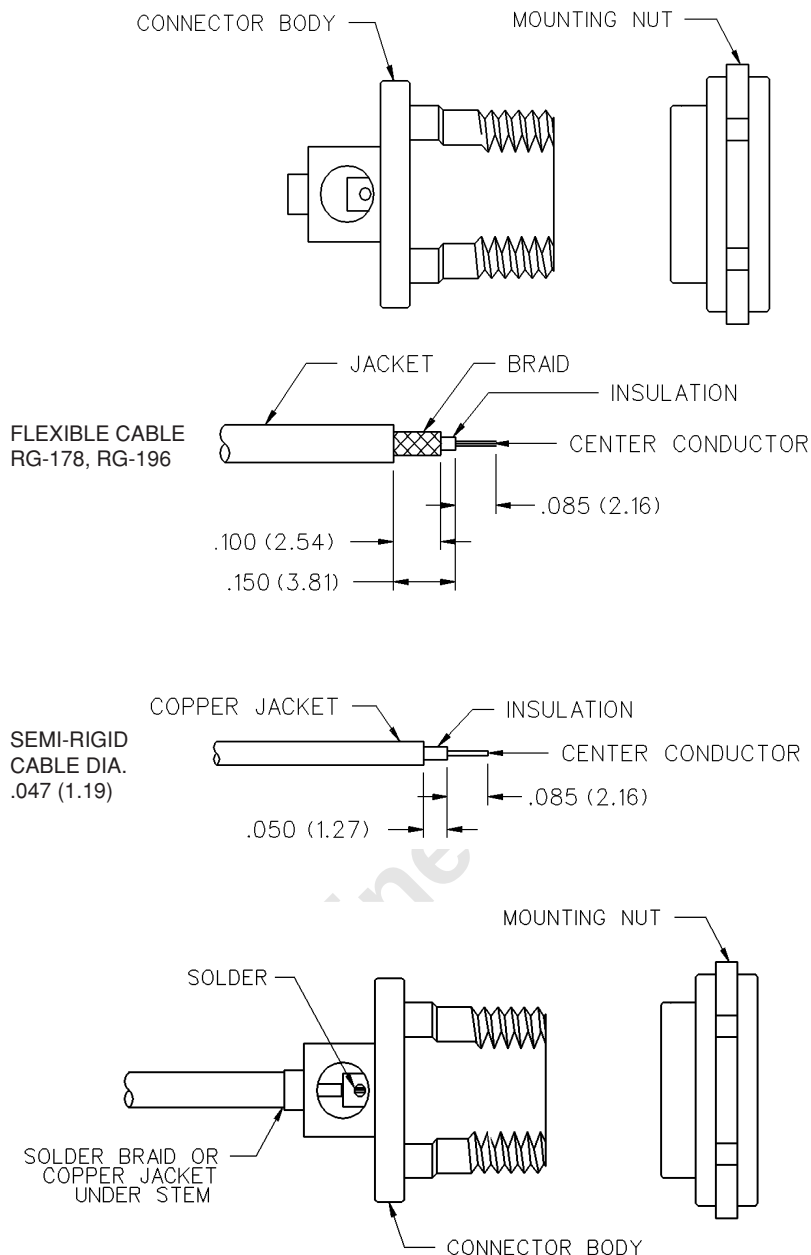
CABLE GROUP	PART NO.	"A"
RG-405/U (.086 Semi-Rigid)	142-0693-051	.070 (1.78)
	142-0693-056	.070 (1.78)
RG-402/U (.141 Semi-Rigid)	142-0694-051	.085 (2.16)
	142-0694-056	.085 (2.16)



1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor. Slide coupling nut onto cable as shown.
3. Place center contact on center conductor making sure contact bottoms against cable insulation. Solder center conductor to center contact through solder hole. Solder **must not** be allowed to run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Trim excess insulation.
4. Insert contact and cable into body making sure cable is bottomed against insulator in body. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement.
5. Thread coupling nut over body.

SMA Solder Type Antenna Connector Plug for Flexible or Semi-Rigid Cable

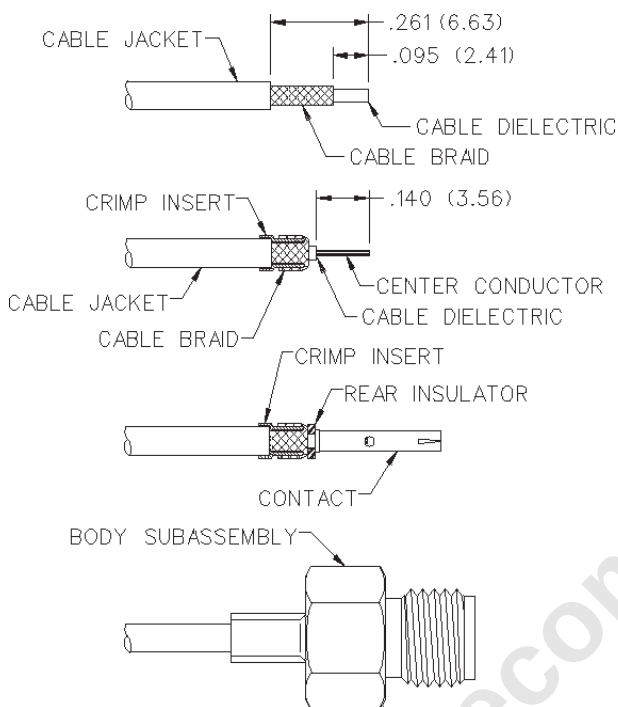
CABLE GROUP	PART NO.
RG-178/U, .047 Semi-Rigid	142-0801-421



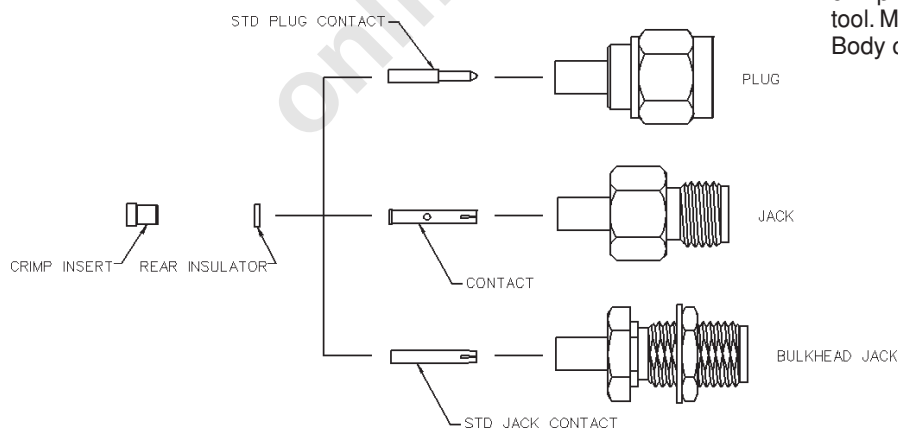
1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick center conductor or braid on flexible cable.
3. **Flexible Cable Attachment:** Twist stranded center conductor into tight bundle and tin (optional). Slide cable into body, making sure cable insulation bottoms on center contact and braid fits inside stem. Solder center conductor to contact through the side access ports. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Solder braid to body. Use a minimum amount of solder to completely join the braid to the body.
Semi-Rigid Cable Attachments: Slide cable into body making certain cable insulation bottoms on center contact. Solder center conductor to contact through the side access ports. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Solder body to cable jacket. Use a minimum amount of heat to minimize cable insulation movement.

SMA 3-Piece Plug, Jack and Bulkhead Jack for RG-178 Flexible Cable

CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	142-0402-011	.105 (2.67)
	142-0402-016	.105 (2.67)
	142-0302-011	.105 (2.67)
	142-0302-016	.105 (2.67)
	142-0302-431	.105 (2.67)
	142-0302-436	.105 (2.67)



1. Identify piece parts. (4 piece parts plus nut and washer for bulkhead.)
2. Strip cable jacket and braid to dimensions shown. Do not nick braid during strip operations.
3. Slide crimp insert over braid and against jacket. Fold braid around crimp insert as shown. Strip dielectric to dimension shown. If cable is being manually stripped the rear insulator can be assembled and used as a guide. Do not nick center conductor during strip operation. Tin center conductor if contact is to be solder attached. Do not tin center conductor if contact is to be crimp attached.
4. Assemble rear insulator over cable dielectric and contact over center conductor as shown.
Solder attachment: Solder contact to center conductor using 60/40 tin/lead solder. Care should be taken that excess solder is not applied.
Crimp attachment: Crimp contact to center conductor using production tooling or hand tool 144-0000-910, setting #2 with positioner 141-0000-907. Crimp location should be centered between end of contact and x-hole. Crimp attachment to solid center conductor cables is not recommended.
5. Slide body assembly over contact, rear insulator and crimp insert. Crimp body using recommended crimp tool. Maintain forward pressure on cable while crimping. Body crimp die hex: .105 (2.67) hex



SMA Type Straight Plugs, Straight Jacks, and Straight Bulkhead Jacks for Flexible Cable - Crimp or Solder Contacts

1. Identify connector parts. (3 piece parts—except bulkhead)

2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. When stripping LMR-100 low loss cable, remove foil back to where cable jacket is stripped. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.

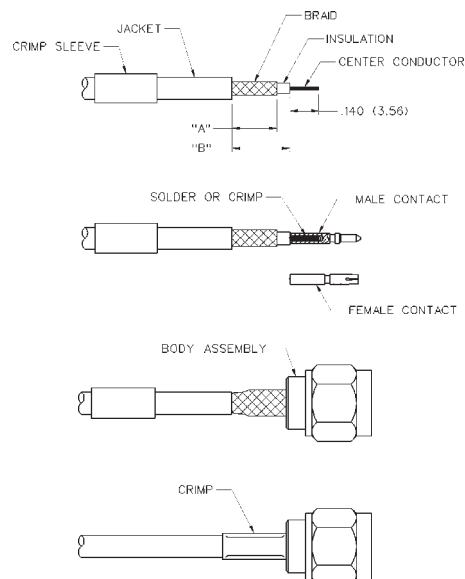
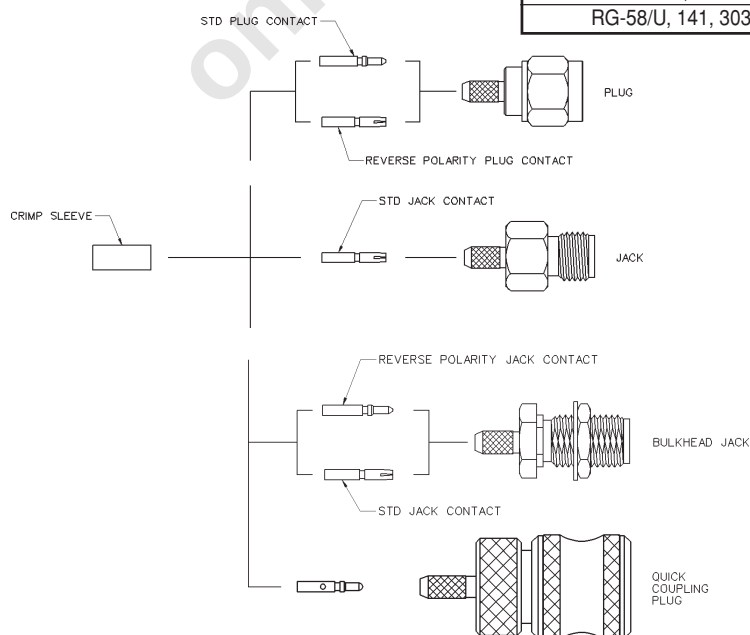
3. Assemble contact onto cable as shown.

Solder Attachment: Solder contact to center conductor through solder hole using .020 (0.51) diameter solder. Use a minimum amount of solder for a good joint.

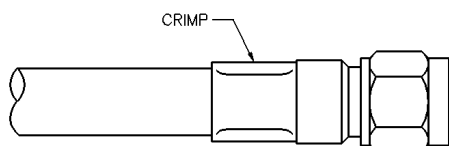
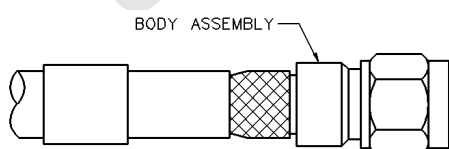
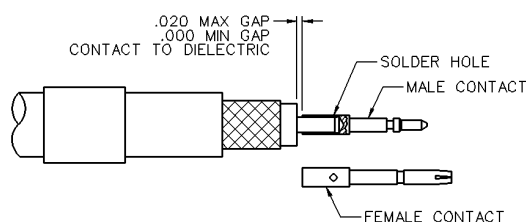
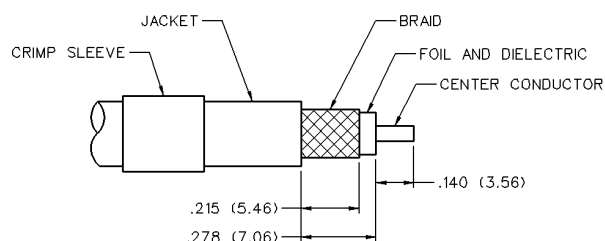
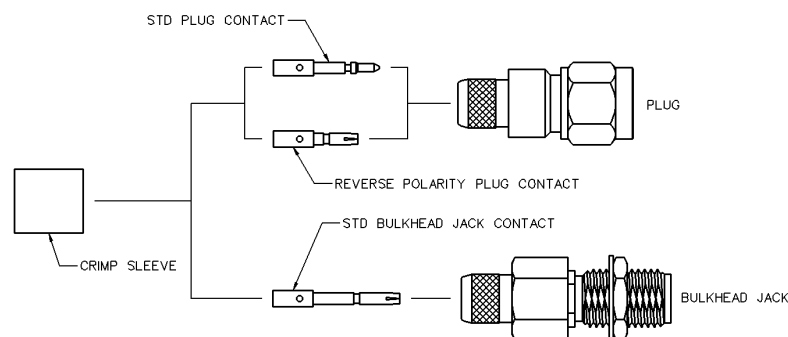
Crimp Attachment: Crimp contact to center conductor using Johnson Hand Tool 144-0000-910, setting #2, with positioner 141-0000-907. Crimp location should be centered between end of contact and X-hole. Crimp attachment to solid center conductor cables is not recommended.

4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp tool. Slide heat shrink forward and shrink (as applicable).

CABLE GROUP	PART NO.	"A"	"B"	CRIMP HEX
RG-316/U, 161, 174, 188; LMR-100	142-0303-011/016	.215 (5.46)	.278 (7.06)	.128 (3.25)
	142-0303-411/416	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-0304-011/016	.215 (5.46)	.278 (7.06)	.151 (3.83)
	142-0304-411/416	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-0307-011/016	.215 (5.46)	.278 (7.06)	.213 (5.41)
	142-0307-411/416	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-0308-011/016	.215 (5.46)	.278 (7.06)	.213 (5.41)
	142-0308-411/416	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-179/U, 187	142-0333-011/016	.215 (5.46)	.278 (7.06)	.128 (3.25)
	142-0333-411/416	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316/U, 161, 174, 188; LMR-100	142-0403-011/016	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-0404-011/016	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-0407-011/016	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-0408-011/016	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-179/U, 187	142-0433-011/016	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316/U, 161, 174, 188; LMR-100	142-1403-001/006	.280 (7.11)	.715 (18.16)	.128 (3.25)
RG-316 DS, 188 DS	142-1404-001/006	.280 (7.11)	.715 (18.16)	.151 (3.83)
RG-58/U, 141, 303	142-1407-001/006	.280 (7.11)	.715 (18.16)	.213 (5.41)
RG-55/U, 142, 223, 400	142-1408-001/006	.280 (7.11)	.715 (18.16)	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-4303-401/406	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-4304-401/406	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-4307-401/406	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-4308-401/406	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-4403-001/006	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-4404-001/006	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-4407-001/006	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-4408-001/006	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-5303-401/406	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-5304-401/406	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-5307-401/406	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-5308-401/406	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-5403-001/006	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 18 DS	142-5404-001/006	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-5407-001/006	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-55/U, 142, 223, 400	142-5408-001/006	.215 (5.46)	.278 (7.06)	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-9403-011	.215 (5.46)	.278 (7.06)	.128 (3.25)
RG-316 DS, 188 DS	142-9404-011	.215 (5.46)	.278 (7.06)	.151 (3.83)
RG-58/U, 141, 303	142-9407-011	.215 (5.46)	.278 (7.06)	.213 (5.41)



Straight SMA Low Loss Diameter .195, .200 and .240 Straight Type Plugs

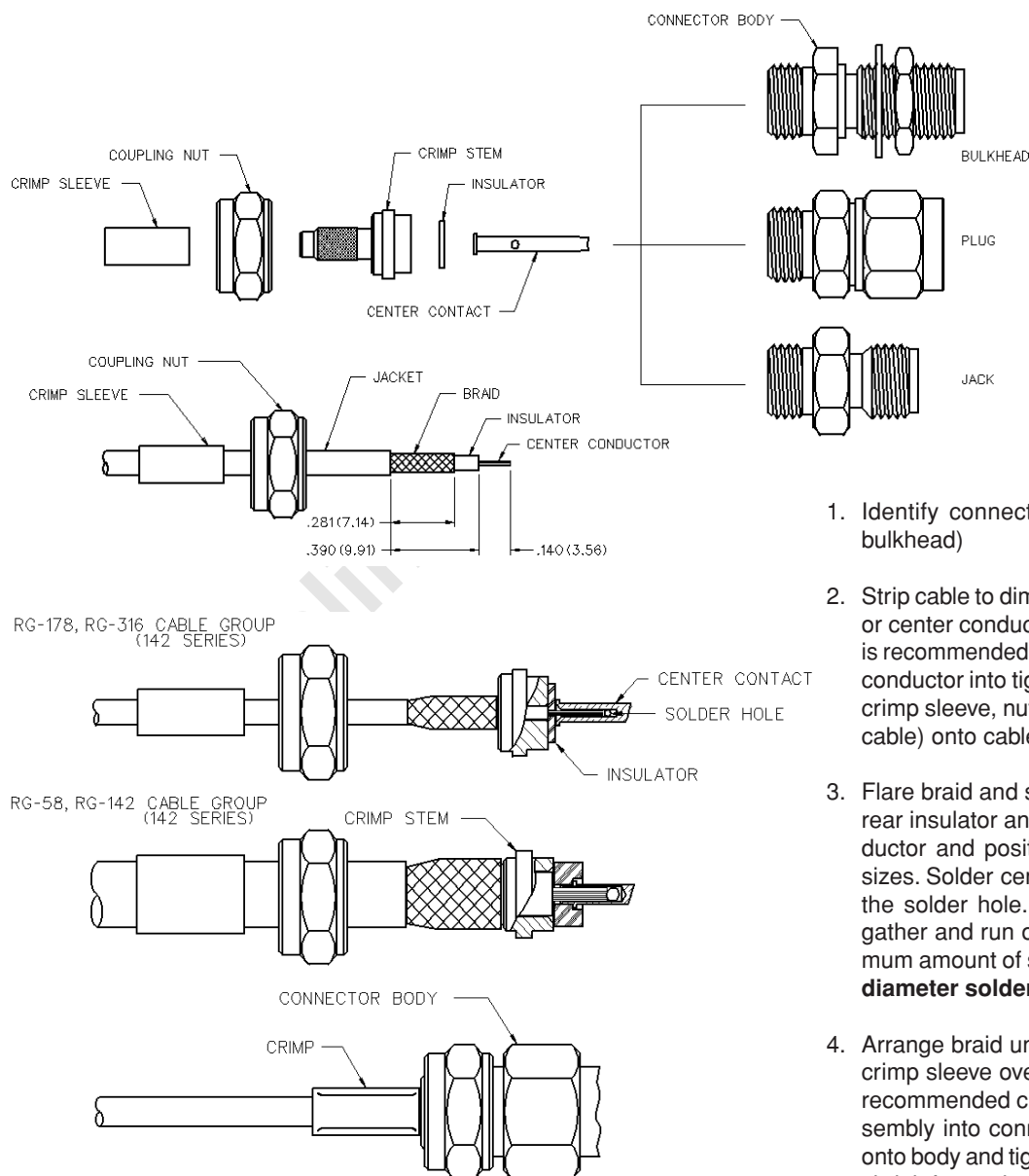


CABLE GROUP	PART NO.	CRIMP HEX
LMR-195	142-0307-411	.213 (5.41)
	142-0307-416	.213 (5.41)
LMR-240	142-0335-401	.255 (6.48)
	142-0335-406	.255 (6.48)
LMR-200	142-0339-401	.213 (5.41)
	142-0339-406	.213 (5.41)
LMR-195	142-0407-011	.213 (5.41)
	142-0407-016	.213 (5.41)
LMR-240	142-0435-001	.255 (6.48)
	142-0435-006	.255 (6.48)
LMR-200	142-0439-001	.213 (5.41)
	142-0439-006	.213 (5.41)
LMR-240	142-4435-001	.255 (6.48)
	142-4435-006	.255 (6.48)
LMR-200	142-4439-001	.213 (5.41)
	142-4439-006	.213 (5.41)
LMR-195	142-4407-001	.213 (5.41)
	142-4407-006	.213 (5.41)
LMR-240	142-5435-001	.255 (6.48)
	142-5435-006	.255 (6.48)
LMR-200	142-5439-001	.213 (5.41)
	142-5439-006	.213 (5.41)
LMR-195	142-5407-001	.213 (5.41)
	142-5407-006	.213 (5.41)

1. Identify connector parts. (3 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid, foil or center conductor. Cut foil flush with dielectric, do not remove foil. Make sure that dielectric is clean and free from all particles. Tin center conductor, keeping solder amount to a minimum. Slide crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown. Position contact such that a gap of no more than .020 (0.51) is kept between dielectric and contact. Solder contact to center conductor through solder hole using .020 (0.51) Diameter solder. Use a minimum amount of solder for a good joint. Do not allow contact to move into dielectric during soldering process.
4. Flare braid and slide body assembly over contact, foil and dielectric, then under braid. Seat body assembly firmly onto contact. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using Johnson hand crimp tool 141-0000-913 and recommended crimp die hex.

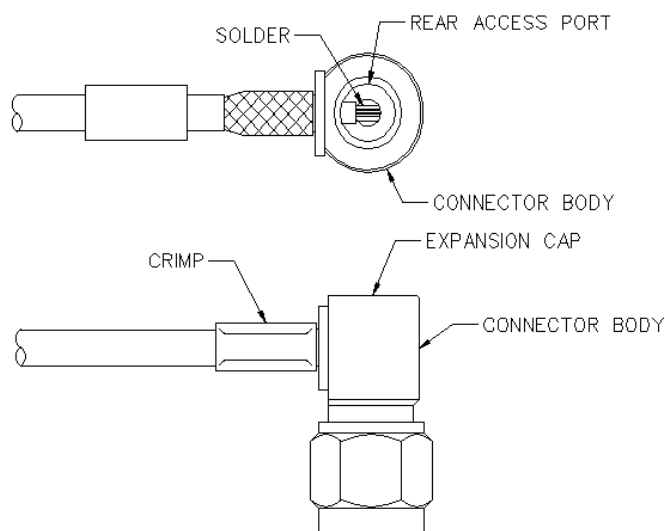
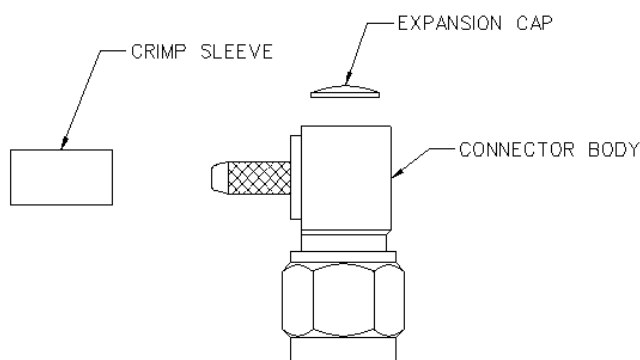
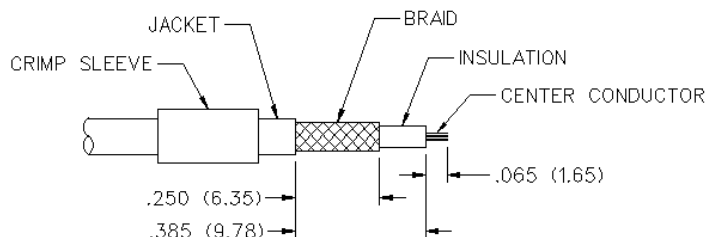
SMA Crimp Type Straight Plugs, Straight Jacks, and Straight Bulkhead Jacks for Flexible Cable

CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	142-0302-401	.105 (2.67)
	142-0302-406	.105 (2.67)
RG-316/U, 161, 174, 188	142-0303-401	.128 (3.25)
	142-0303-406	.128 (3.25)
RG-316 DS, 188 DS	142-0304-401	.151 (3.83)
	142-0304-406	.151 (3.83)
RG-58/U, 141, 303	142-0307-401	.213 (5.41)
	142-0307-406	.213 (5.41)
RG-55/U, 142, 223, 400	142-0308-401	.213 (5.41)
	142-0308-406	.213 (5.41)
RG-316/U, 161, 174, 188	142-0403-001	.128 (3.25)
	142-0403-006	.128 (3.25)



1. Identify connector parts. (6 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve, nut and heat shrink tubing (as applicable) onto cable as shown.
3. Flare braid and slide cable into crimp stem. Place rear insulator and center contact over center conductor and position as shown for different cable sizes. Solder center conductor to contact through the solder hole. Solder **must not** be allowed to gather and run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool. Slide center contact assembly into connector body. Thread coupling nut onto body and tighten to 10 in.-lb. torque. Slide heat shrink forward and shrink (as applicable).

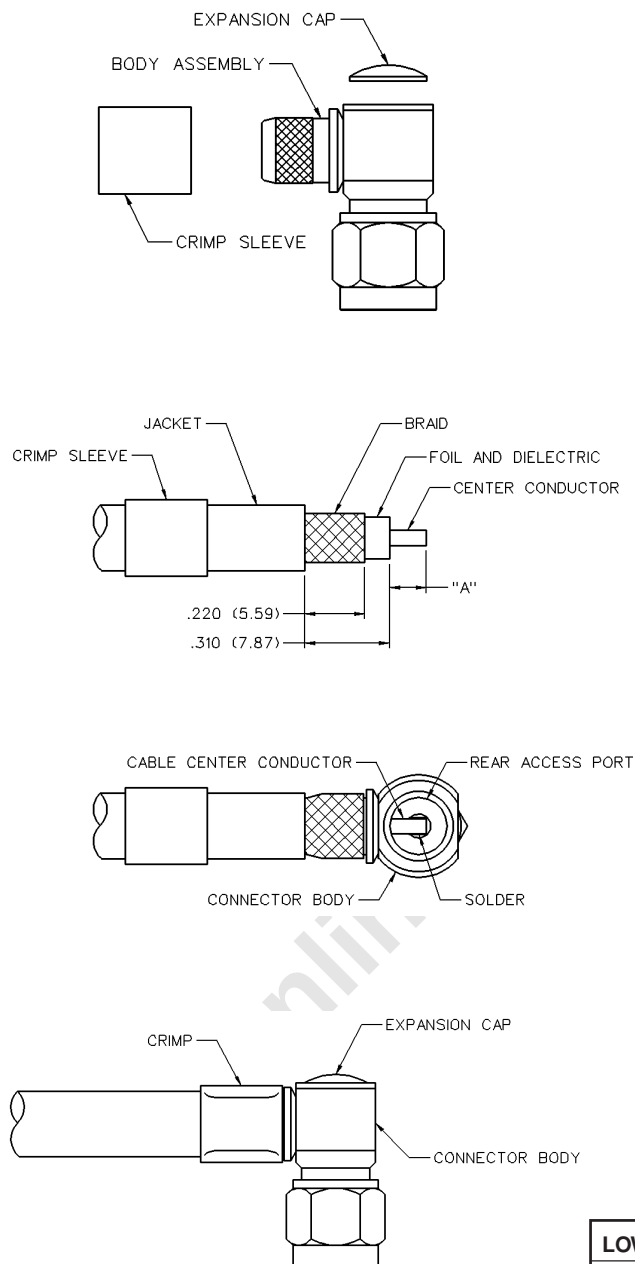
SMA Crimp Type Right Angle Plugs for Flexible Cable



CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	142-0402-101	.105 (2.67)
	142-0402-106	.105 (2.67)
RG-316/U, 161, 174, 188; LMR-100	142-0403-101	.128 (3.25)
	142-0403-106	.128 (3.25)
RG-316 DS, 188 DS	142-0404-101	.151 (3.83)
	142-0404-106	.151 (3.83)
RG-58/U, 141, 303	142-0407-101	.213 (5.41)
	142-0407-106	.213 (5.41)
RG-55/U, 142, 223, 400	142-0408-101	.213 (5.41)
	142-0408-106	.213 (5.41)
RG-179/U, 187	142-0433-101	.128 (3.25)
	142-0433-106	.128 (3.25)
RG-316/U, 161, 174, 188; LMR-100	142-4403-101	.128 (3.25)
	142-4403-106	.128 (3.25)
RG-316 DS, 188 DS	142-4404-101	.151 (3.83)
	142-4404-106	.151 (3.83)
RG-58/U, 141, 303	142-4407-101	.213 (5.41)
	142-4407-106	.213 (5.41)
RG-55/U, 142, 223, 400	142-4408-101	.213 (5.41)
	142-4408-106	.213 (5.41)
RG-316/U, 161, 174, 188; LMR-100	142-5403-101	.128 (3.25)
	142-5403-106	.128 (3.25)
RG-316 DS, 188 DS	142-5404-101	.151 (3.83)
	142-5404-106	.151 (3.83)
RG-58/U, 141, 303	142-5407-101	.213 (5.41)
	142-5407-106	.213 (5.41)
RG-55/U, 142, 223, 400	142-5408-101	.213 (5.41)
	142-5408-106	.213 (5.41)
RG-316/U, 188, 174	142-9403-101	.128 (3.25)
RG-316 DS, 188 DS	142-9404-101	.151 (3.83)
RG-58/U, 141	142-9407-101	.213 (5.41)

1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. When stripping LMR-100 low loss cable, remove foil back to where cable jacket is stripped. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable insulation bottoms on center contact. Solder center conductor to contact through the rear access port. Use a minimum amount of solder for a full fillet joint. **.020 (0.51) diameter solder is recommended.**
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool. Place expansion cap in access port and seat with .187 (4.75) diameter flat punch. Shrink heat shrink tubing over crimp sleeve if applicable.

Right Angle SMA Low Loss Diameter .195, .200 and .240



CABLE GROUP	PART NO.	CRIMP HEX
LMR-195	142-0407-101	.213 (5.41)
	142-0407-106	.213 (5.41)
LMR-200	142-4439-101	.213 (5.41)
	142-4439-106	.213 (5.41)
LMR-240	142-0435-101	.255 (6.48)
	142-0435-106	.255 (6.48)
LMR-195	142-5407-101	.213 (5.41)
	142-5407-106	.213 (5.41)
LMR-200	142-0439-101	.213 (5.41)
	142-0439-106	.213 (5.41)
LMR-240	142-5435-101	.255 (6.48)
	142-5435-106	.255 (6.48)
LMR-195	142-4407-101	.213 (5.41)
	142-4407-106	.213 (5.41)
LMR-200	142-5439-101	.213 (5.41)
	142-5439-106	.213 (5.41)
LMR-240	142-4435-101	.255 (6.48)
	142-4435-106	.255 (6.48)

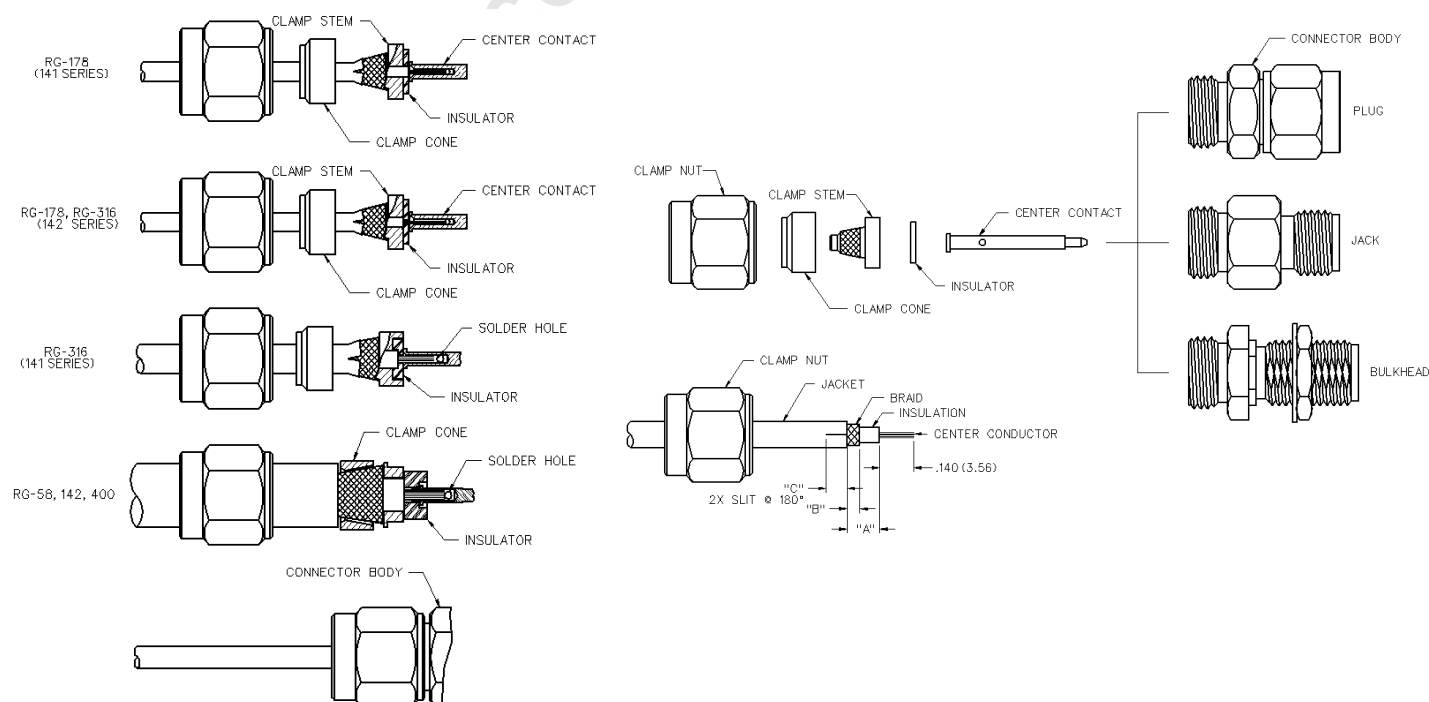
1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick braid, foil or center conductor. Cut foil flush with dielectric, do not remove foil. Make sure that dielectric is clean and free from all particles. Tin center conductor, keeping solder amount to a minimum. Slide crimp sleeve onto jacket of cable.
3. Flare braid and slide body assembly over foil and dielectric, then under braid. Make sure cable center conductor is contained within connector contact, but do not allow foil and dielectric to enter body access port. Solder center conductor to contact through the rear access port. Use a minimum amount of solder for a full fillet joint. .020 (0.51) Diameter solder is recommended.
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using Johnson hand crimp tool 141-0000-913 and recommended crimp die hex. Place expansion cap in access port and seat with recommended Diameter flat punch.

LOW LOSS DIA.	"A"	CRIMP DIE HEX	FLAT PUNCH DIA.
0.195	.110 (2.79)	.213 (5.41) hex	.187 (4.75)
0.200	.110 (2.79)	.213 (5.41) hex	.187 (4.75)
0.240	.135 (3.43)	.255 (6.48) hex	.242 (6.15)

SMA Clamp Type Straight Plugs, Straight Jacks, and Straight Bulkhead Jacks for Flexible Cable

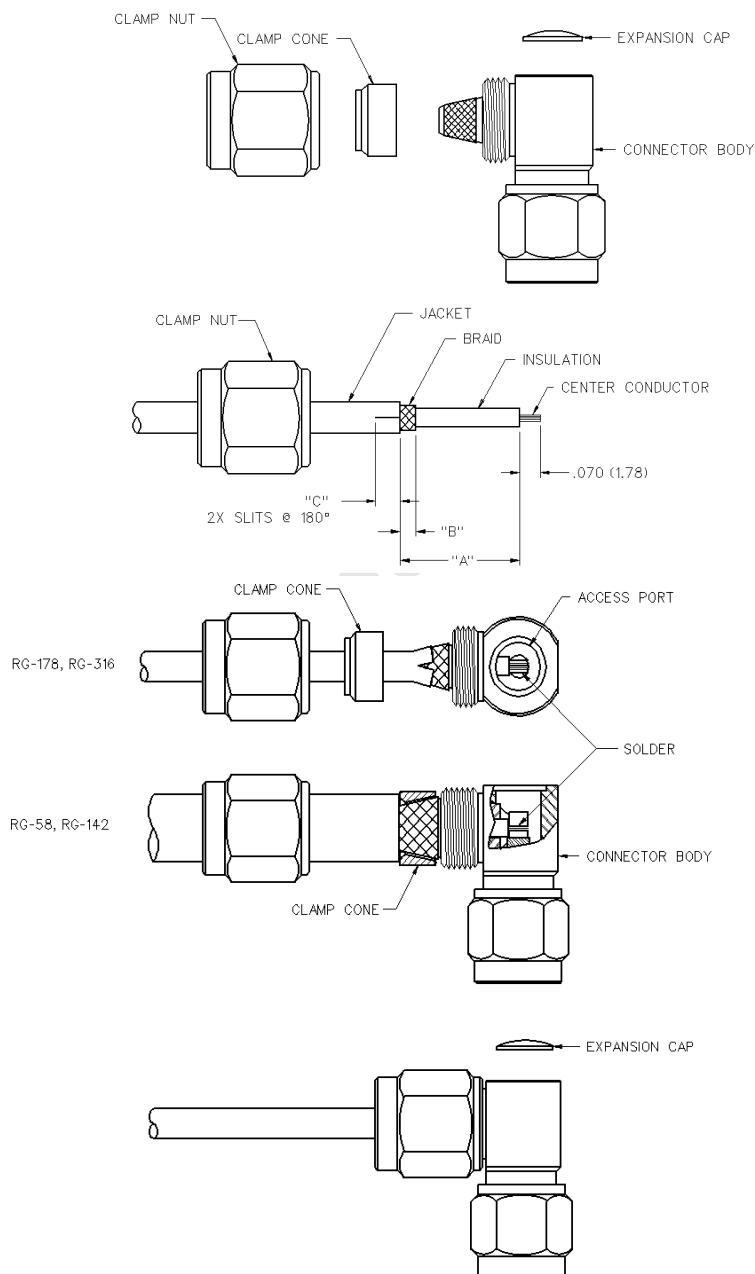
1. Identify connector parts. (6 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide clamp nut and clamp cone onto cable as shown. Clamp cone must be oriented as shown for each size of cable. The RG-58/142 clamp cone slides over braid and against jacket.
3. Flare braid and slide cable into clamp stem. Place rear insulator and center contact over center conductor and position as shown for different cable sizes. Solder center conductor to contact through the solder hole. Solder **must not** be allowed to gather and run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Arrange braid uniformly around clamp stem. Slide center contact assembly into body. Slide clamp nut against clamp cone and braid and tighten to 10 in.-lb. torque.

CABLE GROUP	PART NO.	"A"	"B"	"C"
RG-178/U, 196	142-0202-011/016	.133 (3.38)	.053 (1.35)	.085 (2.16)
RG-161/U, 174, 188, 316	142-0203-011/016	.133 (3.38)	.053 (1.35)	.085 (2.16)
RG-58/U, 141, 303	142-0207-011/016	.225 (5.72)	.145 (3.68)	NONE
RG-142, 223, 55, 400	142-0207-011/016	.285 (7.24)	.165 (4.19)	NONE
RG-178/U, 196	142-0102-401/406	.133 (3.38)	.053 (1.35)	.085 (2.16)
RG-161/U, 174, 188, 316	142-0103-401/406	.133 (3.38)	.053 (1.35)	.085 (2.16)
RG-58/U, 141, 303	142-0107-401/406	.225 (5.72)	.145 (3.68)	NONE
RG-142, 223, 55, 400	142-0107-401/406	.285 (7.24)	.165 (4.19)	NONE



SMA Clamp Type Right Angle Plugs for Flexible Cable

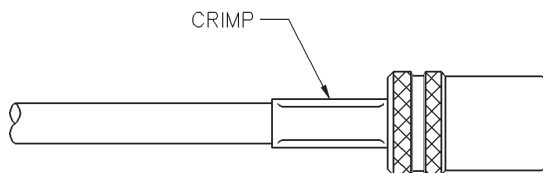
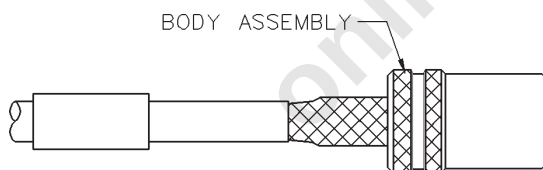
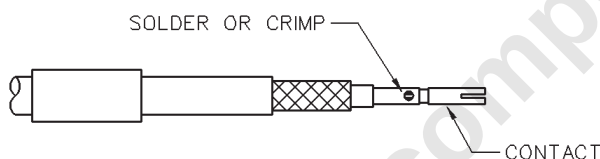
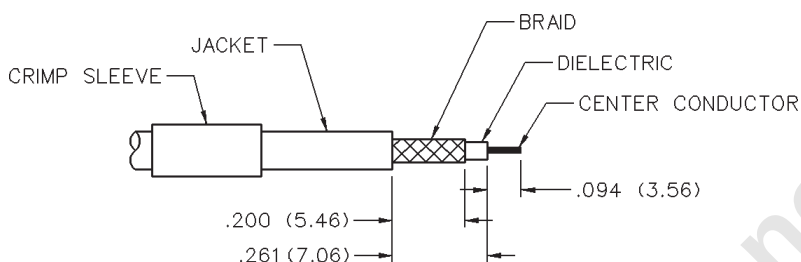
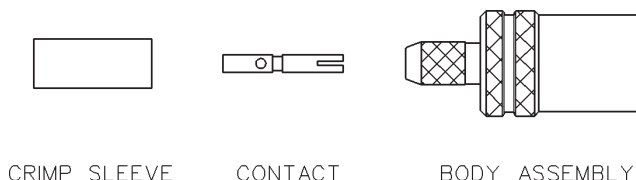
CABLE GROUP	PART NO.	"A"	"B"	"C"
RG-178/U, 196	142-0202-101	.280 (7.11)	.053 (1.35)	.085 (2.16)
	142-0202-106	.280 (7.11)	.053 (1.35)	.085 (2.16)
RG-316/U, 161, 174, 188	142-0203-101	.280 (7.11)	.053 (1.35)	.085 (2.16)
	142-0203-106	.280 (7.11)	.053 (1.35)	.085 (2.16)
RG-58/U, 141, 303	142-0207-101	.395 (10.03)	.160 (4.06)	None
	142-0207-106	.395 (10.03)	.160 (4.06)	None
RG-55/U, 142, 233, 400	142-0207-101	.420 (10.67)	.180 (4.57)	None
	142-0207-106	.420 (10.67)	.180 (4.57)	None



1. Identify connector parts. (4 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide clamp nut and clamp cone onto cable as shown. Clamp cone must be oriented as shown for each size of cable. The RG-58/142 clamp cone slides over braid and against jacket.
3. Flare braid and slide cable into body making certain that the cable insulation bottoms on center contact. Stepped down diameter of stem must slide under braid and jacket. Arrange braid uniformly around crimp stem. Slide clamp nut against clamp cone and braid and tighten to 10 in.-lb. torque.
4. Solder center conductor to contact through the rear access port. Use a minimum amount of solder for a full fillet joint. **.020 (0.51) diameter solder is recommended.** Place expansion cap in access port and seat with .187 (4.75) diameter flat punch.

SMB 3-Piece Straight Plugs

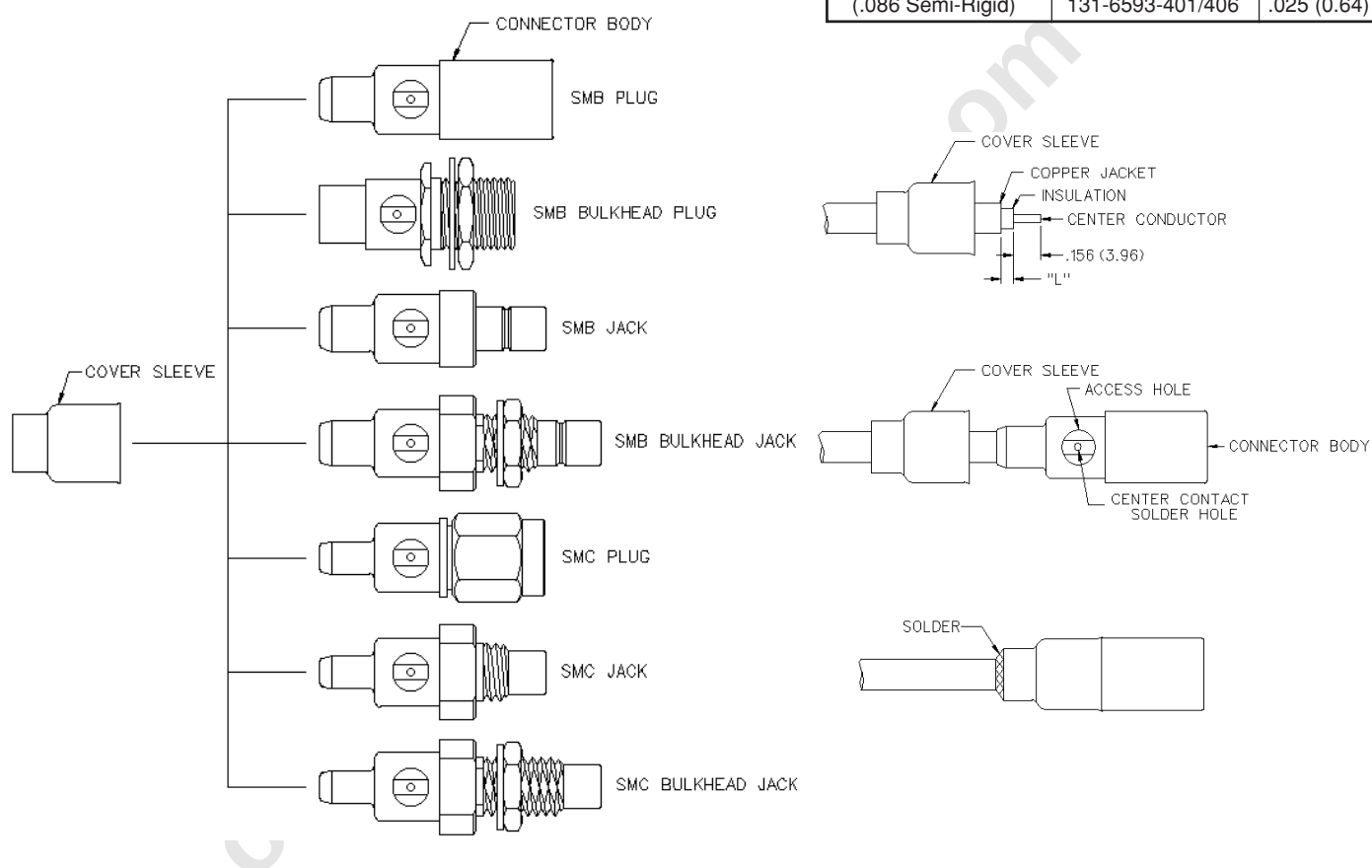
CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 161, 174, 179, 187, 188	131-3403-021/026	.128 (3.25)
RG-316 DS, 188 DS, 179 DS	131-3404-021/026	.151 (3.83)
RG-58/U, 141, 303	131-3407-011/016	.213 (5.41)
RG-179/U, 187	131-8433-001/006	.128 (3.25)
RG-179 DS, 187 DS	131-8434-001/006	.151 (3.83)
Belden 735A	131-8445-011/016	.178 (4.52)



1. Identify connector parts. (3 piece parts): Crimp sleeve, body assembly and contact
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown.
Solder Attachment: Solder contact to center conductor through solder hole using .015 (0.38) diameter solder. Use a minimum amount of solder for a good joint.
Crimp Attachment: A miniature 8 indent crimp tool 140-0000-970 is recommended. Crimp location should be centered between end of contact and X-hole using positioner 140-0000-971. Crimp attachment to solid center conductor cables is not recommended.
4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp tool. Slide heat shrink forward and shrink (as applicable).

SMB/SMC Solder Type Straight Plugs and Jacks for Semi-Rigid Cable

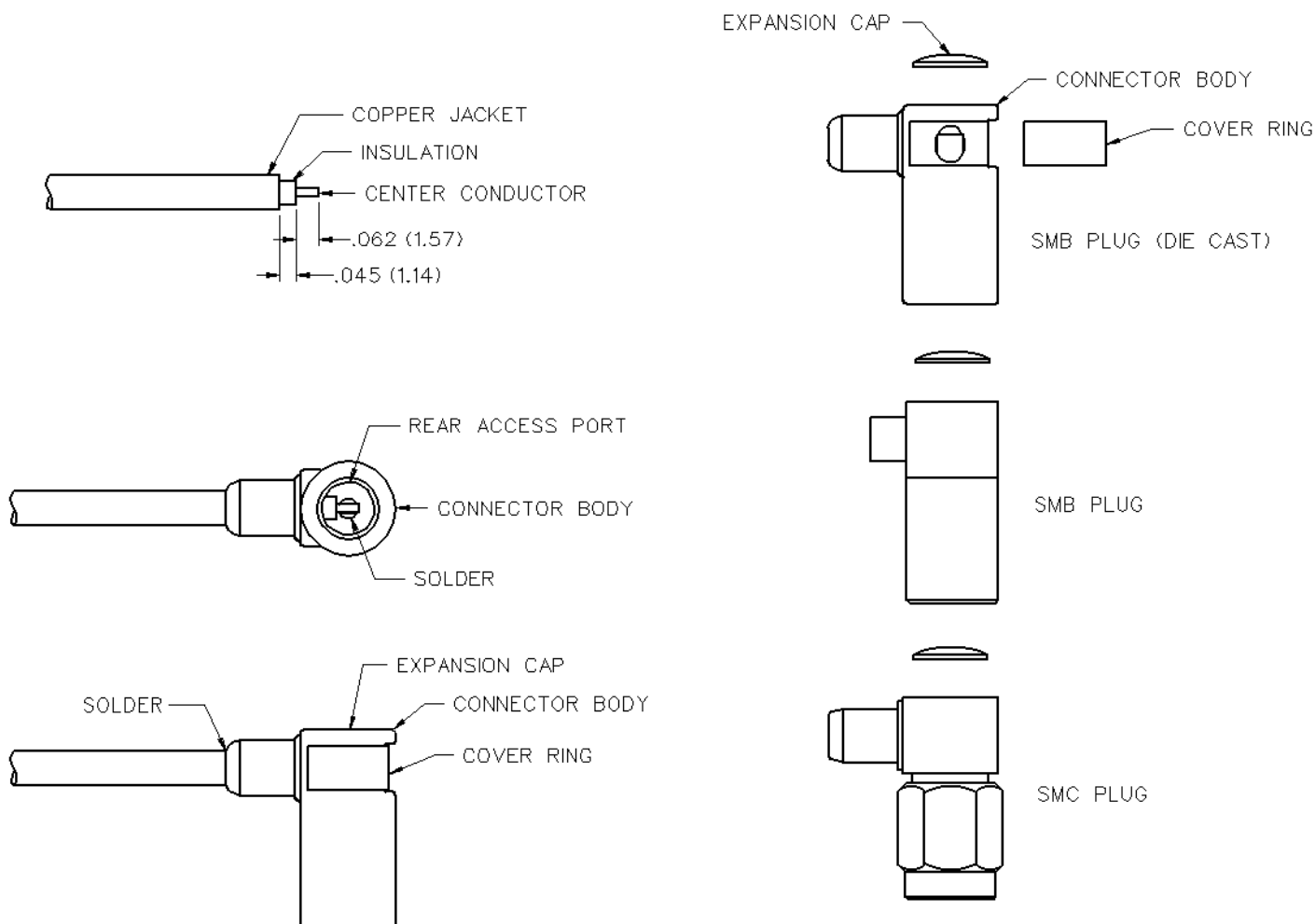
CABLE GROUP	PART NO.	"L"
RG-405/U (.086 Semi-Rigid)	131-3593-401/406	.025 (0.64)
	131-3693-001/016	.025 (0.64)
RG-402/U (.141 Semi-Rigid)	131-3694-401/406	.050 (1.27)
RG-405/U (.086 Semi-Rigid)	131-6593-401/406	.025 (0.64)



1. Identify connector parts. (2 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick center conductor. Slide cover sleeve onto cable as shown.
3. Insert cable into body making certain that the cable insulation bottoms on center contact. Solder center conductor to contact through the side access ports and hole in center contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Slide cover sleeve over access ports and solder body to cable and cover sleeve to body. Use a minimum amount of heat to minimize cable insulation movement.

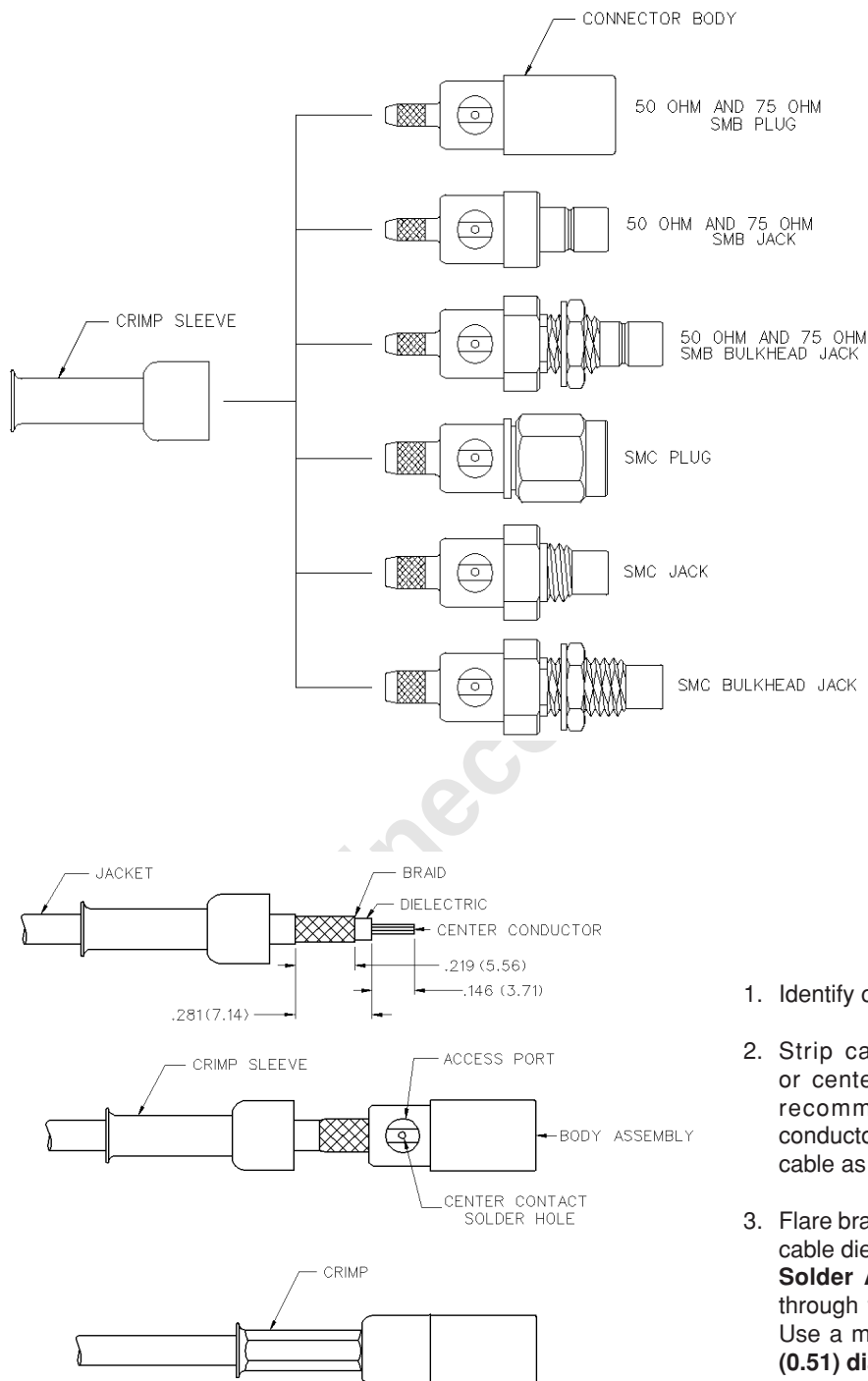
SMB/SMC Solder Type Right Angle Plugs for Semi-Rigid Cable

CABLE GROUP	PART NO.
RG-405/U (.086 Semi-Rigid)	131-1693-101
	131-1693-116
	131-3693-101
	131-3693-116



1. Identify connector parts. (2 piece parts - except diecast)
2. Strip cable to dimensions shown. Do not nick center conductor.
3. Insert cable into body making certain that the cable insulation bottoms on center contact. Solder center conductor to contact through the rear and side access ports. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Solder body to cable. Use a minimum amount of heat to minimize cable insulation movement. Place expansion cap in access port and set with .125 (3.17) diameter punch. Snap cover ring over side access port.

SMB/SMC/Mini-75 Ohm SMB (2-Piece) Crimp Type Straight Plugs, Jacks and Bulkhead Jacks for Flexible Cable



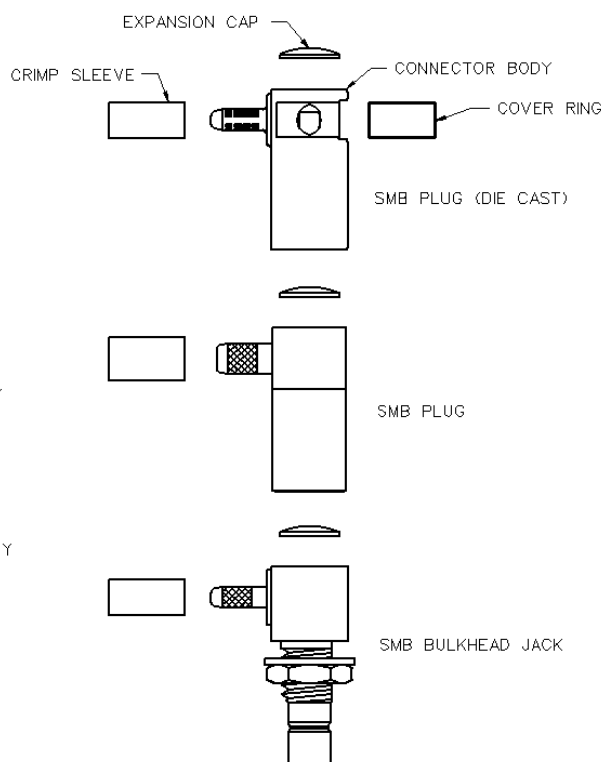
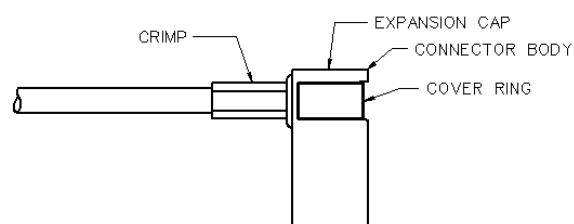
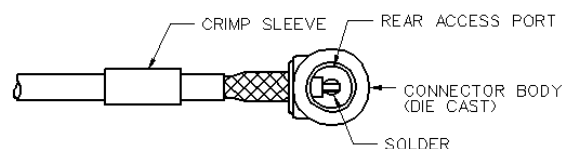
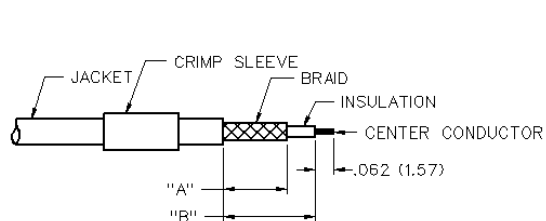
CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 161, 174, 179, 187, 188	131-1403-001/016	.128 (3.25)
RG-316 DS, 188 DS, 179 DS	131-1404-001/016	.151 (3.83)
RG-178/U, 196	131-3302-001/006	.105 (2.67)
RG-316/U, 161, 174, 179, 187, 188	131-3303-001/006	.128 (3.25)
	131-3303-401/406	.128 (3.25)
RG-179 DS, 187 DS, 188 DS, 316 DS	131-3304-401/406	.151 (3.83)
RG-178/U, 196	131-3402-001/016	.105 (2.67)
RG-316/U, 161, 174, 179, 187, 188	131-3403-001/016	.128 (3.25)
	131-3403-401/406	.128 (3.25)
RG-179 DS, 187 DS, 188 DS, 316 DS	131-3404-001/016	.128 (3.25)
	131-3404-001/016	.151 (3.83)
RG-58/U, 141, 303	131-3407-001/006	.213 (5.41)
RG-316/U, 161, 174, 188	131-6303-401/406	.128 (3.25)
RG-316 DS, 188 DS	131-6304-401/406	.151 (3.83)
RG-179/U, 187	131-6333-401/406	.128 (3.25)
RG-316/U, 161, 174, 188	131-6403-001/006	.128 (3.25)
RG-316 DS, 188 DS	131-6404-001/006	.151 (3.83)
RG-179/U, 187	131-6433-001/006	.128 (3.25)
RG-179/U, 187, 316, 161, 174, 188	131-8303-401/406	.128 (3.25)
RG-179 DS, 187 DS, 188DS, 316DS	131-8304-401/406	.151 (3.83)
RG-179/U, 187, 316, 161, 174, 188	131-8403-001/006	.128 (3.25)
	131-8403-011/016	.128 (3.25)
RG-179 DS, 187 DS, 188 DS, 316 DS	131-8404-001/006	.151 (3.83)
	131-8404-011/016	.151 (3.83)
RG-59	131-8409-001/006	.255 (6.48)
BELDEN 735A	131-8445-001/006	.178 (4.52)
RG-316/U, 188, 174, 179, 187	131-9403-001	.128 (3.25)
RG-316 DS, 188 DS, 179 DS, 187 DS	131-9404-001	.151 (3.83)

1. Identify connector parts. (2 piece parts—except bulkhead)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin. Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable dielectric bottoms against center contact.
Solder Attachment: Solder center conductor to contact through the side access ports and hole in center contact. Use a minimum amount of solder for a full fillet joint. **.020 (0.51) diameter solder is recommended.**
Crimp Attachment: Crimp applicable 50 Ohm connector contacts with 141-0000-911 dieset in 144-0000-900 tool frame. Crimp 75 Ohm connector contacts with 141-0000-924 dieset in 144-0000-900 tool frame. Crimp attachment to solid center conductor cables is not recommended.

SMB/SMC/Mini-75 Ohm SMB Crimp Type Right Angle Plugs and Right Angle Bulkhead Jacks for Flexible Cable

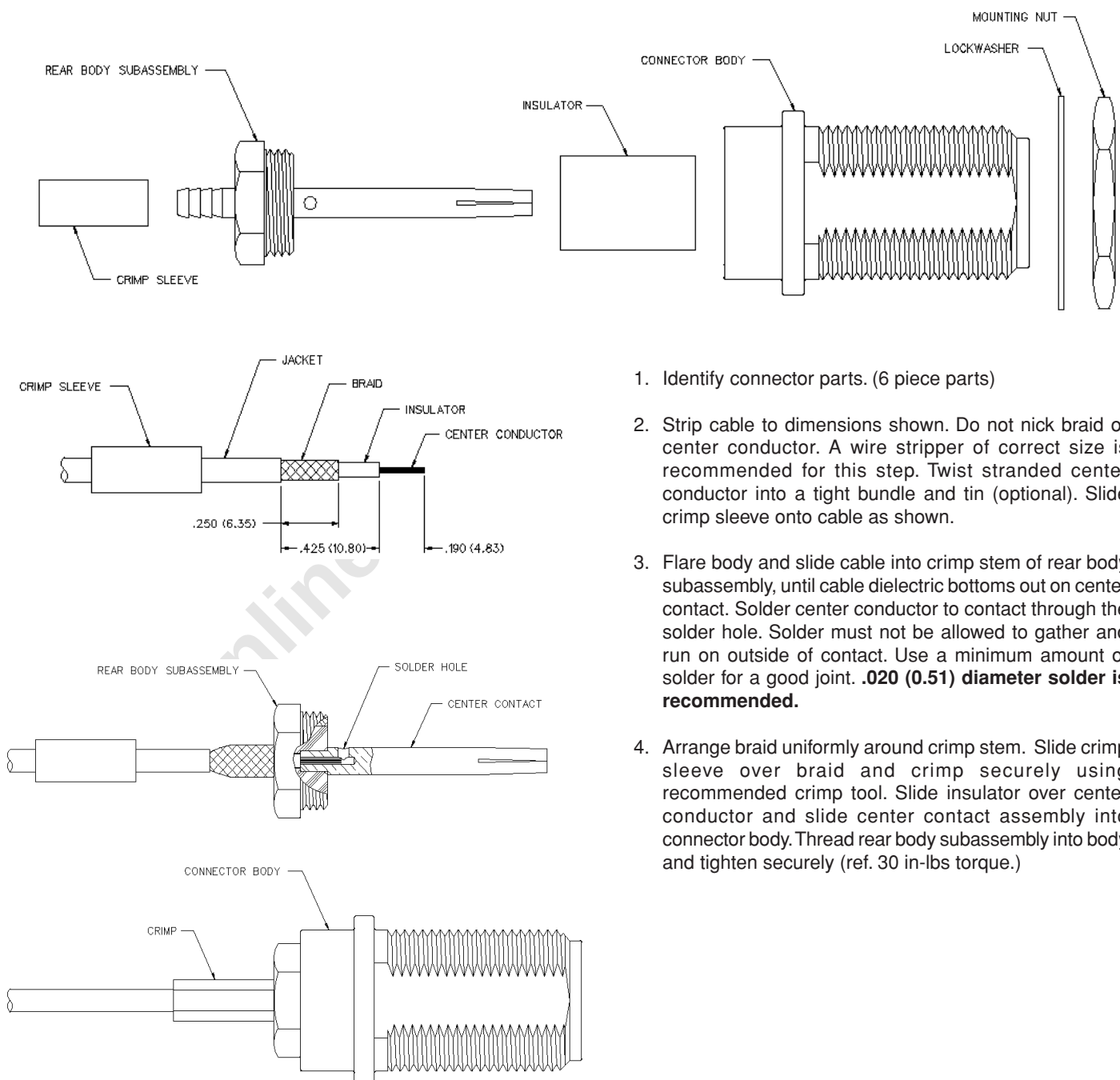
1. Identify connector parts. (4 piece parts: crimp sleeve, body assembly, expansion cap and covering ring. Die cast body only.)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin (optional). Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body assembly making certain that the cable insulation bottoms on center contact. Arrange braid uniformly around crimp stem of body assembly. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.
4. Solder center conductor to contact through the rear and side access ports. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.** Place expansion cap in access port and seat with a .125 (3.17) diameter flat punch. Snap cover ring over side access port if applicable.

CABLE GROUP	PART NO.	"A"	"B"	CRIMP HEX
RG-178/U, 196	131-1402-101/116	.219 (5.56)	.312 (7.92)	.105 (2.67)
RG-316/U, 161, 174, 179, 187, 188	131-1403-101/116	.219 (5.56)	.312 (7.92)	.128 (3.25)
RG-179 DS, 187 DS, 188DS, 316 DS	131-1404-101/116	.219 (5.56)	.312 (7.92)	.151 (3.83)
RG-316/U, 161, 174, 179, 187, 188	131-3303-501/506	.219 (5.56)	.312 (7.92)	.128 (3.25)
RG-179 DS, 187 DS, 188 DS, 316 DS	131-3304-501/506	.219 (5.56)	.312 (7.92)	.151 (3.83)
RG-178/U, 196	131-3402-101/116	.177 (4.50)	.289 (7.34)	.105 (2.67)
RG-316/U, 161, 174, 179, 187, 188	131-3403-101/116	.177 (4.50)	.289 (7.34)	.128 (3.25)
RG-179 DS, 187 DS, 188 DS, 316 DS	131-3404-101/116	.177 (4.50)	.289 (7.34)	.151 (3.83)
RG-58/U, 141, 303	131-3407-101/106	.219 (5.56)	.289 (7.34)	.213 (5.41)
RG-316/U, 161, 174, 188 DS, 316 DS, 188 DS	131-6403-101/106	.219 (5.56)	.312 (7.92)	.128 (3.25)
	131-6404-101/106	.219 (5.56)	.312 (7.92)	.151 (3.83)
RG-179/U, 187	131-6433-101/106	.219 (5.56)	.312 (7.92)	.151 (3.83)
RG-179/U, 187, 316, 161, 174, 188	131-8403-101/106	.177 (4.50)	.289 (7.34)	.128 (3.25)
	131-8403-111/116	.219 (5.56)	.312 (7.92)	.128 (3.25)
RG-179 DS, 187 DS, 316 DS, 188 DS	131-8404-101/106	.177 (4.50)	.289 (7.34)	.151 (3.83)
	131-8404-111/116	.219 (5.56)	.312 (7.92)	.151 (3.83)
RG-59	131-8409-101/106	.219 (5.56)	.289 (7.34)	.255 (6.48)
BELDEN 735A	131-8445-101/106	.177 (4.50)	.289 (7.34)	.178 (4.52)
RG-316/U, 188, 174, 179, 187	131-9403-101/116	.177 (4.50)	.289 (7.34)	.128 (3.25)
RG-316 DS, 188 DS, 179 DS, 187 DS	131-9404-101/116	.177 (4.50)	.289 (7.34)	.151 (3.83)



N Crimp Type Bulkhead Jack for Flexible Cable

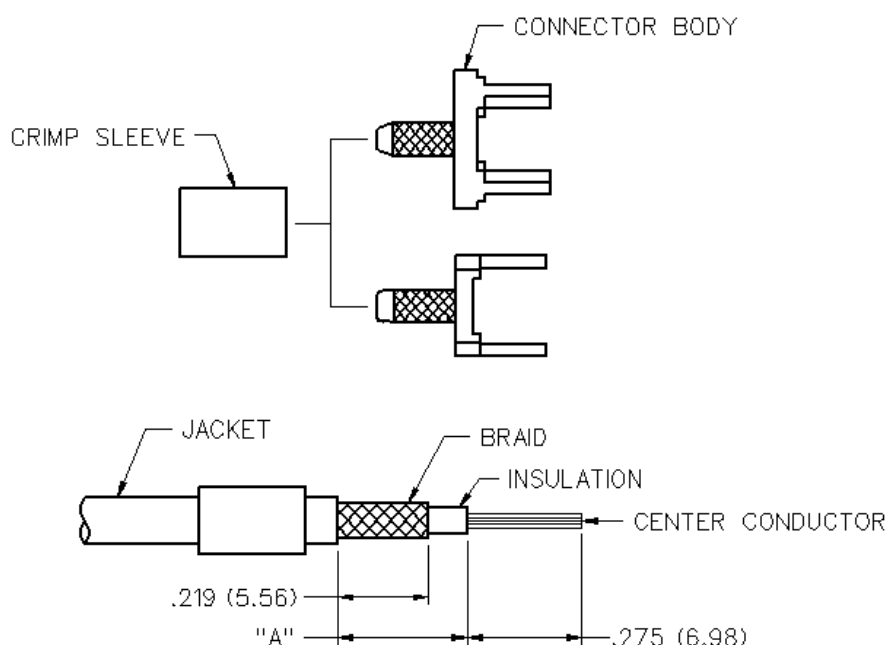
CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 161, 174, 188	134-0303-406	.160 (4.06)
RG-316 DS, 188 DS	134-0304-406	.160 (4.06)
RG-58/U, 141, 303	134-0307-406	.213 (5.41)
RG-55/U, 142, 223, 400	134-0308-406	.213 (5.41)



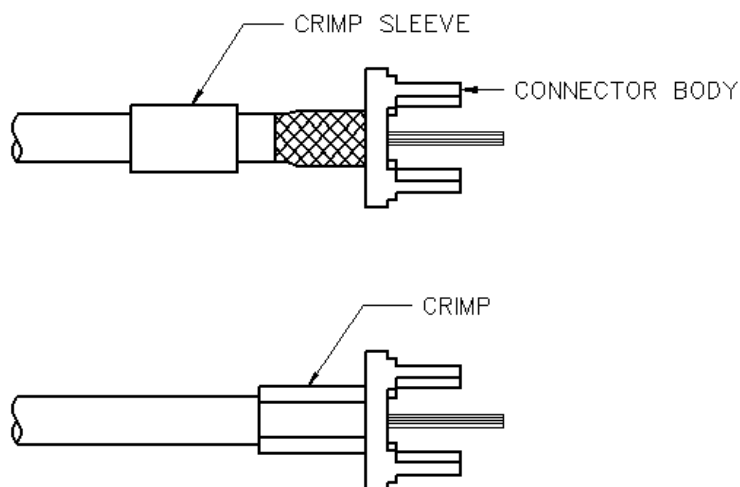
1. Identify connector parts. (6 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into a tight bundle and tin (optional). Slide crimp sleeve onto cable as shown.
3. Flare body and slide cable into crimp stem of rear body subassembly, until cable dielectric bottoms out on center contact. Solder center conductor to contact through the solder hole. Solder must not be allowed to gather and run on outside of contact. Use a minimum amount of solder for a good joint. **.020 (0.51) diameter solder is recommended.**
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool. Slide insulator over center conductor and slide center contact assembly into connector body. Thread rear body subassembly into body and tighten securely (ref. 30 in-lbs torque.)

Crimp Type Straight Cable Termination for Flexible Cable

CABLE GROUP	PART NO.	"A"	CRIMP HEX
RG-178/U, 196	142-0002-221/226	.259 (6.58)	.105 (2.67)
RG-316/U, 161, 174 179, 187, 188	142-0003-201/206	.312 (7.92)	.128 (3.25)
	142-0003-231/236	.259 (6.58)	.128 (3.25)
	142-0003-241/246	.259 (6.58)	.128 (3.25)
RG-316 DS, 188 DS	142-0004-201/206	.312 (7.92)	.151 (3.83)
	142-0004-211/216	.259 (6.58)	.151 (3.83)
	142-0004-221/226	.259 (6.58)	.151 (3.83)

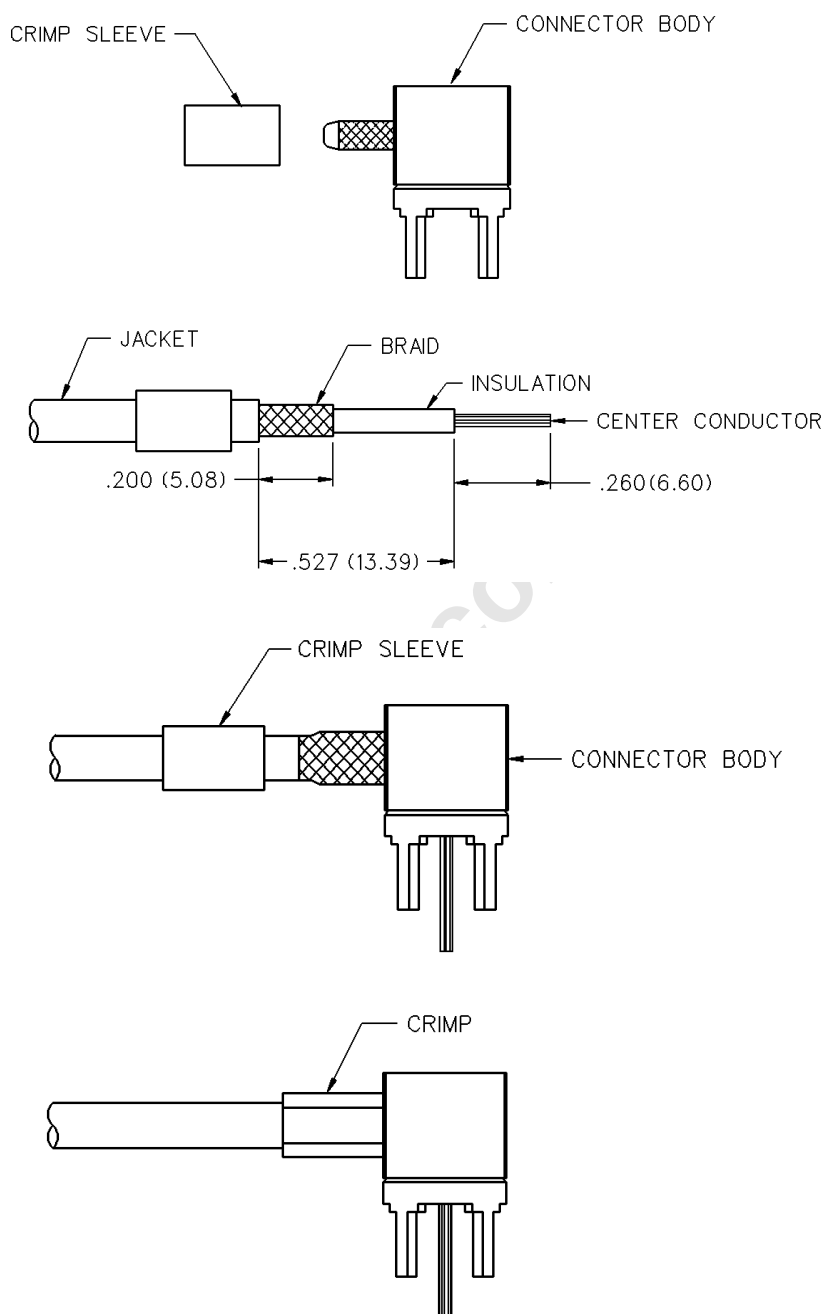


1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin. Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable insulation is flush with bottom of connector.
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.



Crimp Type Right Angle Cable Termination for Flexible Cable

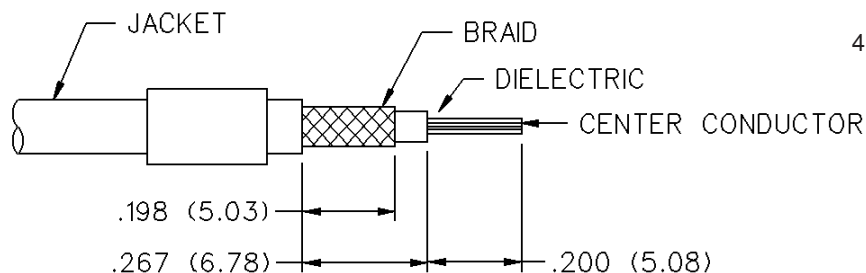
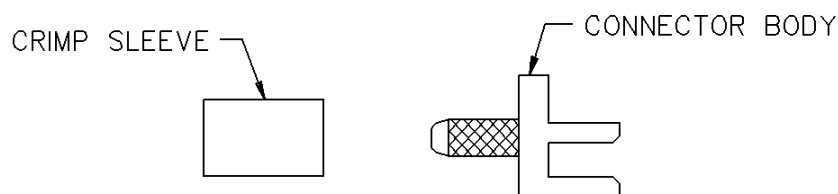
CABLE GROUP	PART NO.	CRIMP HEX
RG-316/U, 161, 174 179, 187, 188	142-0003-301/306	.128 (3.25)
RG-316 DS, 188 DS	142-0004-301/306	.151 (3.83)



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin. Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable insulation is flush with bottom of connector body.
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

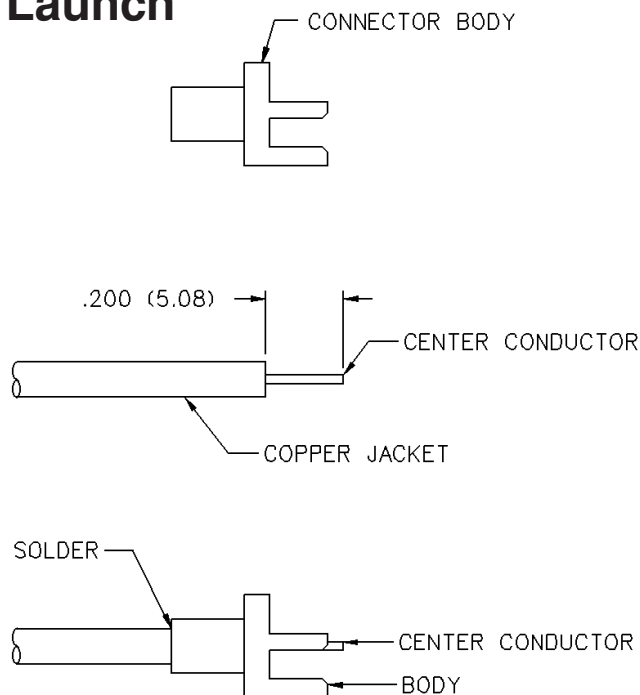
Crimp Type Straight Cable Termination for End Launch

CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	142-0002-811	.105 (2.67)
RG-316/U, 161, 174	142-0003-801	.128 (3.25)
179, 187, 188	142-0003-811	.128 (3.25)
RG-316 DS, 188 DS,	142-0004-801	.151 (3.84)
179 DS, 187 DS	142-0004-811	.151 (3.84)
RG-58/U,	142-0007-801	.213 (5.41)
141, 303	142-0007-811	.213 (5.41)
RG-142/U, 55,	142-0008-801	.213 (5.41)
223, 400	142-0008-811	.213 (5.41)



1. Identify connector parts. (2 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tin. Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable insulation is flush with bottom of connector body.
4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

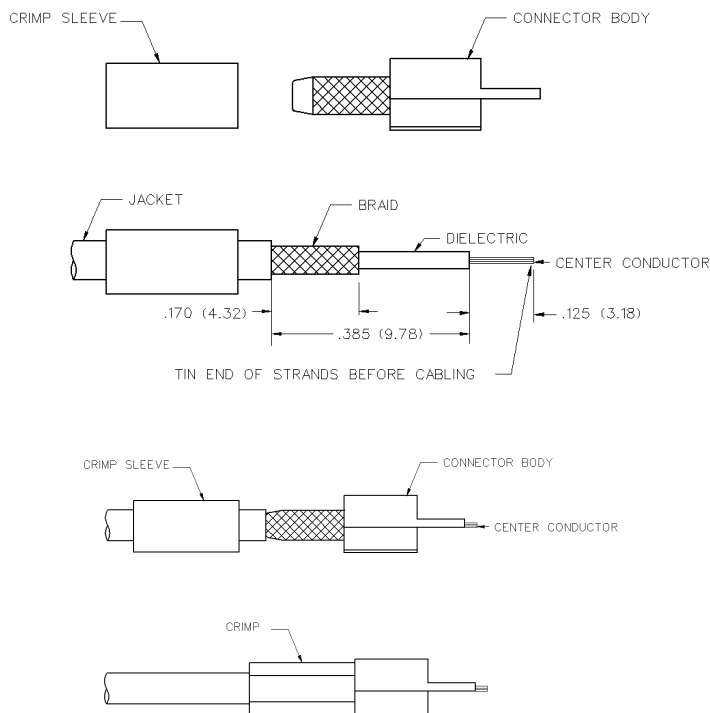
Solder Type Straight Cable Termination for End Launch



CABLE GROUP	PART NO.
RG-405/U (.086 Semi-Rigid)	142-0093-801/806
RG-402/U (.141 Semi-Rigid)	142-0094-801/806
.250 Semi-Rigid	142-0096-801/806

1. Identify connector parts. (1 piece part)
2. Strip cable to dimensions shown. Do not nick braid or center conductor.
3. Insert cable into body making sure cable is bottomed against shoulder body. Solder body to cable. Use a minimum amount of heat to minimize cable dielectric movement.

Solder Type Straight Cable Termination for End Launch Surface Mount



CABLE GROUP	PART NO.	CRIMP HEX
RG-178/U, 196	142-0002-821	.105 (2.67)

1. Identify connector parts (2-piece parts).
2. Strip cable to dimensions shown. Do not nick braid or center conductor. A wire stripper of correct size is recommended for this step. Twist stranded center conductor into tight bundle and tine. Slide crimp sleeve onto cable as shown.
3. Flare braid and slide cable into body making certain that the cable dielectric is flush with the end of the connector body.
4. Arrange braid uniformly around crimp sleeve. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

BNC Straight 3-Piece Crimp Type Plugs for Flexible Cable

PART NO.	CABLE	STRIP DIMENSIONS			CRIMP SLEEVE HEX	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
		"A"	"B"	"C"			
CPMC-78-2	RG-59	.315 (8.00)	.248 (6.30)	.157 (4.00)	.255 (6.48)	.065 (1.65)	24-9959P
CPMC-78-5	BELDEN RG-6	.315 (8.00)	.248 (6.30)	.118 (3.00)	.288 (7.32)	.065 (1.65)	24-302P/24-318P
CPMC-78-10	RG-59 PLENUM	.315 (8.00)	.248 (6.30)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-78-18	BELDEN 8218, 1855A	.315 (8.00)	.248 (6.30)	.157 (4.00)	.184 (4.67)	.066 (1.68)	24-9912P
CPMC-88-1	RG-58	.315 (8.00)	.098 (2.50)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-88-2	RG-59	.315 (8.00)	.118 (3.00)	.157 (4.00)	.258 (6.55)	.065 (1.65)	24-8859P
CPMC-88-3	BELDEN 8281	.315 (8.00)	.118 (3.00)	.157 (4.00)	.310 (7.87)	.065 (1.65)	24-318P
CPMC-88-5	RG-6	.315 (8.00)	.118 (3.00)	.157 (4.00)	.275 (6.98)	.065 (1.65)	24-8856P
CPMC-88-10	RG-59 PLENUM	.315 (8.00)	.118 (3.00)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-88-11	RG-58 PLENUM	.344 (8.75)	.147 (3.75)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-88-13	RG-55, 142	.315 (8.00)	.118 (3.00)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-88-14	RG-180, 34M, 195	.315 (8.00)	.118 (3.00)	.157 (4.00)	.184 (4.67)	.066 (1.68)	24-9912P
CPMC-88-17	RG-8X (MINI 8)	.315 (8.00)	.118 (3.00)	.157 (4.00)	.255 (6.48)	.065 (1.65)	24-9959P
CPMC-88-18	BELDEN 8218	.315 (8.00)	.118 (3.00)	.157 (4.00)	.184 (4.67)	.066 (1.68)	24-9912P
CPMC-88-19	RG-174, 188, 316	.344 (8.75)	.118 (3.00)	.157 (4.00)	.184 (4.67)	.066 (1.68)	24-9912P
CPMC-88-26	RG-11	.300 (7.62)	.240 (6.10)	.365 (9.27)	.405 (10.29)	.080 (2.03)	24-310/24-313

1. Identify connector parts. (3 piece parts)

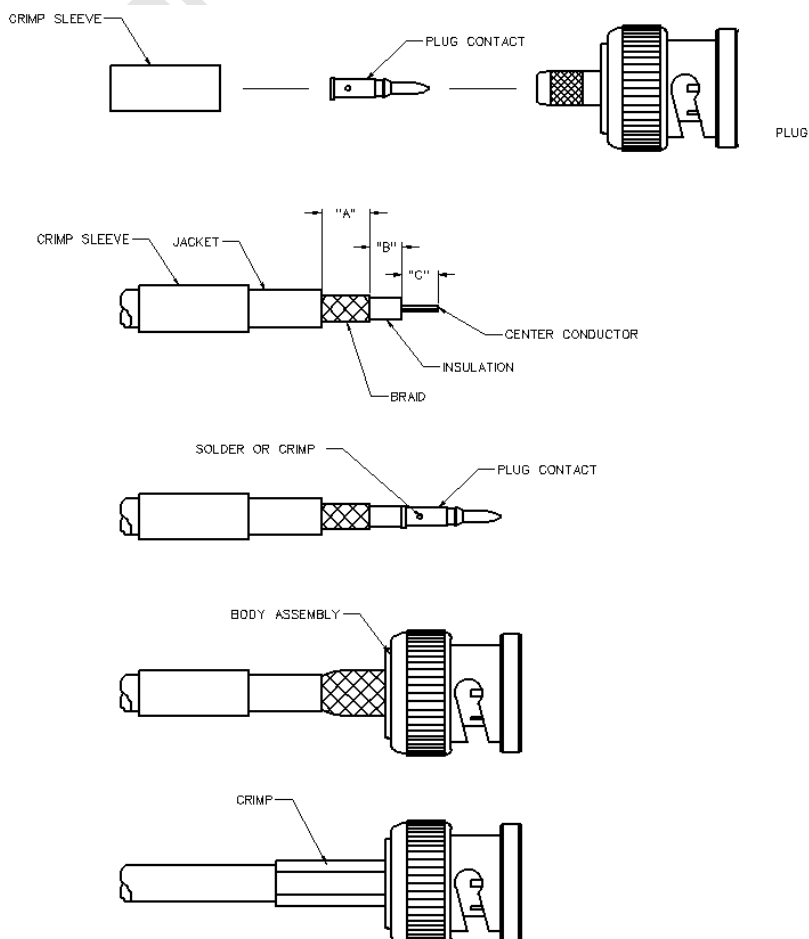
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.

3. Assemble contact onto cable as shown.

Solder Attachment: Solder contact to center conductor through hole using a minimum amount of solder for a good joint.

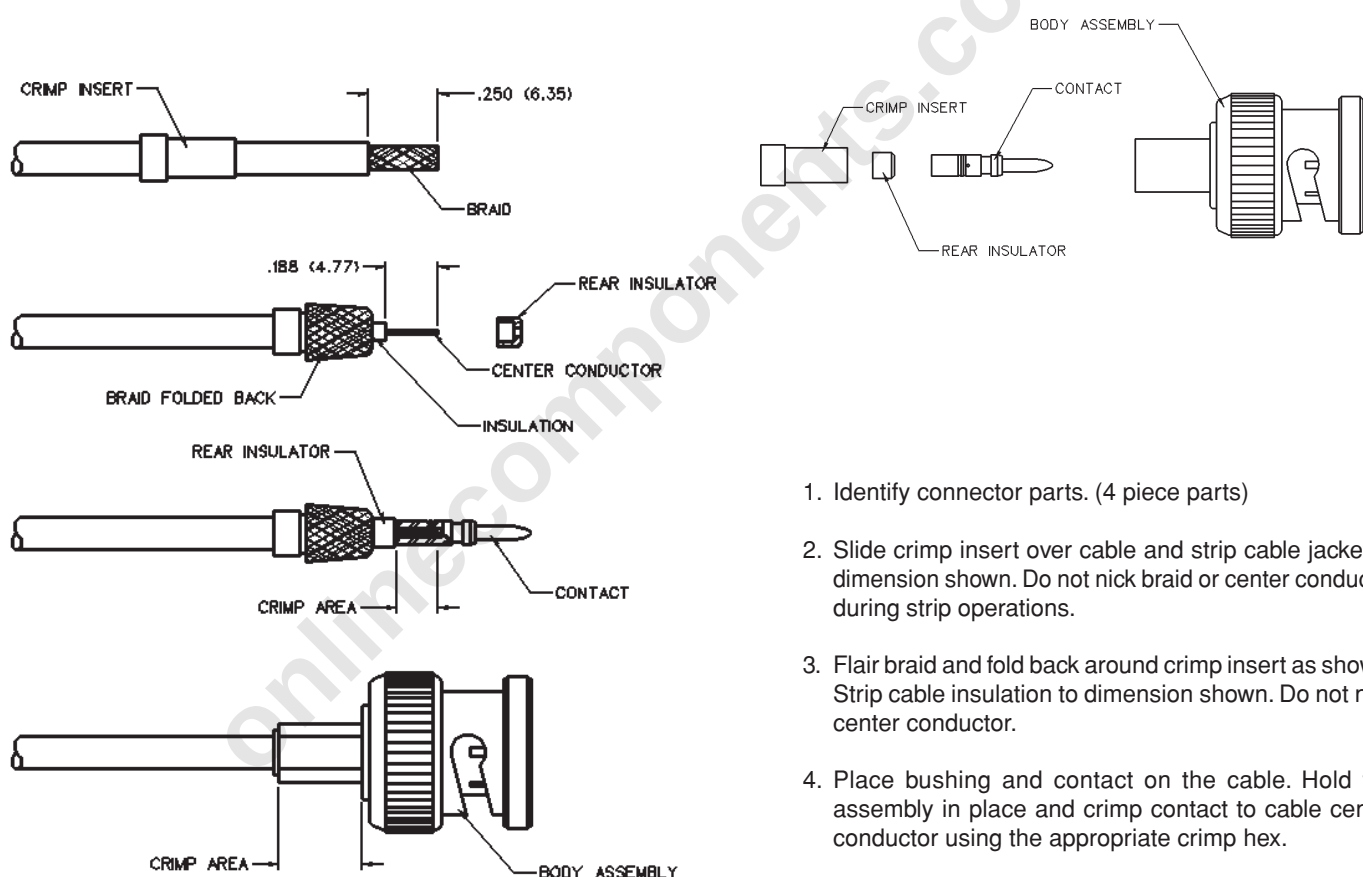
Crimp Attachment (where applicable): Crimp contact to center conductor using recommended crimp hex.

4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp hex. Slide heat shrink forward and shrink (as applicable).



BNC, TNC Straight Crimp Type Plugs with Crimp Insert for Flexible Cable

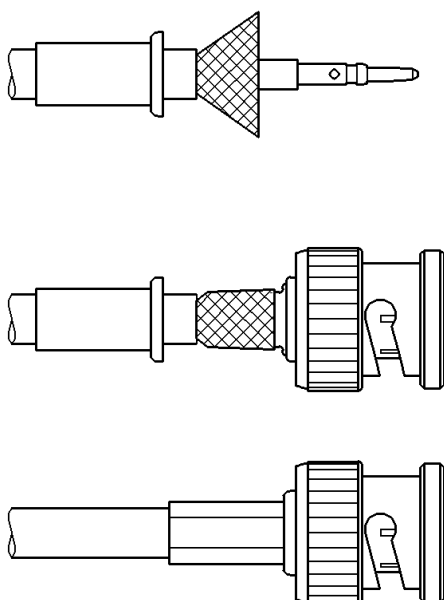
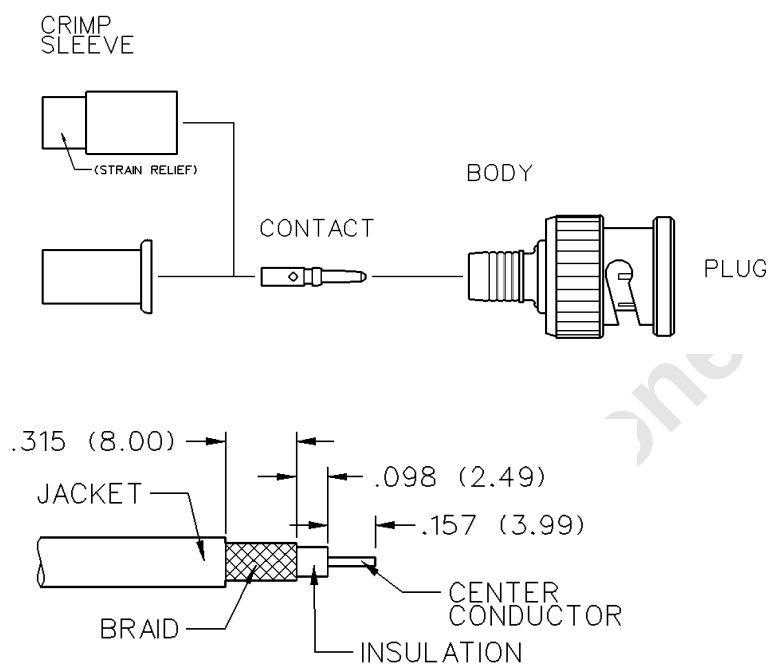
PART NO.	BODY CABLE	CONTACT STEM HEX	CRIMP HEX	RECOMMENDED CRIMP TOOL
CPM-88-19	RG-174, 188, 316	0.184 (4.67)	.066 (1.68)	24-9912P
CPM-88-19A/S	RG-174, 316	0.184 (4.67)	.066 (1.68)	24-9912P
CPM-88-20	RG-179, 187	0.184 (4.67)	.066 (1.68)	24-9912P
CPM-TNC-19	RG-174, 188, 316	0.184 (4.67)	.066 (1.68)	24-9912P
CPM-TNC-20	RG-179, 187	0.184 (4.67)	.066 (1.68)	24-9912P



1. Identify connector parts. (4 piece parts)
2. Slide crimp insert over cable and strip cable jacket to dimension shown. Do not nick braid or center conductor during strip operations.
3. Flair braid and fold back around crimp insert as shown. Strip cable insulation to dimension shown. Do not nick center conductor.
4. Place bushing and contact on the cable. Hold the assembly in place and crimp contact to cable center conductor using the appropriate crimp hex.
5. Slide body assembly over contact and other connector parts until a slight snap is felt, indicating the contact is in place. Crimp the body assembly in the location shown using the appropriate crimp hex.

BNC Straight Crimp Type Plugs for Flexible Cable

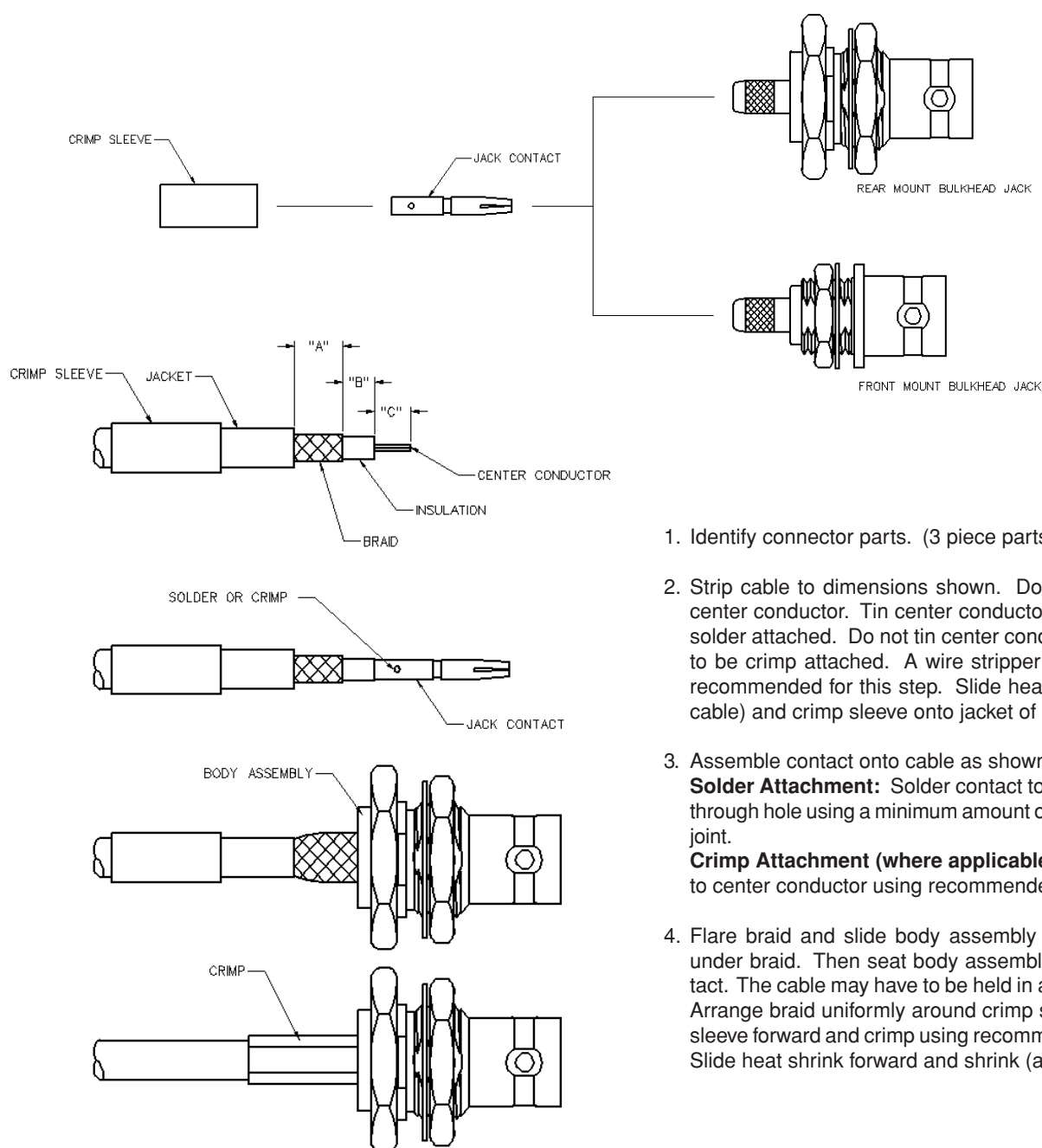
PART NO.	CABLE	CRIMP SLEEVE HEX	STRAIN RELIEF CRIMP HEX	RECOMMENDED CRIMP TOOL
CPMC-88-21	RG-58, RG-59 PLENUM	.235 (5.97), .250 (6.35)	.210 (5.33)	24-8857P/24-9859P



1. Identify connector parts. (3 piece parts)
2. Trim the cable to the dimensions shown. Take care not to nick the center conductor or the braid.
3. Slide the crimp sleeve onto the cable, narrow end first. Solder the contact to the center conductor using the minimum amount necessary for a good joint, make sure that the contact is flush with the insulation of the cable. Flare the braid.
4. Slide the body over the contact and under the braid. Then seat the body firmly onto the contact.
5. Arrange the braid uniformly around the crimp stem of the body. Slide the crimp sleeve forward and crimp using the recommended crimp hex.

BNC Straight Crimp Type Bulkhead Jacks for Flexible Cable

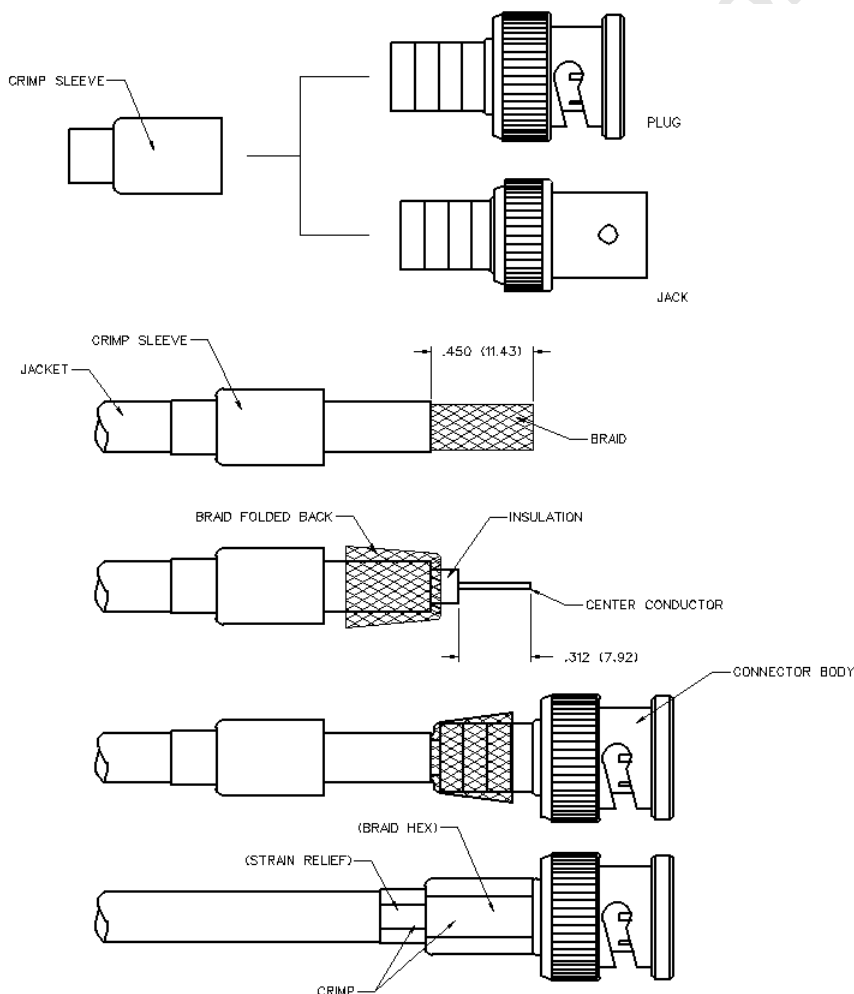
PART NO.	CABLE	STRIP DIMENSIONS			CRIMP SLEEVE HEX	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
		"A"	"B"	"C"			
CP-79-20BM1	RG-179	.315 (8.00)	.197 (5.00)	.138 (3.50)	.184 (4.67)	.066 (1.69)	24-9912P
CP-79-20BM2	RG-179	.315 (8.00)	.157 (4.00)	.118 (3.00)	.184 (4.67)	.066 (1.69)	24-9912P
CP-89-19BM1	RG-174, 316	.315 (8.00)	.197 (5.00)	.138 (3.50)	.184 (4.67)	.066 (1.69)	24-9912P
CP-89-27BM2	RG-178, 196	.226 (5.75)	.106 (2.70)	.118 (3.00)	.128 (3.25)	None (solder Only)	94-9963P



1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown.
Solder Attachment: Solder contact to center conductor through hole using a minimum amount of solder for a good joint.
Crimp Attachment (where applicable): Crimp contact to center conductor using recommended crimp hex.
4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp hex. Slide heat shrink forward and shrink (as applicable).

BNC Straight 2-Piece Crimp Type Plugs and Jacks for Flexible Cable

PART NO.	CABLE	CRIMP (BRAID HEX)	CRIMP (STRAIN RELIEF)	RECOMMENDED CRIMP TOOL
CP-78-2	RG-59, 62	.320 (8.13)	.250 (6.35)	24-9859P
CP-78-5	RG-6	.320 (8.13)	.275 (6.99)	24-321P/24-8856P
CP-78-10	RG-59 PLENUM, RG-62	.320 (8.13)	.211 (5.36)	24-9858P
CP-88-1	RG-58	.320 (8.13)	.211 (5.36)	24-9858P
CP-88-2	RG-59, 62	.320 (8.13)	.250 (6.35)	24-9859P
CP-88-3	BELDEN 8281	.350 (8.89)	.288 (7.32)	24-302P
CP-88-4	RG-MATV-59	.320 (8.13)	.250 (6.35)	24-9859P
CP-88-5	RG-6	.320 (8.13)	.275 (6.90)	24-321P/24-8856P
CP-88-10	RG-59 PLENUM, 62	.320 (8.13)	.211 (5.36)	24-9858P
CP-89-1	RG-58	.320 (8.13)	.211 (5.36)	24-9858P
CP-89-2	RG-59, 62	.320 (8.13)	.250 (6.35)	24-9859P
CP-SW88-2	RG-59, 62, RG-6 PLENUM	.320 (8.13)	.250 (6.35)	24-9859P
CP-SW88-10	RG-59AU PLENUM	.320 (8.13)	.211 (5.36)	24-9858P
CP-SW88-21	RG-58, RG-59 PLENUM	.320 (8.13)	.211 (5.36)	24-9858P
CP-SW88-21	RG-59	.320 (8.13)	.250 (6.35)	24-9859P



1. Identify connector parts. (2 piece parts)
2. Slide crimp sleeve over cable and strip cable jacket to dimension shown. Do not nick braid or center conductor during strip operations.
3. Flair braid and fold back. Strip cable insulation to dimension shown. Do not nick center conductor. Cables with stranded center conductors should be tinned for rigidity.
4. Insert center conductor into the guide hole found in the rear of the connector body. Push or twist the body onto the center conductor until the cable insulation butts up to the body.
5. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

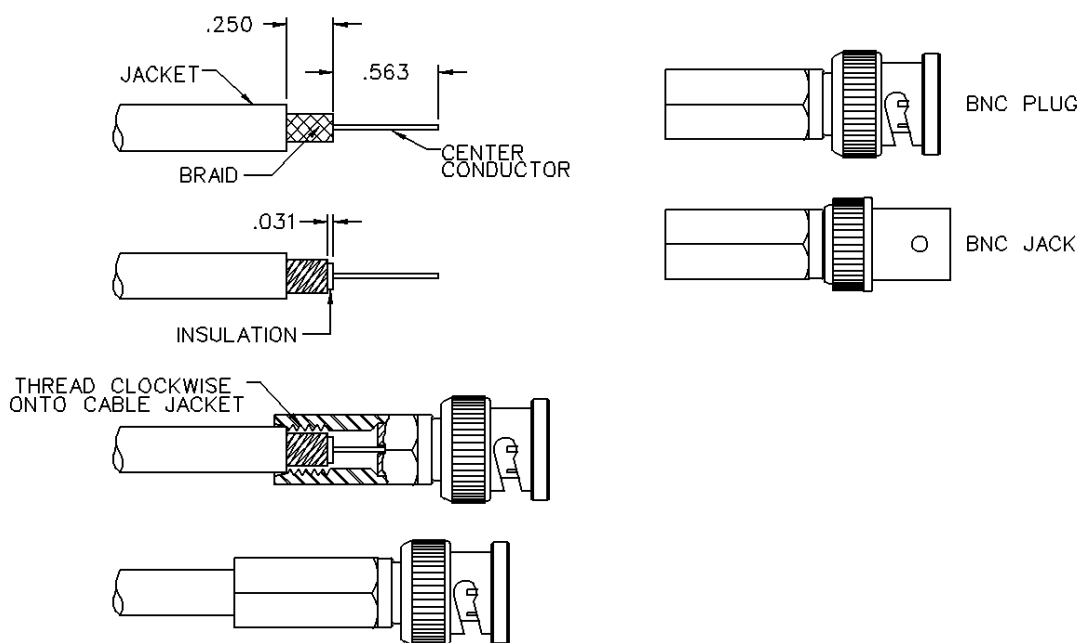
BNC Twist-on Plugs and Jacks Field Installable

PART NO.	CABLE TYPE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.
CPFI-UG78-2	RG-59, 62	22	.025 (0.64)	.220 (5.59)-.250 (6.35)
CPFI-UG78-5	RG-6	18	.040 (1.02)	.270 (6.86)-.280 (6.35)
CPFI-UG88-1	RG-58	20	.032 (0.81)	.185 (4.07)-.205 (5.21)
CPFI-UG88-2	RG-59, 62	22	.025 (0.64)	.220 (5.59)-.250 (6.35)
CPFI-UG88-3	BELDEN 8281	20	.032 (0.81)	.272 (6.91)-.307 (7.80)
CPFI-UG88-4	RG-MATV-59	20	.032 (0.81)	.220 (5.59)-.250 (6.35)
CPFI-UG88-5	RG-6	18	.040 (1.02)	.270 (6.86)-.280 (7.11)
CPFI-UG88-10	RG-TFE-59, 62	22	.025 (0.64)	.185 (4.07)-.205 (5.21)
CPFI-UG89-2	RG-59, 62	22	.025 (0.64)	.220 (5.59)-.250 (6.35)

CABLE ASSEMBLY CAUTIONS:

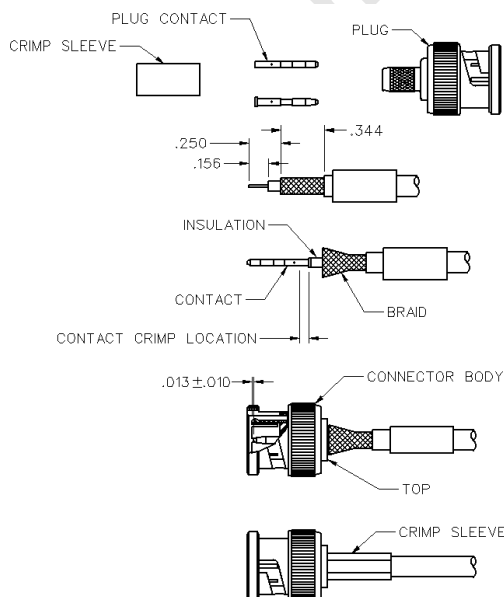
- Series are designed for solid center conductor wire. RG-58 cable will need the center conductor tin dipped (ONLY if it is not a solid center conductor). This is necessary to provide extra support for step 5.
- RG-MATV-59 cable will require caution when using the fingernail to rotate the braids on cable types that include aluminum foil for the outer conductor. DO NOT tear or rip the foil conductor to the 1/32" as suggested by step 3.
- RG-62 cable includes trimming the filament to 9/16" as well. Make sure that the filament does not unravel so that it protrudes past this dimension.

1. Identify connector parts. (1 piece)
2. Trim cable as shown. Taking care not to nick the center conductor or outer braid.
3. Use the fingernail to rotate the outer braids clockwise such that 1/32" of the insulation is bared. Then in the same direction rub the stray braids flat. (Stray or loose braids can cause shorts.)
4. Gently insert the center conductor down the back end of the connector, feeding it into the guide hole. (If the center conductor is not in place, approximately 1/8" of the center conductor—the part closest to the dielectric—will still be viewable.)
5. Firmly push the cable home (a slight clockwise twist may help with insertion). Then screw the connector on the cable in a clockwise direction until it is snugly attached to the jacket.



BNC 75 Ohm Straight Cabled Plugs

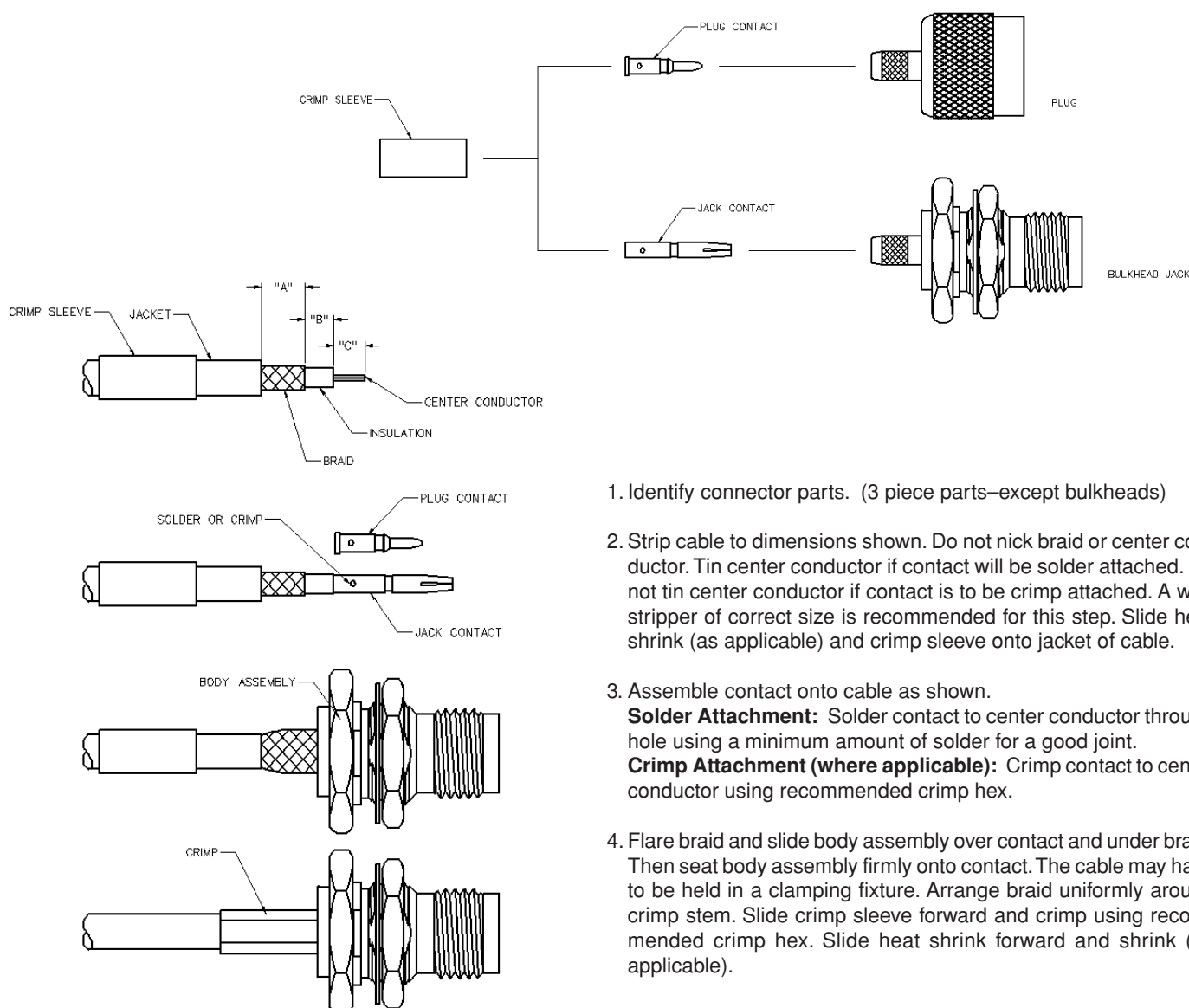
PART NO.	CABLE TYPE	CRIMP SLEEVE HEX	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
CPMC-68-2	RG-59, 140, 302, Belden 9209A, 8279, 8241, 8263, Commscope 5563, Gepco VJ59U	.255 (6.48)	.042 (1.07)	24-9963P
CPMC-68-3	Belden 8281, 9231, 9141, 728A, Commscope 7501, VP618PVC	.324 (8.23)	.042 (1.07)	24-9961P 24-8857P
CPMC-68-5	RG-6, Belden 8215	.350 (8.89)	.042 (1.07)	24-9962P
CPMC-68-10	Belden 82108, 89108, Coleman 99969	.255 (6.48)	.042 (1.07)	24-9963P
CPMC-68-18	Belden 8218	.178 (4.52)	.042 (1.07)	24-9963P
CPMC-68-20	RG-179, 187, Belden 1520A	.128 (3.25)	.042 (1.07)	24-9963P
CPMC-68-33	Belden 735A, Commscope 735, Helex/Hitemp 735, BT3002, TZC75024	.178 (4.52)	.042 (1.07)	24-9963P
CPMC-68-34	Belden 1855A, 720A Commscope 7538, Gepco VDM 230, VDM 250, Mini-75	.178 (4.52)	.042 (1.07)	24-9963P
CPMC-68-35	Belden 1505A, 734A, Commscope 5565, Gepco VPM2000	.255 (6.48)	.042 (1.07)	24-9963P
CPMC-68-36	Belden 1695A, Gepco VSD2001TS	.264 (6.71)	.042 (1.07)	24-9961P 24-8857P
CPMC-68-45	Belden 1694A, 9248, Commscope 5765, Gepco VSD2001, Coleman 96061	.288 (7.32)	.042 (1.07)	24-9962P
CPMC-68-50	Belden 1506A, 82259, 89259, Gepco VPM2000TK, VPM2000TS	.255 (6.48)	.042 (1.07)	24-9963P



1. Identify connector parts. (3 piece parts)
2. Slide crimp sleeve over the cable as shown.
3. Strip cable per dimensions given and loosen braid.
4. Place contact over cable center conductor and position against insulation.
5. Crimp (.042 crimp hex) or solder contact. If crimping the contact, crimp the contact as close as possible to the cable insulation as shown.
6. Push the cable with the attached contact into the connector body until contact is captured by internal rib within connector body. Contact location shall be per dimension shown. Slide crimp sleeve over braid until it rests against top of connector body. Finish assembly by crimping with appropriate crimp hex die as indicated for each connector by the table.

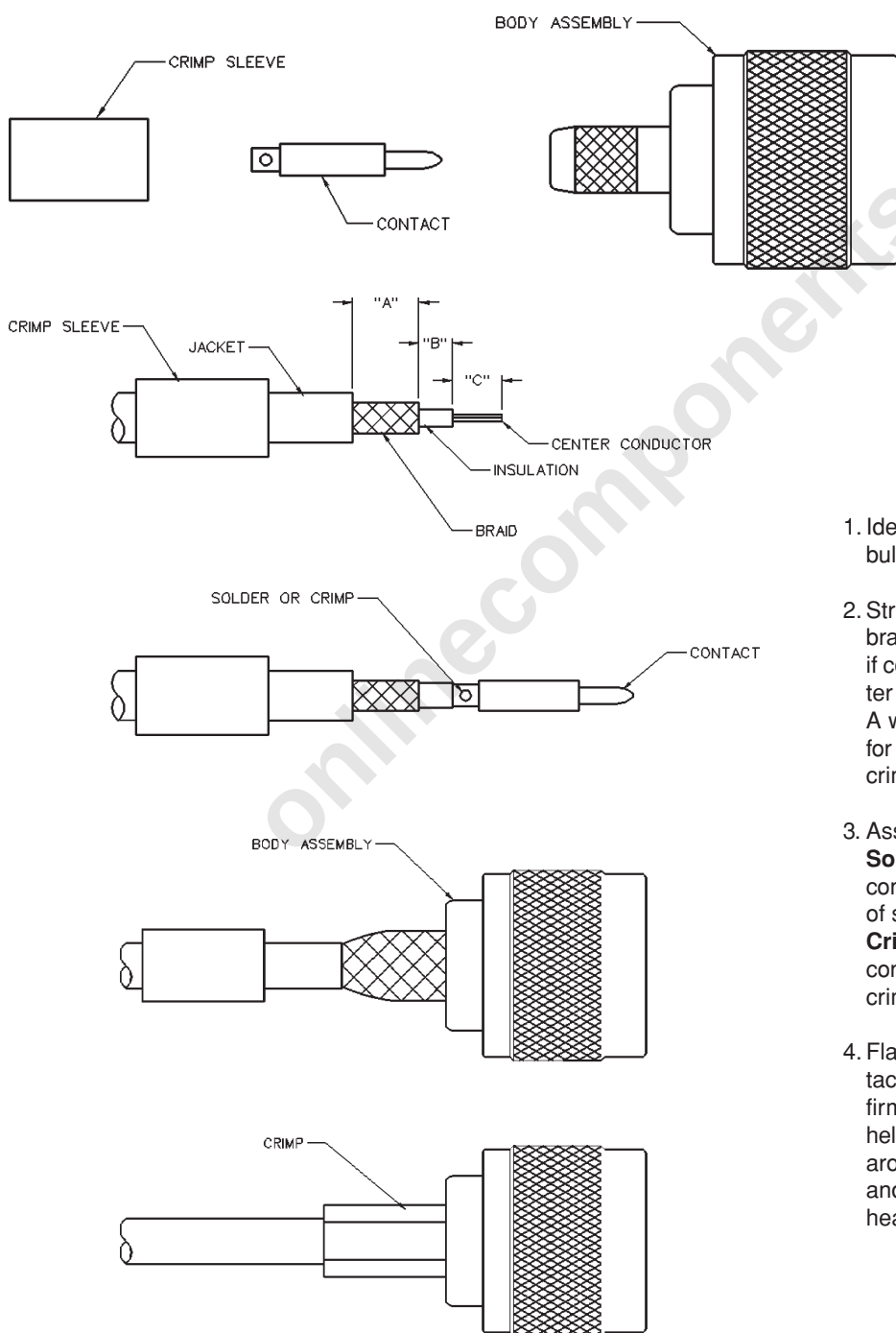
TNC Straight Crimp Type Plugs and Bulkhead Jacks for Flexible Cable

PART NO.	CABLE	STRIP DIMENSIONS			CRIMP SLEEVE HEX	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
		"A"	"B"	"C"			
CP-TNC-89-19-BM	RG-174, 316	.335 (8.51)	.197 (5.00)	.118 (3.00)	.184 (4.67)	.066 (1.69)	24-9912P
CPMC-TNC-1	RG-58	.315 (8.00)	.118 (3.00)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-TNC-2	RG-59	.315 (8.00)	.118 (3.00)	.157 (4.00)	.255 (6.48)	.066 (1.68)	24-9959P
CPMC-TNC-13	RG-55, 142	.315 (8.00)	.118 (3.00)	.157 (4.00)	.213 (5.41)	.067 (1.70)	24-9958P
CPMC-TNC-16	Proflex RG-450	.315 (8.00)	.118 (3.00)	.157 (4.00)	.255 (6.48)	.066 (1.68)	24-9959P
CPMC-TNC-17	RG-8X	.315 (8.00)	.118 (3.00)	.157 (4.00)	.255 (6.48)	.066 (1.68)	24-9959P



N Straight Crimp Type Plugs for Flexible Cable

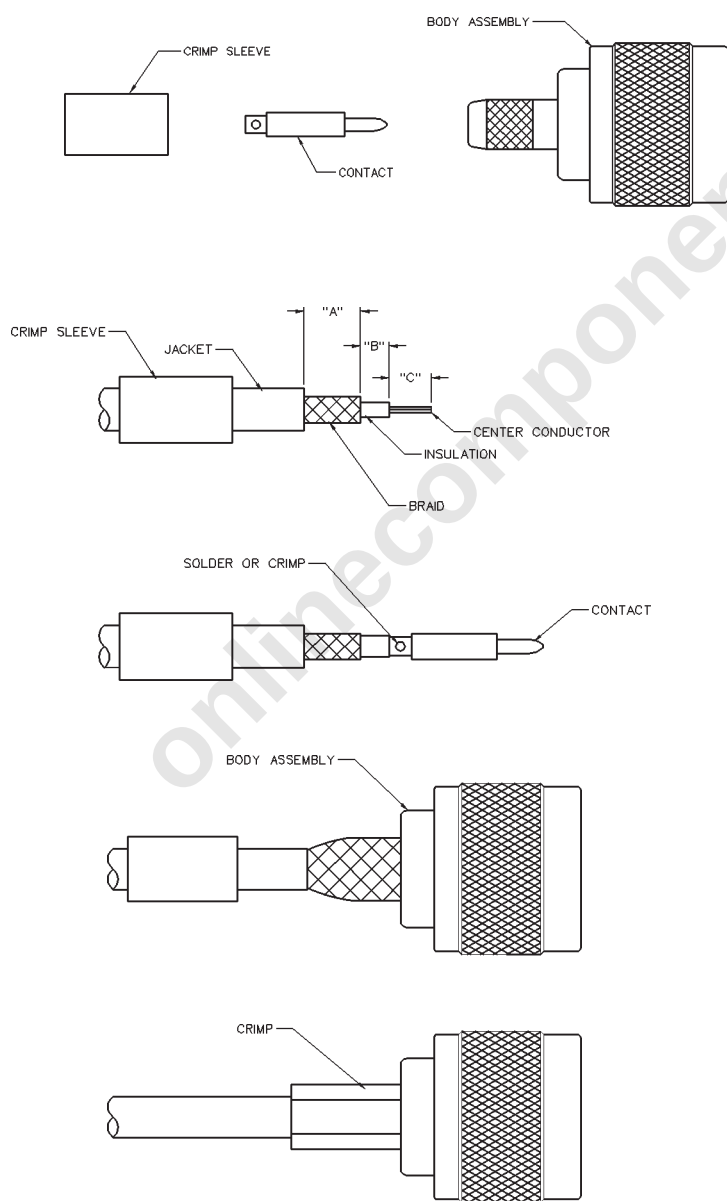
PART NO.	CABLE	STRIP DIMENSIONS			CRIMP SLEEVE HEX	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
		"A"	"B"	"C"			
CPN-68-1	RG-58	.335 (8.50)	.079 (2.00)	.157 (4.00)	.215 (5.46)	.065 (1.65)	24-8858P
CPN-68-13	RG-142	.335 (8.50)	.079 (2.00)	.157 (4.00)	.215 (5.46)	.065 (1.65)	24-8858P
CPN-68-8	RG-8, 213	.354 (9.00)	.138 (3.50)	.157 (4.00)	.429 (10.90)	.100 (2.54)	24-313



1. Identify connector parts. (3 piece parts—except bulkheads)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable.
3. Assemble contact onto cable as shown.
Solder Attachment: Solder contact to center conductor through hole using a minimum amount of solder for a good joint.
Crimp Attachment (where applicable): Crimp contact to center conductor using recommended crimp hex.
4. Flare braid and slide body assembly over contact and under braid. Then seat body assembly firmly onto contact. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp hex. Slide heat shrink forward and shrink (as applicable).

N Crimp-Crimp Plugs for Flexible Cable

PART NO.	CABLE TYPE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.	HEX SIZE	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
CPN-1	RG-58	18	.043 (1.09)	.185 (4.07)–.205 (5.21)	.213 (5.41)	.100 (2.54)	24-312
CPN-2	RG-59	22	.0253 (6.43)	.220 (5.59)–.250 (6.35)	.255 (6.48)	.100 (2.54)	24-312
CPN-8	RG-8, 213	13	.072 (1.83)	.400 (10.16)–.410 (10.44)	.406 (10.31)	.102 (2.59)	24-7712P
CPN-8/110*	RG-58 LOW LOSS, 213	10	.110 (2.80)	.400 (10.16)–.410 (10.44)	.406 (10.31)	.102 (2.59)	24-7712P
CPN-16	Proflex RG-450	18	.056 (1.42)	.220 (5.59)–.250 (6.35)	.255 (6.48)	.100 (2.54)	24-312
CPN-17	RG-8X	16	.065 (1.65)	.220 (5.59)–.250 (6.35)	.255 (6.48)	.100 (2.54)	24-312
CPN-142T	RG-142TFE	20	.034 (0.86)	.200 (5.08)–.220 (5.59)	.213 (5.41)	.100 (2.54)	24-312

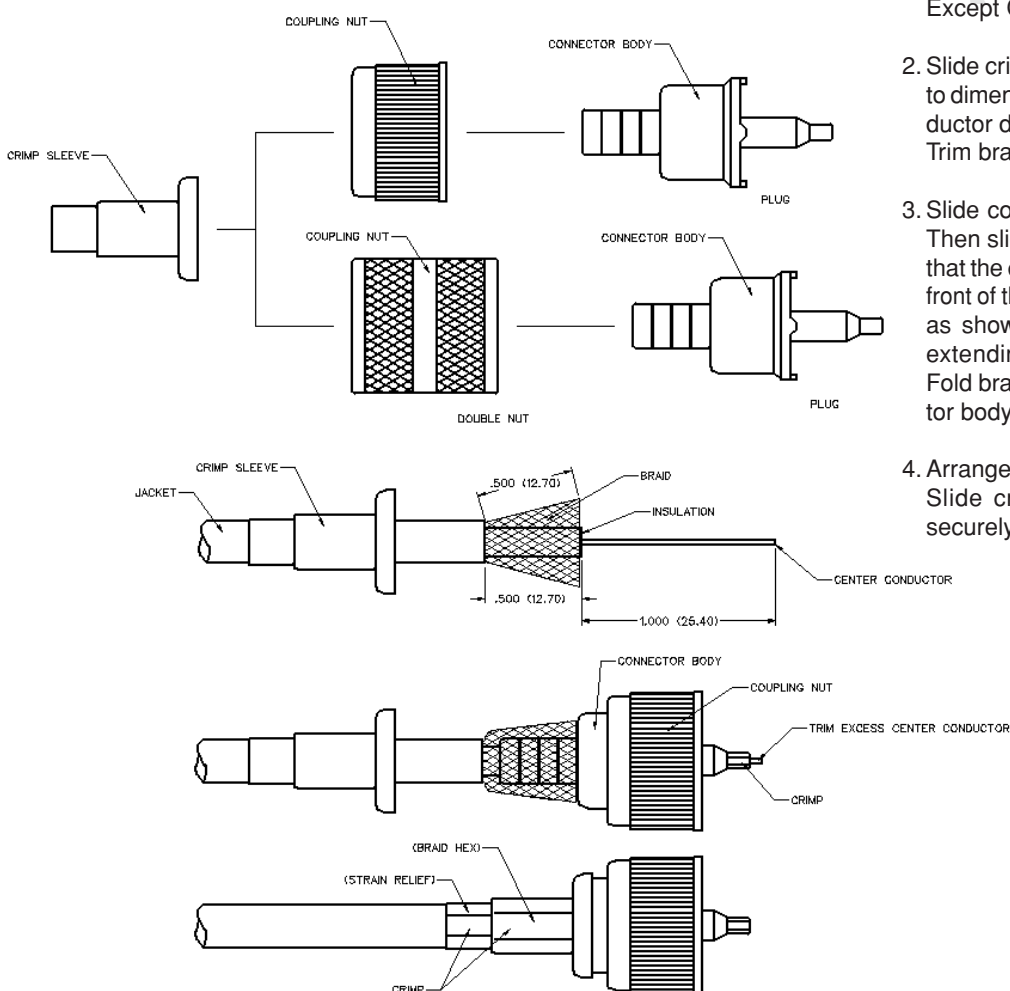


1. Identify connector parts. (3 piece parts)
2. Strip cable to dimensions shown. Do not nick braid or center conductor. Slide the crimp sleeve onto the jacket; crimp narrow end first.
3. Crimp and solder the contact onto the center conductor using the recommended crimp hex or the minimum amount of solder for a good joint. Note: Contacts may need to be pre-fit onto the center conductor and soldered through the hole.
4. Flare the braid and slide the connector body over the contact and under the braid. Then seat the body FIRMLY onto the contact; the cable may need to be held in a clamping fixture. Arrange the braid uniformly around the crimp stem, then slide the crimp sleeve forward to the body and crimp the sleeve using the recommended crimp hex.

* **Cable Assembly Notes:** The contact of the CPN-8/110 Connector fits RG-8 cable types with a center conductor diameter up to .110".

Standard UHF Straight Crimp Type Plugs for Flexible Cable

PART NO.	CABLE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.	CRIMP (BRAID HEX)	CRIMP (STRAIN RELIEF)	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
CPL-259-1	RG-58	20	.0325	.185 (4.07)–.205 (5.21)	.255 (6.48)	.213 (5.41)	.068 (1.73)	24-9960P
CPL-259-2	RG-59, 62	22	.0253	.220 (5.59)–.250 (6.35)	.255 (6.48)	NONE	.065 (1.65)	24-9960P
CPL-259-7	RG-58 COPHASE	2/20	2/.032	2/.185 (4.07)–.205 (5.21)	.255 (6.48)	NONE	NONE	24-9960P
CPL-259-8	RG-8	13	.085	.400 (10.06)–.410 (10.41)	.405 (10.29)	NONE	.110 (2.79)	24-310
CPL-259-9	RG-59 COPHASE	2/20	0/.025	2/.220 (5.59)	.448 (11.44)	NONE	NONE	24-7711P
CPL-259-10	RG-59 PLENUM, RG-62	22	.025	.185 (4.07)–.205 (5.21)	.235 (5.97)	NONE	.065 (1.65)	24-8857P
CPL-259-17	RG-8X	16	.0504	.220 (5.59)–.250 (6.35)	.255 (6.48)	NONE	NONE	24-9960P
CPL-259-18	RG-58	20	.0325	.185 (4.07)–.205 (5.21)	.255 (6.48)	.213 (5.41)	.068 (1.73)	24-9960P



1. Identify connector parts. (3 piece parts)
Except CPL-259-10 (1 piece)

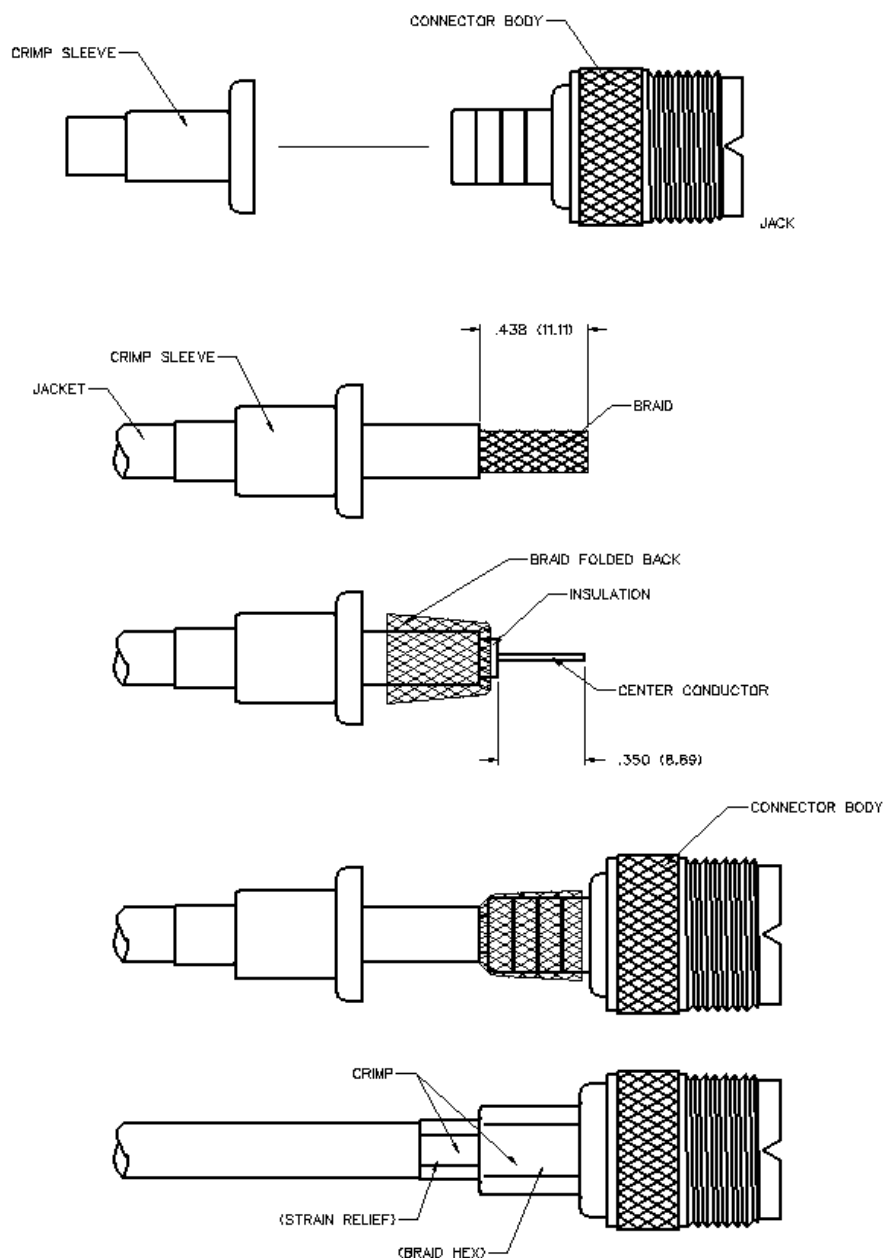
2. Slide crimp sleeve over cable and strip cable to dimensions shown. Do not nick center conductor during strip operations. (CPL-259-10: Trim braid and insulation to .300 (7.62)).

3. Slide coupling nut onto the connector body. Then slide the connector body over cable so that the center conductor extends through the front of the contact. Crimp or solder the contact as shown. Trim away the center conductor extending past the contact. (CPL-259-10: Fold braid onto jacket before sliding connector body onto cable).

4. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

Standard UHF Straight 2-Piece Crimp Type Jack for Flexible Cable

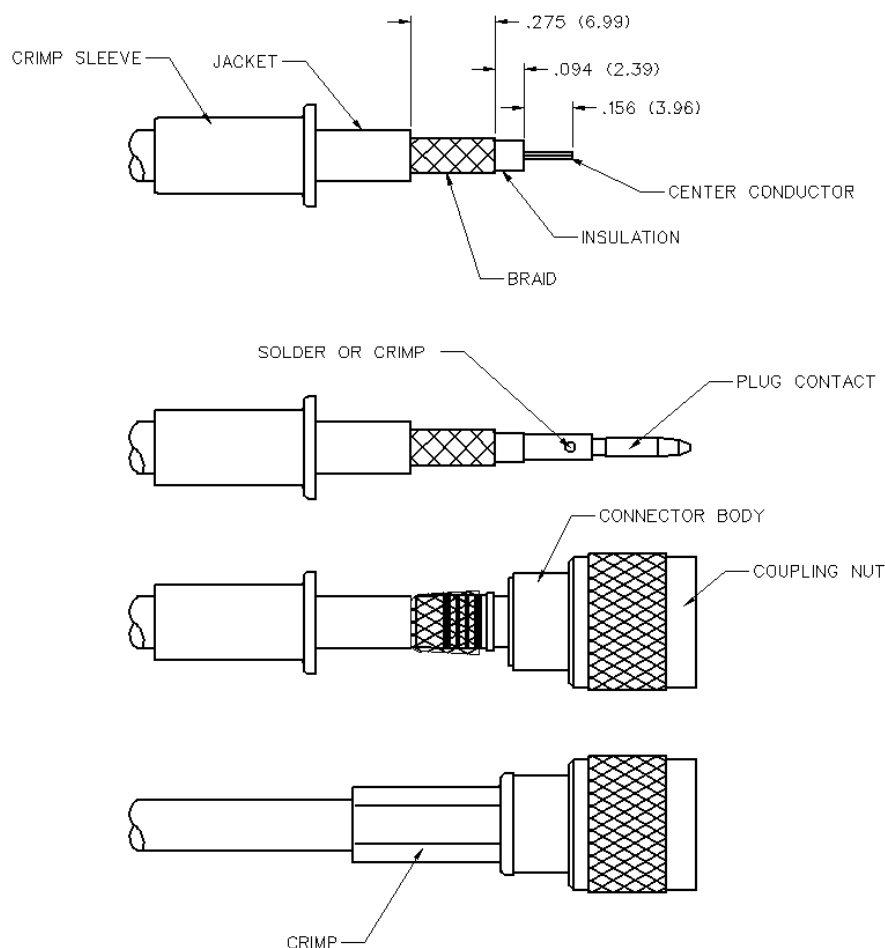
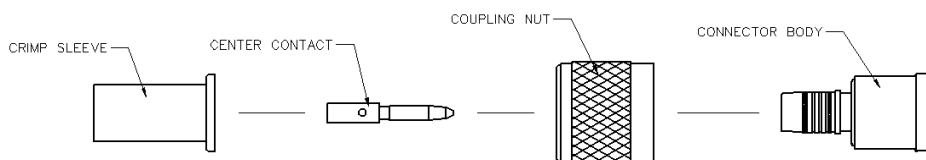
PART NO.	CABLE	WIRE GAUGE	WIRE DECIMAL	JACKET O.D.	CRIMP (BRAID HEX)	CRIMP (STRAIN RELIEF)	RECOMMENDED CRIMP TOOL
CPF-249-1	RG-58	20	.325 (0.83)	.185 (4.70)-.205 (5.21)	.320 (8.13)	.211 (5.36)	24-9858P



1. Identify connector parts. (2 piece parts)
2. Slide crimp sleeve over cable and strip cable jacket to dimension shown. Do not nick braid or center conductor during strip operations.
3. Flair braid and fold back. Strip cable insulation to dimension shown. Do not nick center conductor.
4. Insert center conductor into the guide hole found in the rear of the connector body. Twist the body onto the center conductor until the cable insulation butts up to the body.
5. Arrange braid uniformly around crimp stem. Slide crimp sleeve over braid and crimp securely using recommended crimp tool.

Mini-UHF Straight Crimp Type Plugs for Flexible Cable

PART NO.	CABLE	CONTACT I.D.	BODY I.D.	FERRULE I.D.	CRIMP (BRAID HEX)	CONTACT CRIMP HEX	RECOMMENDED CRIMP TOOL
MINI-UHF-1	RG-58	.044 (1.11)	.126 (3.20)	.206 (5.23)	.210 (5.33)	.060 (1.52)	24-8860P
MINI-UHF-1B	RG-58 Black	.044 (1.11)	.126 (3.20)	.206 (5.23)	.210 (5.33)	.060 (1.52)	24-8860P
MINI-UHF-2	RG-59, 62	.034 (0.86)	.173 (4.40)	.261 (6.63)	.255 (6.48)	.060 (1.52)	24-8860P
MINI-UHF-16	RG-450, Proflex	.055 (1.40)	.173 (4.40)	.261 (6.63)	.255 (6.48)	.060 (1.52)	24-8860P
MINI-UHF-17	RG-8X	.065 (1.65)	.173 (4.40)	.261 (6.63)	.255 (6.48)	.060 (1.52)	24-8860P



1. Identify connector parts. (4 piece parts)

2. Slide heat shrink (as applicable) and crimp sleeve onto jacket of cable. Strip cable to dimensions shown. Do not nick braid or center conductor. Tin center conductor if contact will be solder attached. Do not tin center conductor if contact is to be crimp attached. A wire stripper of correct size is recommended for this step.

3. Assemble contact onto cable as shown.

Solder Attachment: Solder contact to center conductor through hole using a minimum amount of solder for a good joint.

Crimp Attachment (where applicable): Crimp contact to center conductor using recommended crimp tool.

4. Slide coupling nut onto the connector body.

5. Flare braid and slide body assembly over contact and under braid as shown. Then seat body assembly firmly onto contact until a gentle snap is felt indicating the contact is in place. The cable may have to be held in a clamping fixture. Arrange braid uniformly around crimp stem. Slide crimp sleeve forward and crimp using recommended crimp tool. Slide heat shrink forward and shrink (as applicable).

Assembly Tools and Fixtures 277**Banana Jacks**

Insulated Pierced Lug Terminal	268
Insulated Rib-Loc® Solder Terminal	267
Insulated Solder Terminal	268
Insulated Turret Terminal	267
Uninsulated Rivet Panel Mount	266
Uninsulated Standard Type	266
Uninsulated Standard Type - Slotted Lug	267

Banana Plugs

Insulated Hex Body Solder Stud	272
Insulated Hex Body Solder Type Long Handle	271
Insulated Round Body Solderless	273
Insulated Round Body Solder Stud	272
Insulated Side Set Screw Solderless	271
Insulated Solderless Tapered Handle	270
Insulated Stacking Dual Type	274
Insulated Stacking Single Type	273
Uninsulated Panel Mount Screw Type, Beryllium Copper Spring	270
Uninsulated Panel Mount Screw Type, Nickel Silver Spring	269
Uninsulated Panel Mount Threaded Stud	269
Uninsulated Rivet Type	269

Banana Jacks & Plugs (Miniature)

Insulated Rib-Loc® Turret Terminal	275
Insulated Solder Type	275

Binding Posts

Insulated Standard	276
Insulated Standard With - Thumb Nut-Grounded Type	276
Uninsulated Knurled Thumb - Nut-Grounded Type	276

Test Jacks

Horizontal	260
Vertical	261

Tip Jacks

Insulated Deluxe	263
Insulated Jack and Sleeve Assembly	264
Insulated Metal Clad-Military	262
Insulated Metal Clad-Standard	263
Insulated Rib-Loc®	262
Insulated Standard	264

Tip Plugs

.060 (1.50) Shrouded	265
Insulated .080 (2.00) Solderless	265
Insulated .080 (2.00) Standard Small Handle	265

Emerson Network Power Connectivity Solutions can meet your hardware specifications for design, delivery, and quality. Our network of distributors delivers products promptly from our comprehensive product line and helps fulfill your prototype needs. As a manufacturer, we can custom design and deliver any hardware you need.

Ordering Information: For a numerical index of the complete electronic hardware product line, refer to page 289.

Each product listing in this section includes detailed drawings and part numbering information. Material, mechanical, electrical and environmental specifications are listed for each item.

To Order: When the part numbers you require have been identified, call us at 1-800-247-8256, ext. 6281. We will identify your local distributor who can very likely fill your order from inventory.

Specials: For non-standard items, special applications or design engineering needs, call 1-800-247-8256, ext. 6281. Our experienced design engineering staff can customize any part or design a new part to meet your requirements. Complete model shop facilities are available for your prototyping needs.

Horizontal Test Jacks

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

Application • Test Points

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

EMERSON
Network Power

Insulated Miniature

SPECIFICATIONS

Contact: Copper aluminum alloy*

Finish: Silver

Body: Nylon 6/6 per ASTM D4066

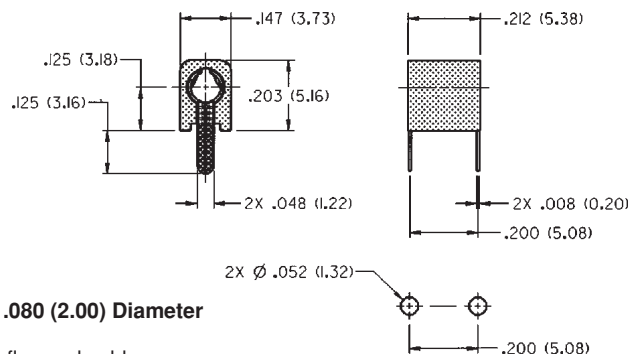
RATINGS

Current: 5 amps

Breakdown Voltage: 2100 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Adjacent Jack C: 1 pF maximum at 1 MHz



For Standard Tip Plug: .080 (2.00) Diameter
FEATURES:

- Contact protected from flux and solder
- Probe access from both ends
- Nylon UL approved for self extinguishing

*A new material development that, for this application, meets or exceeds beryllium copper.

MOUNTING HOLE LAYOUT

SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-1101-001	White	105-1107-001	Yellow
105-1102-001	Red	105-1110-001	Blue
105-1103-001	Black		
105-1104-001	Green		

Insulated Standard

SPECIFICATIONS

Contact: Copper aluminum alloy*

Finish: Gold or Silver

Body: Nylon 6/6 per ASTM D4066

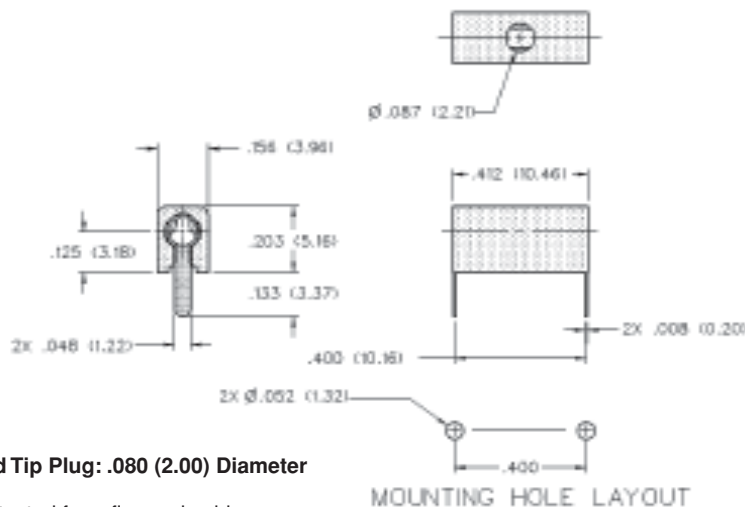
RATINGS

Current: 5 amps

Breakdown Voltage: 2100 VRMS minimum†

Contact Resistance: Gold: 0.005 ohms maximum
Silver: 0.010 ohms maximum

Adjacent Jack C: 1 pF maximum at 1 MHz



For Standard Tip Plug: .080 (2.00) Diameter
FEATURES:

- Contact protected from flux and solder
- Probe access from both ends or top
- Nylon UL approved for self extinguishing

*A new material development that, for this application, meets or exceeds beryllium copper.

MOUNTING HOLE LAYOUT

GOLD PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0751-150	White	105-0753-150	Black
105-0752-150	Red	105-0757-150	Yellow
SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0751-001	White	105-0757-001	Yellow
105-0752-001	Red	105-0758-001	Brown
105-0753-001	Black	105-0760-001	Blue
105-0754-001	Green	105-0762-001	Violet
105-0756-001	Orange	105-0763-001	Gray

Insulated Ruggedized: Military Type

SPECIFICATIONS

Contact: Copper aluminum alloy*

Finish: Gold or Silver

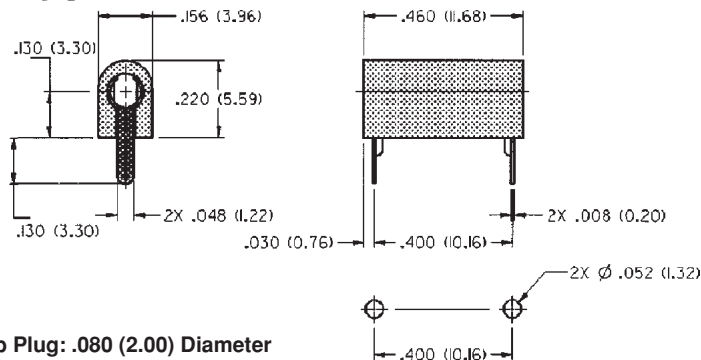
Body: Nylon 6/6 per ASTM D4066

RATINGS

Current: 5 amps

Breakdown Voltage: 2500 VRMS minimum†

Contact Resistance: Gold: 0.005 ohms maximum



For Standard Tip Plug: .080 (2.00) Diameter
FEATURES:

- Contact protected from flux and solder
- Probe access from both ends
- Nylon UL approved for self extinguishing
- For Military or Industrial Applications

*A new material development that, for this application, meets or exceeds beryllium copper.

MOUNTING HOLE LAYOUT

GOLD PLATING			
Part No. to mil-spec. part no. cross reference			
PART NO.	COLOR	MIL-C-39024/11	
105-2201-105	White	-01	
105-2202-105	Red	-02	
105-2203-105	Black	-03	
105-2204-105	Green	-05	
105-2207-105	Yellow	-08	
SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-2201-101	White	105-2204-101	Green
105-2202-101	Red	105-2207-101	Yellow
105-2203-101	Black		

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated: Machined Contact

SPECIFICATIONS:

Contact: Beryllium copper per QQ-C-530

Finish: Silver

Body: Nylon 6/6 per ASTM D4066

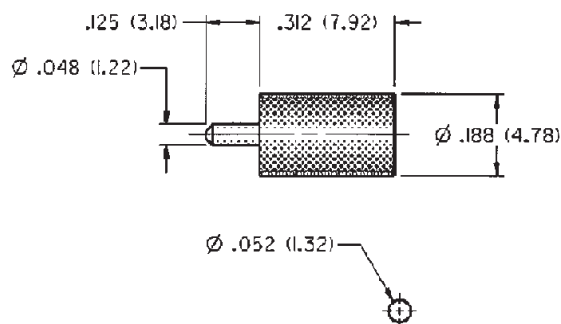
RATINGS

Current: 5 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Adjacent Jack C: 1 pF maximum at 1 MHz



MOUNTING HOLE LAYOUT

SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0851-001	White	105-0856-001	Orange
105-0852-001	Red	105-0857-001	Yellow
105-0853-001	Black	105-0858-001	Brown
105-0854-001	Green	105-0860-001	Blue

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Contact protected from flux and solder
- Nylon UL approved for self extinguishing

Insulated: Formed Contact

SPECIFICATIONS:

Contact: Beryllium copper per QQ-C-530

Finish: Gold or Silver

Body: Nylon 6/6 per ASTM D4066

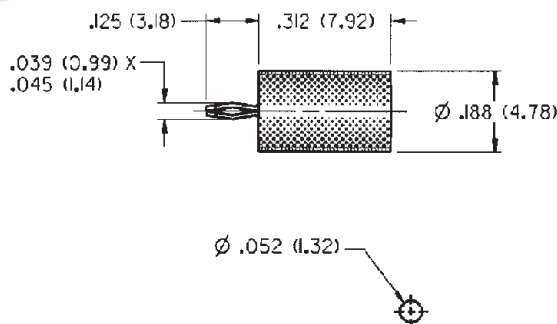
RATINGS

Current: 5 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: Silver: 0.010 ohms maximum

Adjacent Jack C: 1 pF maximum at 1 MHz



MOUNTING HOLE LAYOUT

SILVER PLATING	
PART NO.	COLOR
105-2201-201	White
105-2202-201	Red
105-2203-201	Black
105-2204-201	Green
105-2207-201	Yellow

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Spring loaded lead to hold in board
- Contact protected from flux and solder
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Standard: Rib-Loc® Type



SPECIFICATIONS

Contact: Brass body per QQ-B-626D with wrap around beryllium copper spring per QQ-C-553

Finish: Silver

Body: Nylon 6/6 per ASTM D4066

Panel Thickness: Up to .375 (9.05)

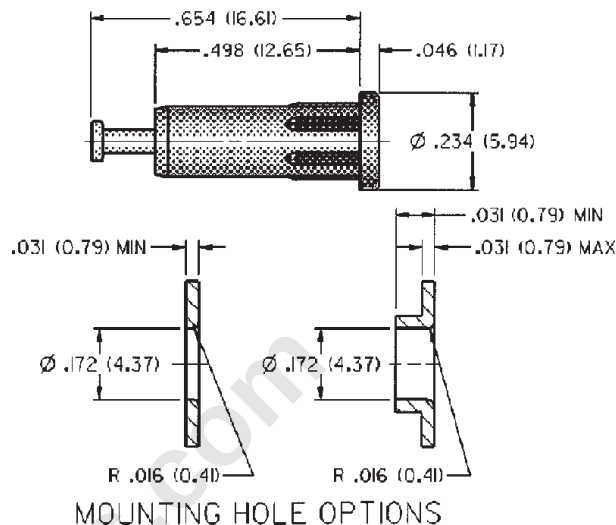
RATINGS

Current: 5 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.005 ohms maximum

Adjacent Jack C: 1 pF nominal



SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-1041-001	White	105-1044-001	Green
105-1042-001	Red	105-1047-001	Yellow
105-1043-001	Black	105-1050-001	Blue

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Machined contact with turret terminal
- Installs by pressing into mounting hole, no mounting hardware required
- Closed entry blocks access or probes greater than .085 (2.16)
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Metal Clad: Military Type



SPECIFICATIONS

Contact: Brass per QQ-B-626D with wrap around beryllium copper spring per QQ-C-533

Finish: Gold

Body: Nylon 6/6 per ASTM D4066

Threaded Brass Jacket: Per QQ-B-626D, nickel plated

Hardware: Nickel plated washer and nut (unassembled)

Panel Thickness: Up to .218 (5.45)

RATINGS

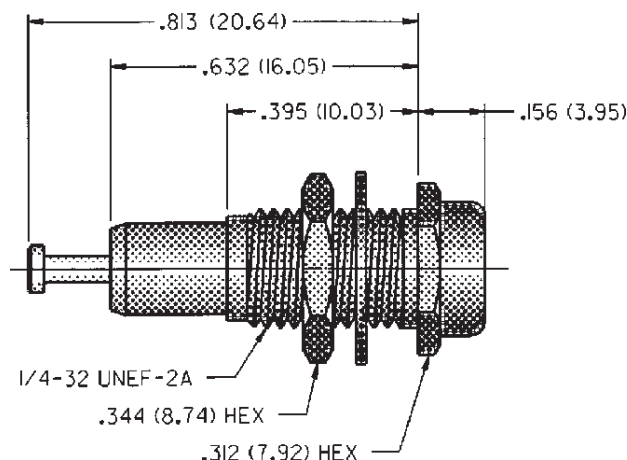
Current: 10 amps

Breakdown Voltage: 5700 VRMS minimum†

Contact Resistance: 0.004 ohms maximum

Contact-To-Panel C: 2 pF nominal

Manufactured to meet MIL-C-39024/10



GOLD PLATING		
Part No. to MIL-spec. Part No. Cross Reference		
PART NO.	COLOR	MIL-C-39024/10
105-0201-200	White	-01
105-0202-200	Red	-02
105-0203-200	Black	-03
105-0204-200	Green	-05
105-0210-200	Blue	-07

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Machined contact with turret terminal
- For military or industrial applications
- Closed entry blocks access or probes greater than .085 (2.16)
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

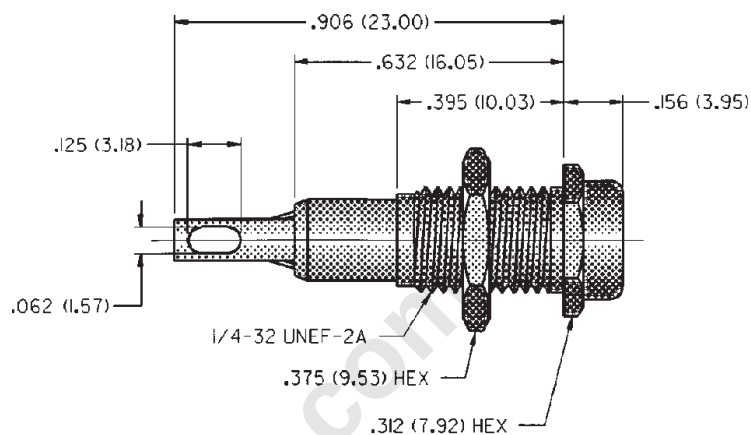
Insulated Metal Clad: Standard Type



SPECIFICATIONS

Contact: Phosphor bronze per QQ-B-750**Finish:** Silver**Body:** Nylon 6/6 per ASTM D4066**Threaded Brass Jacket:** Per QQ-B-626D, nickel plated**Panel Thickness:** Up to .281 (7.10)

RATINGS

Current: 10 amps**Breakdown Voltage:** 5700 VRMS minimum†**Contact Resistance:** 0.010 ohms maximum**Contact-To-Panel C:** 2 pF nominal

SILVER PLATING	
PART NO.	COLOR
105-0251-001	White
105-0252-001	Red
105-0253-001	Black

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Formed contact with slotted terminal
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

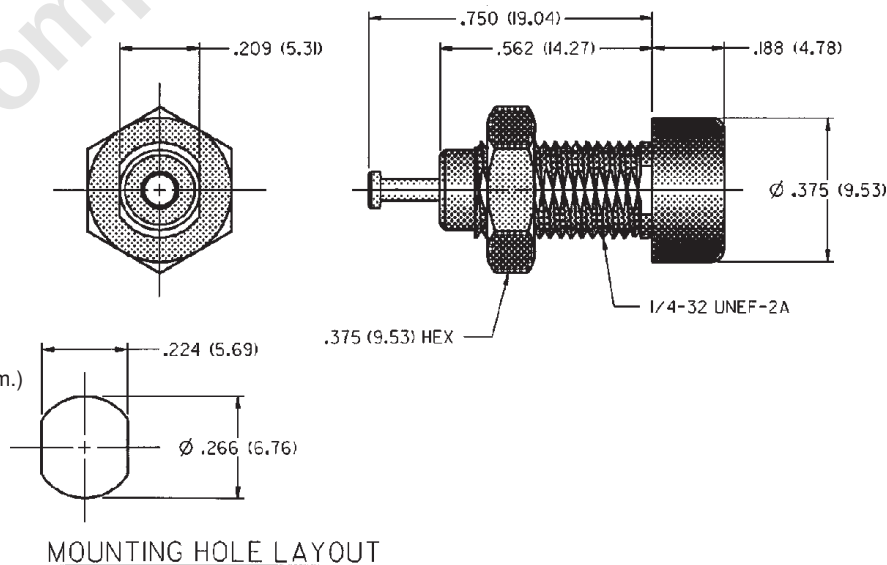
Insulated Deluxe



SPECIFICATIONS

Contact: Brass per QQ-B-626D with wrap around beryllium copper spring per QQ-C-533**Finish:** Silver**Body:** Nylon 6/6 per ASTM D4066**Hardware:** Nickel plated nut (unassembled)**Body Thread Stripping Torque:** 0.4 lb. in (4.5 kg. cm.)**Panel Thickness:** Up to .437 (11.10)

RATINGS

Current: 10 amps**Breakdown Voltage:** 5700 VRMS minimum†**Contact Resistance:** 0.010 ohms maximum**Contact-To-Panel C:** 2 pF nominal

MOUNTING HOLE LAYOUT

SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0601-001	White	105-0604-001	Green
105-0602-001	Red	105-0607-001	Yellow
105-0603-001	Black	105-0610-001	Blue

For Standard Tip Plug: .080 (2.00) Diameter

FEATURES:

- Machined contact with turret terminal
- Hex socket head .188 (4.77) for ease in mounting
- Closed entry blocks access of probes greater than .085 (2.16)
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Tip Jacks

Application • Connection to test equipment • Power supplies • Electrical instruments

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

onlinecomponents.com

EMERSON
Network Power

Insulated Standard



SPECIFICATIONS:

Contact: Phosphor bronze per QQ-B-750

Finish: Bright tin

Body: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Body Thread Stripping Torque: 4.0 lb. in.
(4.5 kg. cm.)

Panel Thickness: Up to .437 (11.10)

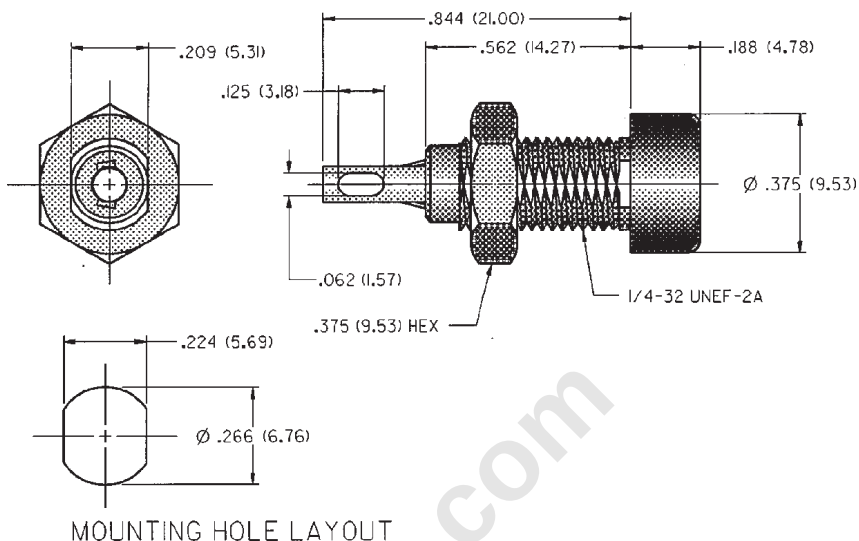
RATINGS

Current: 10 amps

Breakdown Voltage: 5700 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel C: 2 pF nominal



MOUNTING HOLE LAYOUT

BRIGHT TIN PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0801-001	White	105-0804-001	Green
105-0802-001	Red	105-0807-001	Yellow
105-0803-001	Black	105-0810-001	Blue

For Standard Tip Plug: .080 (2.00) Diameter FEATURES:

- Formed contact with slotted terminal
- Hex socket head .188 (4.77) for ease in mounting
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Tip Jack and Sleeve Assembly



SPECIFICATIONS

Contact: Brass per QQ-B-626D with wrap around beryllium copper spring per QQ-C-533

Finish: Silver

Body: Nylon 6/6 per ASTM D4066

Hardware: Nylon handle (assembled)

Body Thread Stripping Torque: 4.0 lb. in.
(4.5 kg. cm.)

Panel Thickness: Up to .125 (3.20)

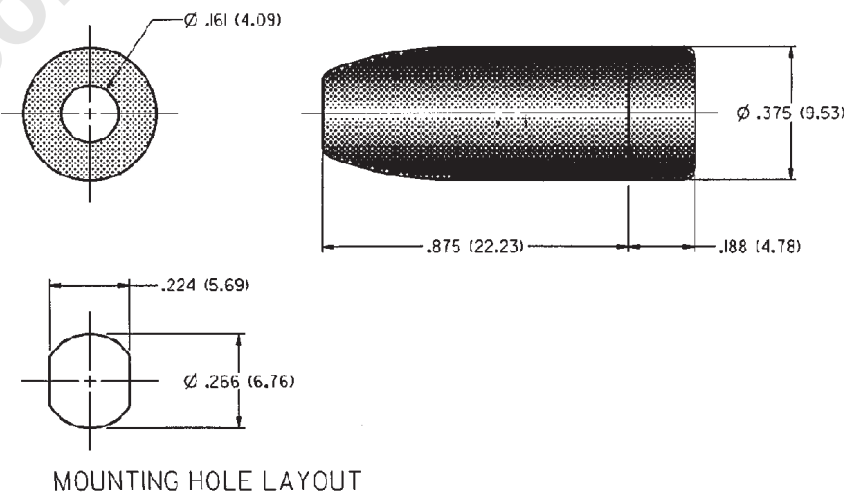
RATINGS

Current: 10 amps

Breakdown Voltage: 5700 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel C: 2 pF nominal



MOUNTING HOLE LAYOUT

SILVER PLATING	
PART NO.	COLOR
105-0701-001	White
105-0702-001	Red
105-0703-001	Black

For Standard Tip Plug: .080 (2.00) Diameter FEATURES:

- Machined contact with turret terminal
- Includes deluxe tip jack 105-060X-001
- For panel or line applications
- Hex socket head .188 (4.77) for ease in mounting
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

.060 (1.50) Shrouded Tip Plug

SPECIFICATIONS

Contact and Nut: Brass per QQ-B-626D

Finish: Gold or silver

Body: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Body Thread Stripping Torque: 6 in. lb. (7 kg.cm.)

Panel Thickness: Up to .343 (8.80)

RATINGS

Current: 7 amps

Breakdown Voltage: 3500 VRMS minimum†

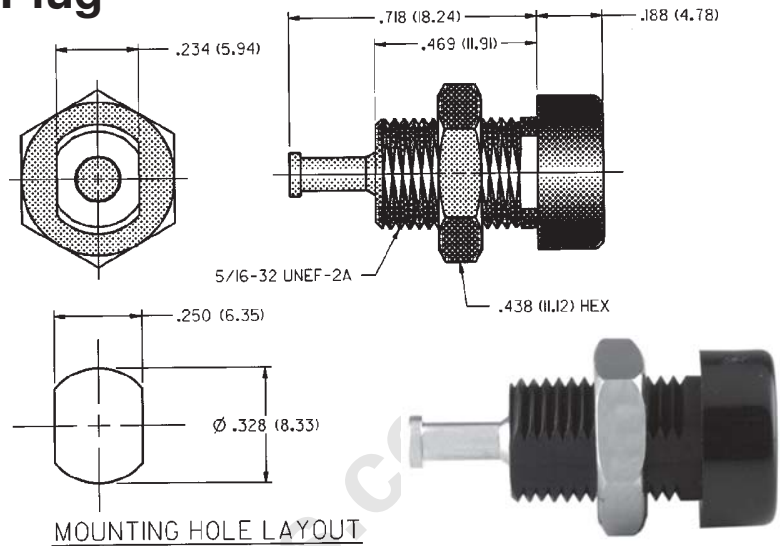
Contact Resistance: 0.010 ohms maximum

GOLD PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-1301-002	White	105-1304-002	Green
105-1302-002	Red	105-1307-002	Yellow
105-1303-002	Black	105-1310-002	Blue

For Standard Tip Jack: .060 (1.50) Diameter

FEATURES:

- Keyed mounting with double flats
- Shrouded
- Nylon UL approved for self extinguishing



†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

.080 (2.00) Insulated Standard: Small Handle (Solder or Crimp)

SPECIFICATIONS

Contact: Brass per QQ-B-626D

Finish: Nickel

Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 10 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

NICKEL PLATING	
SOLDER TYPE UP TO 16 GAUGE	CRIMP TYPE 16 GAUGE
PART NO.	COLOR
105-0771-001	White
105-0772-001	Red
105-0773-001	Black

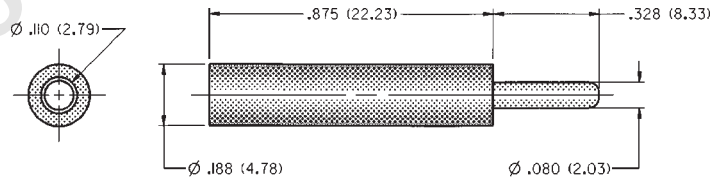
For Standard Test Jack: .080 (2.00) Diameter

FEATURES:

- Solder or crimp type connection
- Accepts wire sizes up to 16 gauge
- Nylon UL approved for self extinguishing
- Designed for use with horizontal and vertical test jacks only

See page xxx for crimp tool.

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.



.080 (2.00) Insulated: Solderless Type

SPECIFICATIONS

Contact: Brass per QQ-B-626D

Finish: Nickel

Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 10 amps

Breakdown Voltage: 3500 VRMS minimum†

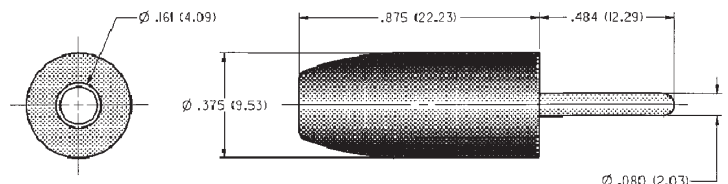
Contact Resistance: 0.010 ohms maximum

NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
105-0301-001	White	105-0304-001	Green
105-0302-001	Red	105-0310-001	Blue
105-0303-001	Black		

For Standard Tip Jack: .080 (2.00) Diameter

FEATURES:

- Recessed head to reduce shock hazard
- Accepts wire sizes up to 16 gauge
- Nylon UL approved for self extinguishing



†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Uninsulated Rivet Panel Mount:

Turret Terminal

SPECIFICATIONS

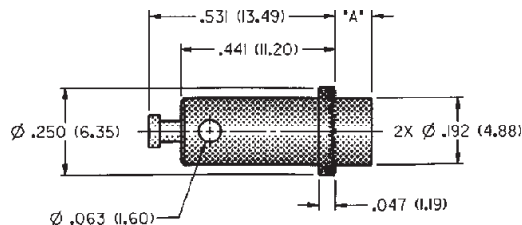
Jack Body: Brass per QQ-B-626D

Finish: Nickel

RATINGS

Current: 15 amps

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING		
PART NO.	PANEL THICKNESS	"A"
108-2300-501	.063 (1.6)	.105 (2.67)

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Nickel plated brass body with cross hole
- Low cost, easy mounting banana jack

Uninsulated Standard Type:

Pierced Lug Terminal

SPECIFICATIONS

Jack Body: Brass per QQ-B-626D

Finish: Nickel

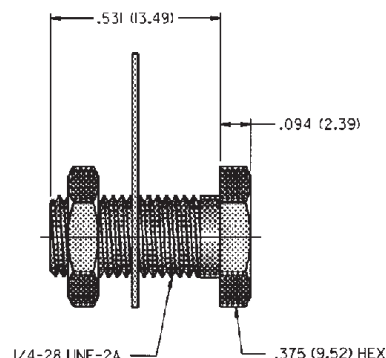
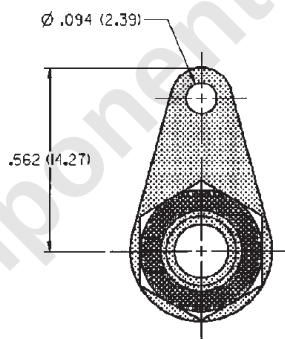
Hardware: Nickel plated nut; stamped tin plated solder terminal (unassembled)

Panel Thickness: Up to .375 (9.50)

RATINGS

Current: 15 amps

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING	
PART NO.	
108-0740-001	

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Accepts up to 12 gauge wire
- Hex head for faster installation
- For higher current designs

Uninsulated Standard Type:

Slotted Lug Terminal

SPECIFICATIONS

Jack Body: Brass per QQ-B-626D

Finish: Nickel

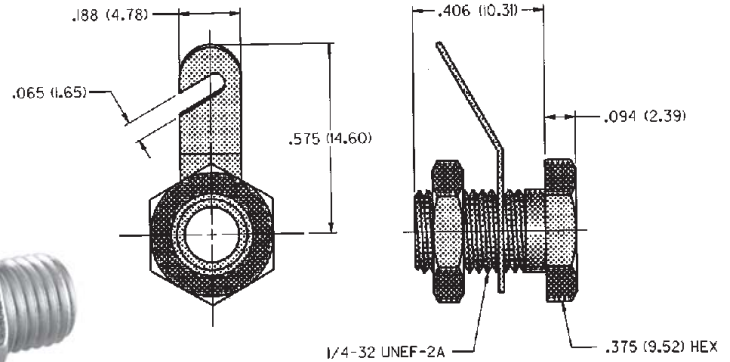
Hardware: Nickel plated nut; stamped tin plated solder terminal (unassembled)

Panel Thickness: Up to .250 (6.35)

RATINGS

Current: 15 amps

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING

PART NO.

108-0740-102

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Accepts up to 12 gauge wire
- Hex head for faster installation
- For higher current designs

Insulated Rib-Loc® Solder Terminal

SPECIFICATIONS

Contact: Formed brass per QQ-B-626D

Finish: Bright tin

Body: Nylon 6/6 per ASTM D4066

Panel Thickness: Up to .250 (6.35)

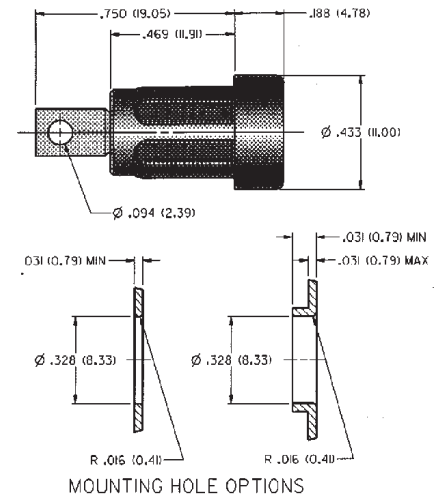
RATINGS

Current: 15 amps

Breakdown Voltage: 7000 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel C: 2.4 pF nominal



BRIGHT TIN PLATING

PART NO.	COLOR	PART NO.	COLOR
108-2301-801	White	108-2304-801	Green
108-2302-801	Red	108-2307-801	Yellow
108-2303-801	Black	108-2310-801	Blue

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Requires no mounting hardware
- Accepts up to 16 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Turret Terminal

SPECIFICATIONS

Contact: Machined brass per QQ-B-626D

Finish: Silver

Body: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Body Thread Stripping Torque: 6.0 lb. in. (7kg. cm.)

Panel Thickness: Up to .343 (8.80)

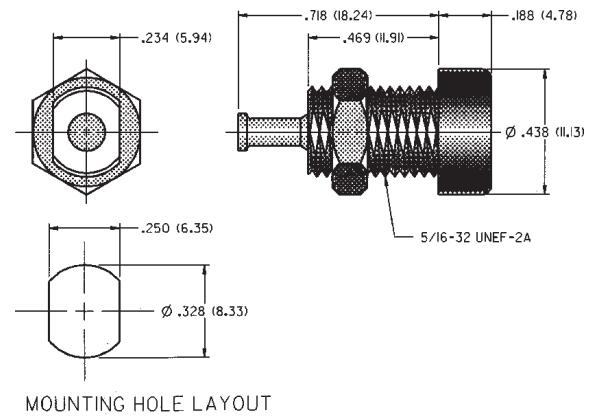
RATINGS

Current: 15 amps

Breakdown Voltage: 7000 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel: 2.4 pF nominal



SILVER PLATING

PART NO.	COLOR	PART NO.	COLOR
108-2302-621	Red	108-2303-621	Black

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Keyed mounting with double flats
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Solder Terminal

SPECIFICATIONS

Contact: Formed brass per QQ-B-626D

Finish: Bright tin

Body: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Body Thread Stripping Torque: 6.0 lb. in. (7kg. cm.)

Panel Thickness: Up to .343 (8.80)

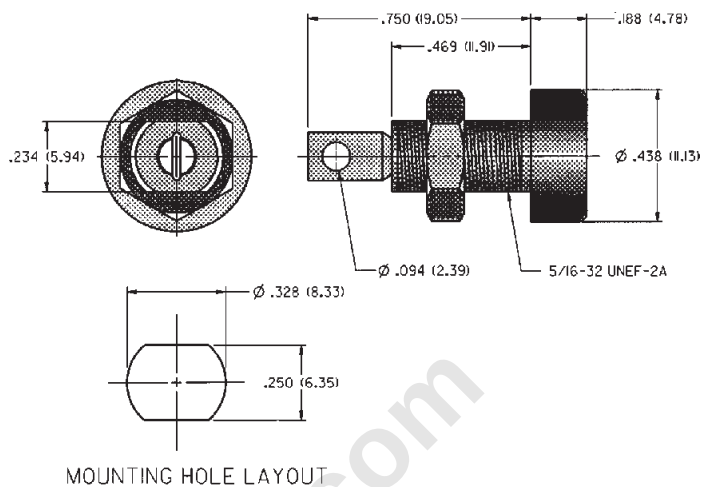
RATINGS

Current: 15 amps

Breakdown Voltage: 7000 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel: 2.4 pF nominal



BRIGHT TIN PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-0901-001	White	108-0907-001	Yellow
108-0902-001	Red	108-0908-001	Brown
108-0903-001	Black	108-0910-001	Blue
108-0904-001	Green	108-0912-001	Violet
108-0906-001	Orange	108-0913-001	Gray

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Keyed mounting with double flats
- Accepts up to 16 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Pierced Lug Terminal

SPECIFICATIONS

Contact: Brass per QQ-B-626D

Finish: Nickel

Hex Head: Molded phenolic

Hardware: Nickel plated nut, fiber insulating washer and stamped tin plated solder terminal (unassembled)

Panel Thickness: Up to .281 (7.15)

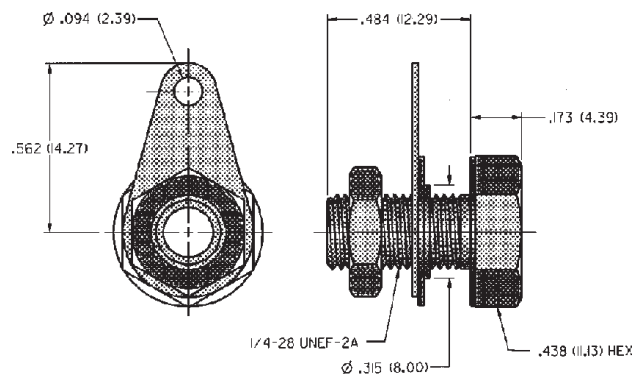
RATINGS

Current: 15 amps

Breakdown Voltage: 1500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum

Contact-To-Panel: 2.4 pF nominal



NICKEL PLATING	
PART NO.	COLOR
108-0745-001	Red
108-0745-002	Black

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Withstands extreme temperatures and abuse
- Stamped tin plated solder terminal with hole for up to 12 gauge wire
- Integrally molded hex head for fast installation

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Uninsulated Rivet Type

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Beryllium copper per QQ-C-533

Finish: Silver

Panel Thickness: Up to .156 (4.00)

RATINGS

Current: 15 amps

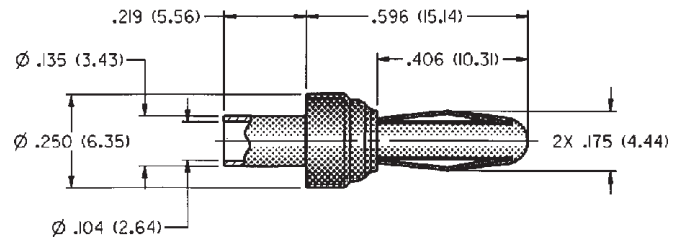
Contact Resistance: 0.010 ohms maximum

SILVER PLATING
PART NO.
108-0754-001

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Shorter spring adapts to standard jack or special size jack
- Ideal for limited space applications



Uninsulated Panel Mount Threaded Stud

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

Panel Thickness: Up to .25 (6.35) .625 (16.00)

Hardware: Nickel plated nut, stamped tin plated solder terminal (unassembled)

RATINGS

Current: 15 amps

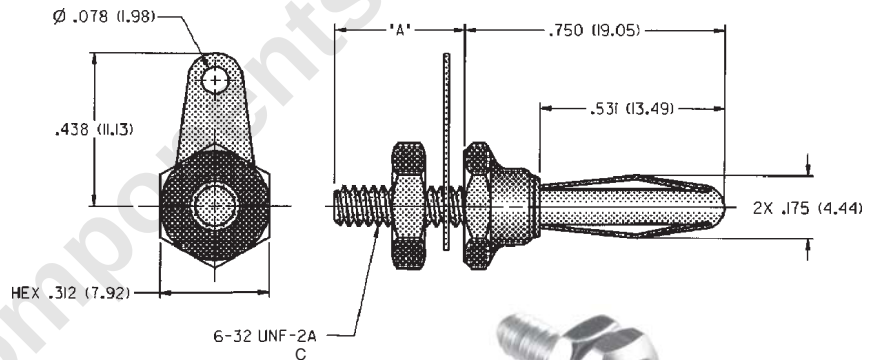
Contact Resistance: 0.010 ohms maximum

NICKEL PLATING	
PART NO.	STUD LENGTH "A"
108-0750-001	.375 (9.50)
108-0750-002	.750 (19.05)

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Two stud lengths adapt to different panel sizes
- Pierced hole for up to 14 gauge wire



Uninsulated Panel Mount Screw Type, Nickel Silver Spring

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Silver

Panel Thickness: Up to .125 (3.20)

Hardware: Nickel plated screw, stamped tin plated solder terminal (unassembled)

RATINGS

Current: 15 amps

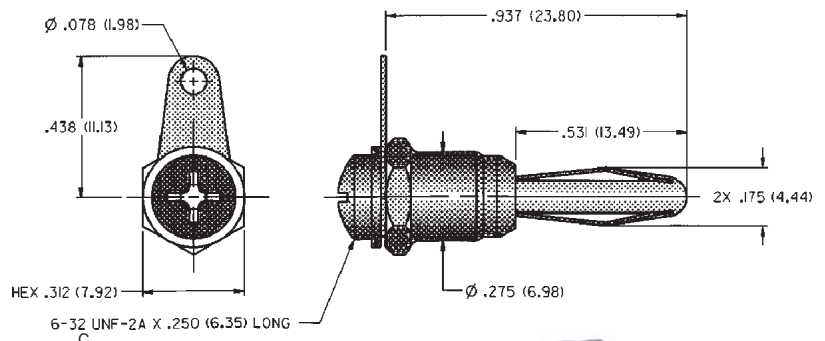
Contact Resistance: 0.010 ohms maximum

NICKEL PLATING
PART NO.
108-0753-001

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Rugged screw type
- Stamped tin plated solder terminal with hole for up to 14 gauge wire



Uninsulated Panel Mount Screw Type Beryllium Copper Spring

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Beryllium copper per QQ-C-533

Finish: Nickel

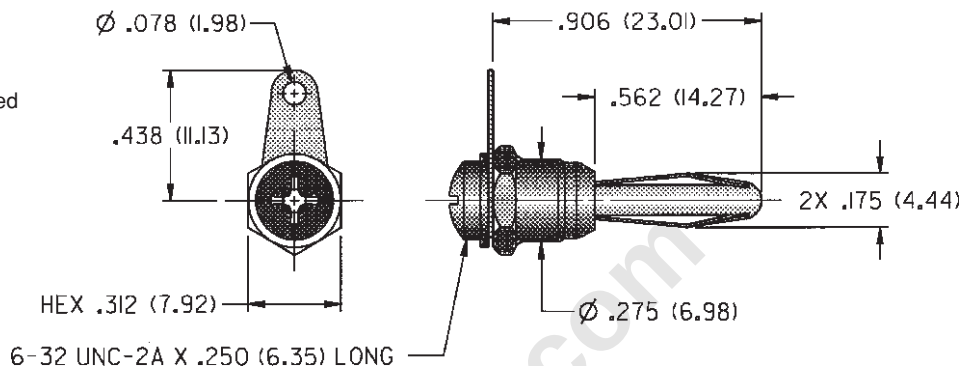
Panel Thickness: Up to .156 (4.00)

Hardware: Nickel plated nut, stamped tin plated solder terminal (unassembled)

RATINGS

Current: 15 amps

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING

PART NO.

108-0753-102

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Rugged screw type
- Stamped tin plated solder terminal with hole for up to 14 gauge wire

Insulated Solderless Tapered Handle

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-533

Finish: Nickel

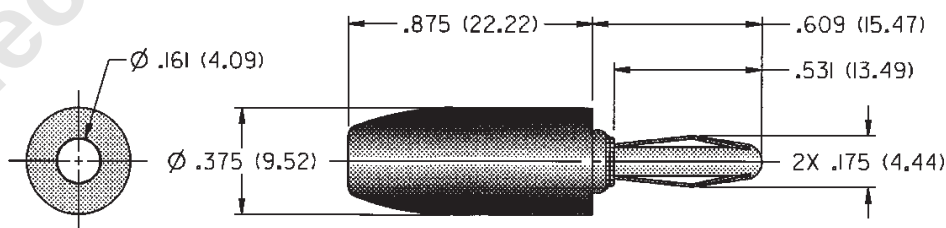
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING

PART NO.	COLOR	PART NO.	COLOR
108-0301-001	White	108-0307-001	Yellow
108-0302-001	Red	108-0308-001	Brown
108-0303-001	Black	108-0310-001	Blue
108-0304-001	Green	108-0312-001	Violet
108-0306-001	Orange	108-0313-001	Gray

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Fast solderless connection of up to 16 gauge wire
- Recessed plug body to limit shock hazard
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Hex Body Solder Type Long Handle

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

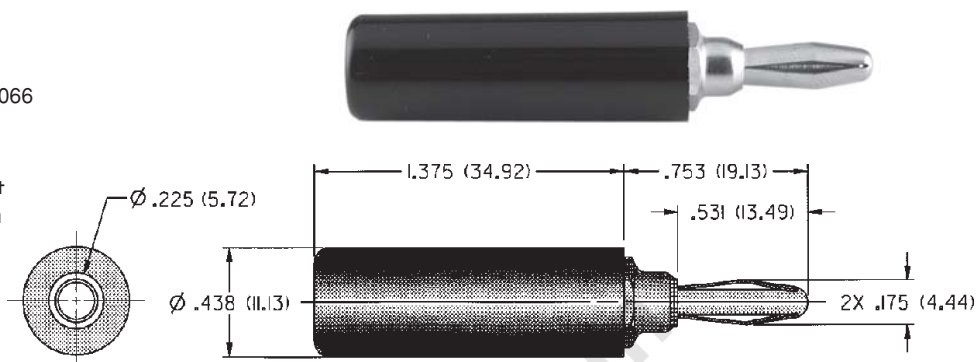
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING	
PART NO.	COLOR
108-0752-001	Black
108-0752-002	Red

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Solder type terminal uses up to 16 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Side Set Screw Solderless

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

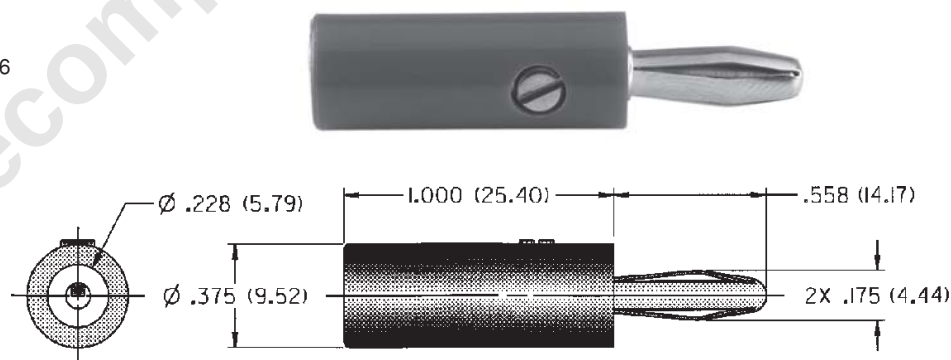
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 35 VRMS minimum†

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1702-101	Red	108-1703-101	Black

For Standard Banana Jack: .166 (4.23) Diameter

For Low Voltage (50 WVDC) Applications

FEATURES:

- Fast solderless connection of up to 16 gauge wire
- Set screw for dependable connections with low voltage
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Hex Body Solder Stud

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

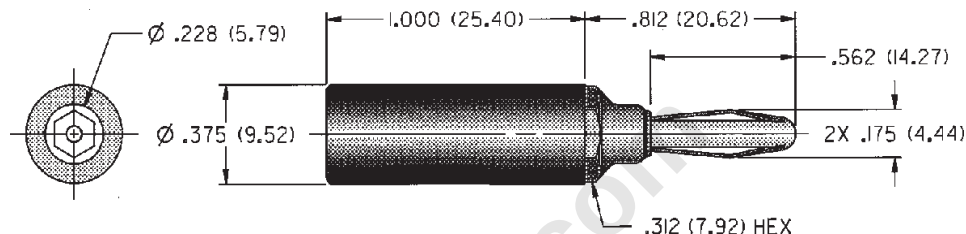
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1762-101	Red	108-1763-101	Black

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Wire can be soldered to threaded stud
- Solder stud accepts up to 16 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Round Body Solder Stud

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

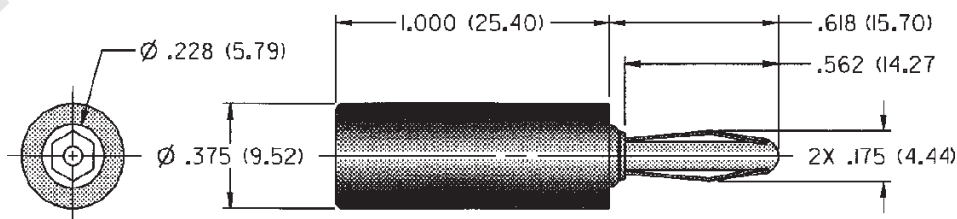
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum†

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1722-101	Red	108-1723-101	Black

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Wire can be soldered to threaded stud
- Solder stud accepts up to 16 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Round Body Solderless

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

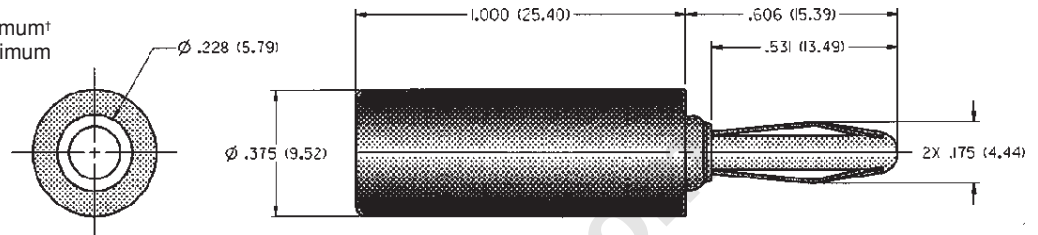
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum*

Contact Resistance: 0.010 ohms maximum



NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1722-103	Red	108-1723-103	Black

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Wire locked in place by screwing down handle
- Accepts up to 16 gauge wire
- Nylon UL approved for self extinguishing

*Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Stacking Single Type

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-585

Finish: Nickel

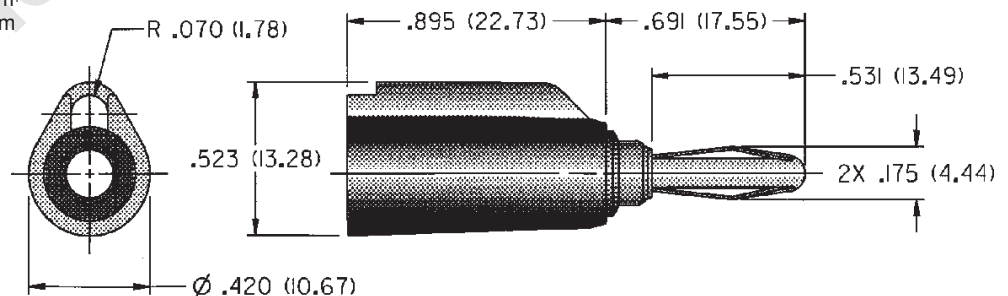
Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

Breakdown Voltage: 3500 VRMS minimum*

Contact Resistance: 0.010 Ohm maximum



NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1081-001	White	108-1083-001	Black
108-1082-001	Red	108-1087-001	Yellow

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Built in strain relief for long life
- Solder stud accepts up to 16 gauge wire
- Accepts standard banana plug from rear
- Nylon UL approved for self extinguishing

For assembly tools see page 277.

*Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Stacking Dual Type

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D

Plug Spring: Nickel silver per QQ-C-586

Finish: Nickel

Insulated Handle: Nylon 6/6 per ASTM D4066

RATINGS

Current: 15 amps

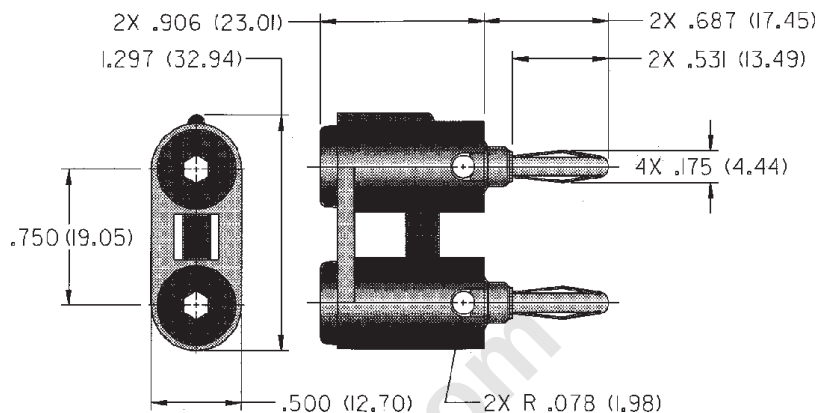
Breakdown Voltage: 3500 VRMS minimum*

Contact Resistance: 0.010 ohms maximum

For Standard Banana Jack: .166 (4.23) Diameter

FEATURES:

- Accepts standard banana plug from rear
- Built-in strain relief for long life
- Nylon UL approved for self extinguishing



NICKEL PLATING	
SET SCREW (Accepts wire sizes up to 14 gauge)	
PART NO.	COLOR
108-0252-001	Red
108-0253-001	Black

*Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

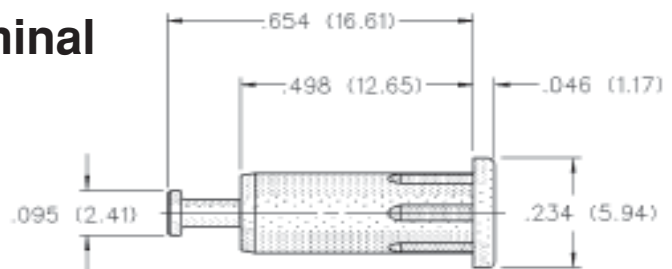


Insulated Rib-Loc® Turret Terminal

SPECIFICATIONS

Contact: Brass per QQ-B-626D**Finish:** Silver**Insulated Handle:** Nylon 6/6 per ASTM D4066**Panel Thickness:** Up to .313 (80)

RATINGS

Current: 10 amps**Breakdown Voltage:** 3500 VRMS minimum†**Contact Resistance:** 0.010 ohms maximum**Contact-To-Panel C:** 2.4 pF nominal

Mounting Hole Options

SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1102-001	Red	108-1103-001	Black

For Miniature Banana Plug: .120 (3.00) Across Flats

FEATURES:

- Hardwareless Rib-Loc® mounting design
- Nylon UL approved for self extinguishing

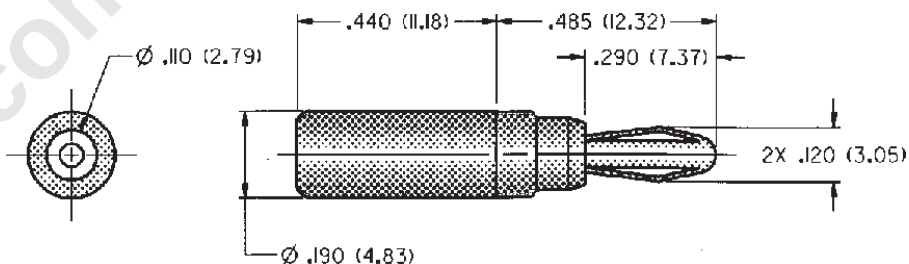
†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Solder Type

SPECIFICATIONS

Plug Body: Brass per QQ-B-626D**Plug Spring:** Beryllium copper per QQ-C-533**Finish:** Nickel**Insulated Handle:** Nylon 6/6 per ASTM D4066

RATINGS

Current: 10 amps**Breakdown Voltage:** 3500 VRMS minimum†**Contact Resistance:** 0.010 ohms maximum

NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
108-1002-001	Red	108-1003-001	Black

For Miniature Banana Jack: .104 (2.64) Diameter

FEATURES:

- Small size for limited space
- Solder terminal accepts up to 18 gauge wire
- Nylon UL approved for self extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Uninsulated With Knurled Thumb - Nut-Grounded Type

SPECIFICATIONS

Stud: Brass per QQ-B-626D

Finish: Nickel

Hardware: Nickel plated nut (unassembled)

Panel Thickness: Up to .281 (7.15)

RATINGS

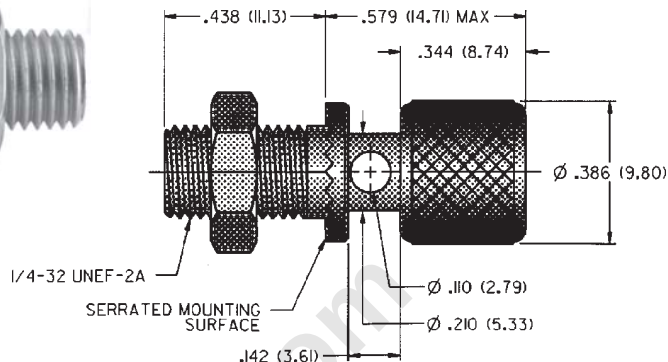
Current: 15 amps

NICKEL PLATING	
PART NO.	
111-2223-001	

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Nickel plated stud with serrated mounting surface prevents turning
- Captive thumb nut .110 (2.79) diameter cross-hole accommodates up to 10 gauge wire



Insulated Standard

SPECIFICATIONS

Stud: Brass per QQ-B-626D

Finish: Silver

Insulating Material: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Body Thread Stripping Torque:

6.0 lb. in. (7.0 kg cm)

Panel Thickness: Up to .281 (7.15)

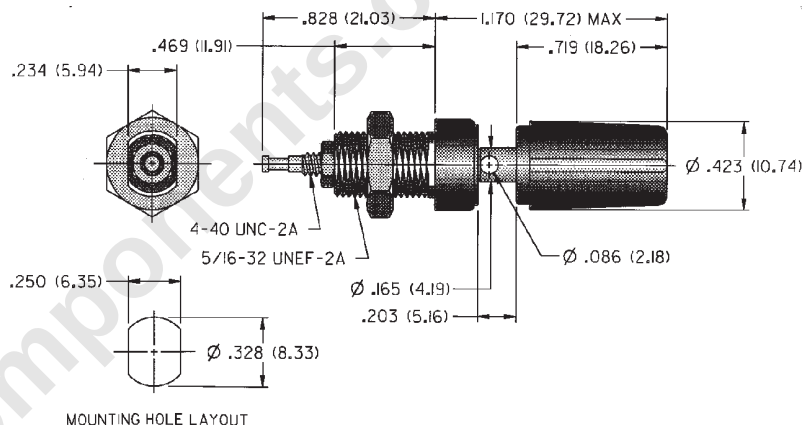
RATINGS

Current: 15 amps

Contact Resistance: 0.010 ohms maximum

Breakdown Voltage: 5700 VRMS minimum†

Stud-to-Panel: 3.3 pF nominal



SILVER PLATING			
PART NO.	COLOR	PART NO.	COLOR
111-0101-001	White	111-0104-001	Green
111-0102-001	Red	111-0107-001	Yellow
111-0103-001	Black	111-0110-001	Blue

For Standard Banana Plug: .175 (4.44) Dia.

FEATURES:

- Turret terminal
- Captive thumb nut
- Insulated body is flatted to prevent turning
- Nylon UL approved for self-extinguishing



†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

Insulated Standard With - Thumb Nut-Grounded Type

SPECIFICATIONS

Stud: Brass per QQ-B-626D

Finish: Nickel

Insulating Material: Nylon 6/6 per ASTM D4066

Hardware: Nickel plated nut (unassembled)

Panel Thickness: Up to .313 (7.95)

RATINGS

Current: 15 amps

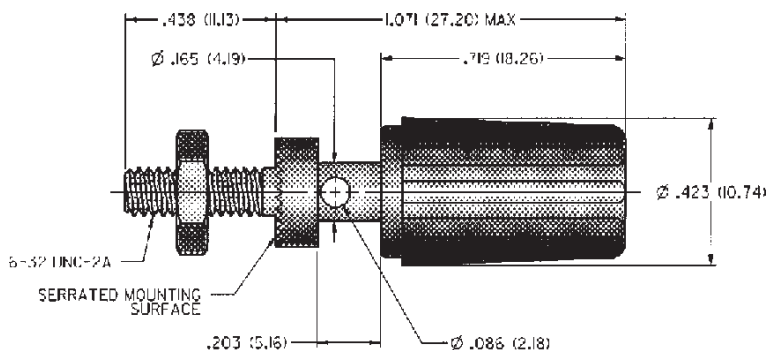
NICKEL PLATING			
PART NO.	COLOR	PART NO.	COLOR
111-0702-001	Red	111-0703-001	Black

For Standard Banana Plug: .175 (4.44) Across Flats

FEATURES:

- Serrated mounting surface prevents turning
- Captivated thumb nut
- .086 (2.18) accommodates up to 12 gauge wire
- Nylon UL approved for self-extinguishing

†Avoid user injury due to misapplication. See safety advisory definitions inside front cover.

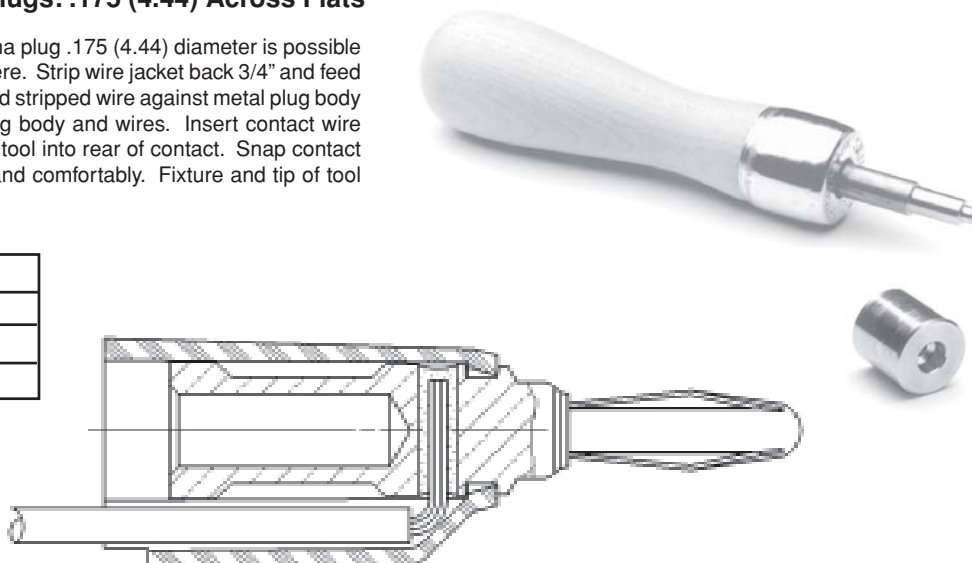


Assembly Tools and Fixtures (108-108X-001 Series)

For Standard Stacking Banana Plugs: .175 (4.44) Across Flats

Quick and easy assembly of standard banana plug .175 (4.44) diameter is possible with the assembly tool and fixtures shown here. Strip wire jacket back 3/4" and feed wire through cross hole of metal contact. Fold stripped wire against metal plug body and slide insulated handle over banana plug body and wires. Insert contact wire into housing. Place into fixture. Push tip of tool into rear of contact. Snap contact into place. Handle of tool is curved to fit hand comfortably. Fixture and tip of tool made from tool steel.

FIXTURE PART NO.
251-0111-003
TOOL PART NO.
251-0115-002

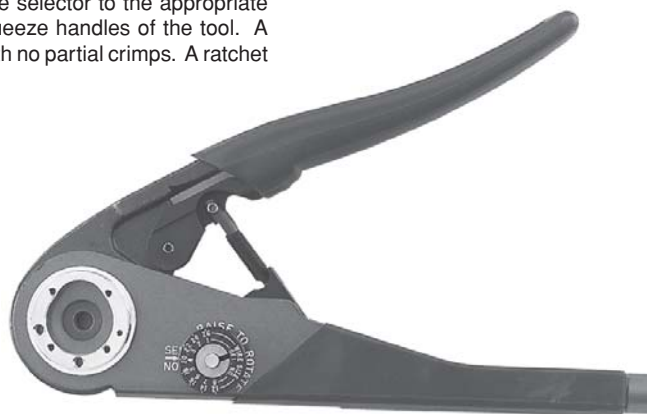


Crimp Tool (105-077X-XXX Series)

For Insulated Standard Small Handle Tip Plugs: .080 (2.00) Diameter and .060 (1.50) Tip Jacks

Quick and easy assembly of standard small handle tip plug .080 (2.00) diameter and .060 (1.50) tip jack is possible with the assembly tool shown. Set the selector to the appropriate wire size, strip wire to .180, insert wire and tip plug in tool, squeeze handles of the tool. A complete and accurate crimp is obtained each and every time, with no partial crimps. A ratchet insures a complete cycle of the tool.

TOOL PART NO.
144-0000-910
ASTRO TOOL PART NO.
615708
MILITARY PART NO.
M22520/1-01



Tube Sockets

Power Type	279
Wafer Type	279
Septar Type	280

Johnson sockets are designed to provide secure retention of the tube and positive, low-resistance contact between the tube pins and socket contacts for our customers who use tubes for lack of a reliable high power RF semi-conductor.

Ordering Information: For a numerical index of the complete electronic hardware product line, refer to page 289.

Each product listing in this section includes mechanical drawings and part numbering information. Material, mechanical and electrical specifications are listed for each item.

To Order: When you have determined the part number for the tube socket you require, contact one of our distributors for the socket you need. If you don't know the name of your local distributor or if you have special requirements, call 1-800-247-8256.

Power Type

Power Tube Socket

SPECIFICATIONS

Housing: Brass per QQ-B-626D .0001" nickel plated

Insulator: Glass base silicone

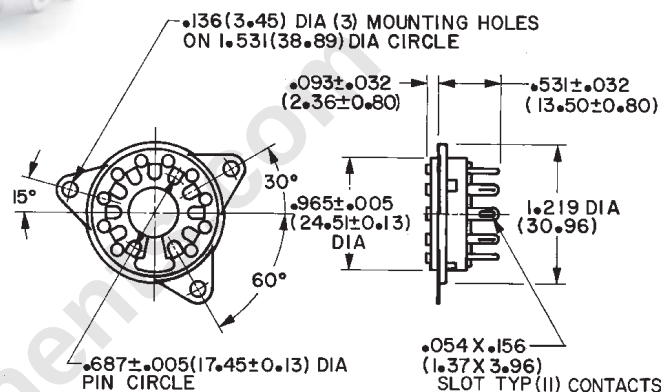
Contacts: Beryllium copper (heat treated)
per QQ-C-533, .0001" silver plated

FEATURES:

- Raised pads for excellent base pin cooling
- For tubes such as RCA 8072, 8121 and 8122

Description:

For ultra high frequency tubes. Also suitable for use with CRT tubes 1EP1 and 1EP11 with E.I.A. base no. E11-22. Base material has low dielectric constant which results in low pin-to-pin and shunt capacity. Continuous heat resistance to 500° F. Mounting lugs provide low inductance grounding. Three point mounting stability. Eleven pin configuration.



PART NO.

124-0311-100 (Industrial Grade)

Wafer Type

Giant: 5-Pin Configuration

SPECIFICATIONS

Base: L-423 steatite, DC-200 treated

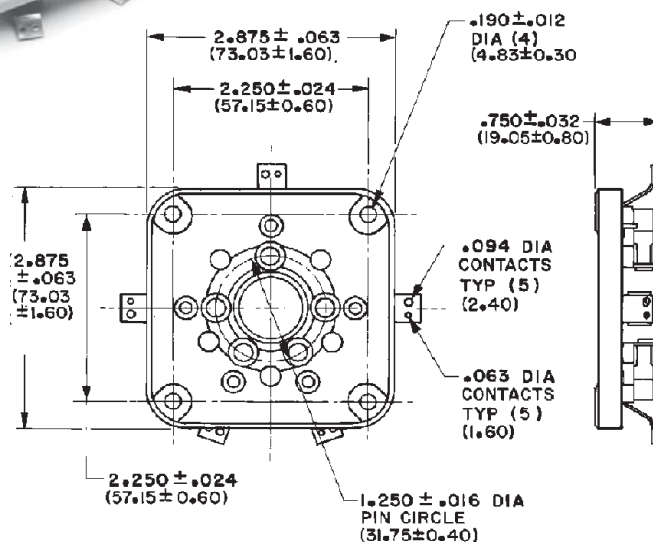
Contacts: Brass per QQ-B-626D, with steel springs
per QQ-S-777, .0001" nickel plated

FEATURES:

- Ventilating holes to provide tube seal cooling
- Sub-panel mounting possible with countersunk rivets and bossed mounting holes

Description:

Heavy duty steatite insulate wafer type socket. For tubes such as 4-125A, 4-250A, and RK-48 with E.I.A. base no. A5-19. Standard five pin configuration.



PART NO.

122-0275-001 (Commercial Grade)

Septar Type

7-Pin Configuration

SPECIFICATIONS

Base: L-423 steatite, DC-200 treated

Shell: Aluminum per QQ-A-200/8, iridated

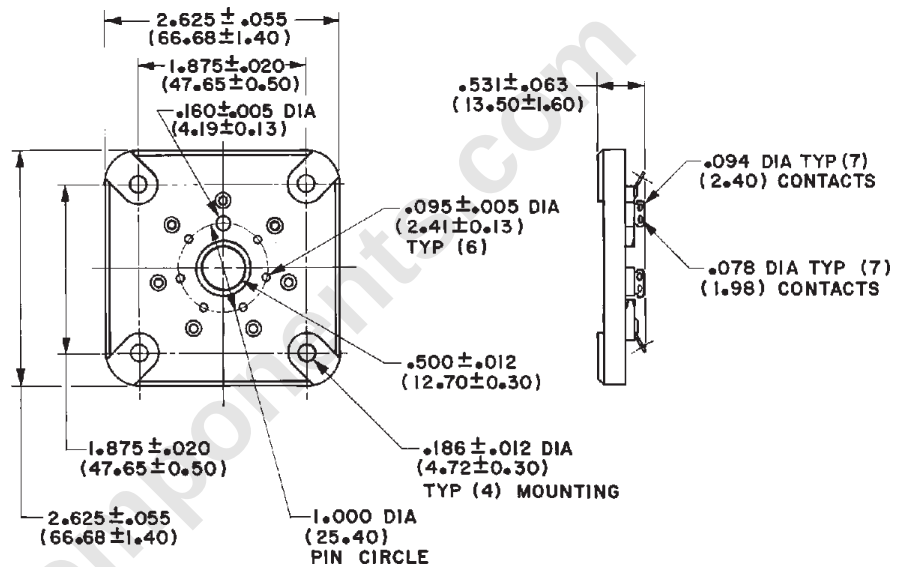
Contacts: Phosphor bronze per QQ-B-750, with beryllium copper springs per QQ-C-533, .0005" silver plated

FEATURES:

- Securely holds tube
- Positive, low resistance contact between tube pins and socket contacts

Description:

Designed for 7-pin tubes with E.I.A. base no. E7-2 such as the 7094.



PART NO.

122-0247-202 (Military Grade)

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ADC	EMERSON	AEP	EMERSON	AEP	EMERSON	AMP	EMERSON	AMP	EMERSON
BNC-1	CPMC-68-35	2010-1511-000	131-1701-371	9043-1523-002	142-0402-101	222165-2	CP-AD503	228216-1	131-3701-416
BNC-2	CPMC-68-2	2010-1511-000	131-3701-301	9043-1523-003	142-0403-101	222319-1	CP-AD512	228226-1	CP-AD556
BNC-3	CPMC-68-33	2010-7511-000	131-1701-376	9043-1523-006	142-0407-101	222321-1	CP-AD809	228509-9	CP-625U
BNC-4	CPMC-68-3	2010-7511-000	131-3701-306	9044-9513-000	142-1701-606	222428-1	CPFI-UG89-2	3-227079-0	CPMC-88-5
BNC-6	CPMC-68-10	2018-1511-001	131-3701-801	9044-9513-001	142-1701-616	222506-2	CPMC-TNC-2	3-227079-1	CPMC-88-5
BNC-6	CPMC-68-50	2018-7511-001	131-3701-806	9045-9513-000	142-1701-506	222506-4	CPMC-TNC-13	3-227079-2	CPMC-88-5
BNC-7	CPMC-68-18	2019-1511-000	131-3701-411	9045-9513-001	142-1701-516	225395-1	CPMC-88-1	3-227079-7	CPMC-88-14
BNC-8	CPMC-68-45	2019-7511-000	131-3701-416	9046-9513-000	142-1801-606	225395-2	CPMC-88-2	3-227086-6	CPN-1
BNC-10	CPMC-68-36	2025-1511-000	131-3801-201	9046-9513-001	142-1801-616	225395-5	CPMC-88-1	329517	CP-AD503
BNC-13	CPMC-68-34	2025-7511-000	131-3801-216	9048-9513-000	142-1701-626	225395-6	CPMC-88-13	329518	CP-AD505
		2042-1511-000	131-1801-371	9049-9513-000	142-1701-526	225395-7	CPM-88-19	330024	CP-AD556
AEP	EMERSON	2042-1511-000	131-3801-301	9050-9513-000	142-1801-626	225395-8	CPM-88-20	331350	CPMC-88-2
204	131-3701-401	2042-7511-000	131-1801-376	9074-9513-000	142-1701-576	225395-9	CPMC-88-14	4-227079-1	CPMC-88-1
209	131-1701-201	2042-7511-000	131-3801-316	9076-1113-000	142-1701-011	225532-1	142-0407-016	4-227079-3	CPMC-88-1
209	131-3701-201	2105-1521-002	131-1402-101	9076-9113-000	142-1701-016	225532-9	142-0407-016	4-227079-9	CPMC-88-10
210	131-1701-371	2105-1521-002	131-3402-101	9079-9513-000	142-1701-556	225542-1	142-0307-016	4-331350-0	CPMC-88-3
210	131-3701-301	2105-1521-003	131-1403-101	9079-9513-001	142-1701-566	225608-9	142-0307-416	413592-2	CP-AD505
219	131-3701-411	2105-1521-003	131-3403-101	9101-1573-003	142-0403-001	225609-1	142-0407-101	413592-9	CP-AD505
222	131-3901-401	2105-7521-002	131-1402-116	9130-1573-002	142-0302-401	225609-4	142-0403-101	413771-3	CP-89-19-BM1
225	131-3801-201	2105-7521-002	131-3402-116	9130-1573-003	142-0303-401	225661-2	CPN-1	414160-7	CPN-68-13
242	131-1801-371	2105-7521-003	131-1403-116	9130-1573-006	142-0307-401	225886-4	CPMC-88-26	414160-9	CPN-68-1
242	131-3801-301	2105-7521-003	131-3403-116	9201-1553-002	142-0202-011	226279-1	CPL-259-1	414168-3	CP-TNC-89-19-BM
1-104	131-6701-401	2110-1511-000	131-3701-341	9201-1553-003	142-0203-011	226279-2	CPL-259-8	414265-1	CPFI-UG88-1
1-109	131-6701-201	2110-7511-000	131-3701-346	9201-1553-006	142-0207-011	226279-3	CPL-259-2	414265-3	CPFI-UG89-2
1-110	131-6701-301	218/063	131-3701-801	9230-1553-002	142-0102-401	226600-1	MINI-UHF-1	414265-4	CPFI-UG88-10
1-119	131-6701-411	2484-1511-000	131-3701-631	9230-1553-003	142-0103-401	227000-5	CPMC-TNC-1	414265-5	CPFI-UG88-3
1-302/188	131-6403-001	2484-7511-000	131-3701-636	9243-1553-002	142-0202-101	227000-7	CPMC-TNC-2	414311-1	CP-AD506
1-303/188	131-6303-401	401/188	131-3303-001	9243-1553-003	142-0203-101	227079-1	CPMC-88-1	414414-1	CP-AD555
1-305/188	131-6403-101	401/196	131-3302-001	9243-1553-006	142-0207-101	227079-2	CPMC-88-13	414459-1	CP-BNC-PC-016
1002-1571-003	131-6403-001	402/188	131-1403-001	9301-1063-109	142-0694-021	227079-3	CPMC-88-2	414580-2	CPFI-UG88-1
1002-7571-003	131-6403-006	402/188	131-3403-001	9304-1113-013	142-1701-191	227079-5	CPMC-88-1	414580-3	CPFI-UG89-2
1003-1571-003	131-6303-401	402/196	131-3402-001	9304-9113-013	142-1701-196	227079-7	CPMC-88-2	414580-5	CPFI-UG88-10
1003-7571-003	131-6303-406	405/188	131-1403-101	9308-1113-001	142-1701-201	227079-9	CPMC-88-1	414586-1	CPMC-88-1
1004-1511-000	131-6701-401	405/188	131-3403-101	9308-9113-001	142-1701-206	227632-1	131-6701-406	414586-5	CPMC-88-1
1004-7511-000	131-6701-406	405/196	131-1402-101	9401-1083-010	142-0693-001	227633-1	131-6701-416	414666-1	CP-AD503
1009-1511-000	131-6701-201	405/196	131-3402-101	9401-1083-109	142-0694-001	227677-1	CP-BNC-PC-009	51751-1	131-6303-401
1009-7511-000	131-6701-206	5222-1501-000	131-3901-401	9402-1083-009	142-0594-001	227726-3	CP-AD520	51751-3	131-6303-401
1010-1511-000	131-6701-301	5222-7501-000	131-3901-406	9402-1083-010	142-0593-001	227754-1	CP-1094-U	51753-1	131-6403-101
1019-1511-000	131-6701-411	5909-1103-000	142-0901-401	9404-1113-000	142-0701-631	227754-2	CP-1094-U	51753-4	131-6403-101
1019-7511-000	131-6701-416	5917-1103-000	142-0901-801	9408-1113-000	142-0701-621	227754-3	CP-1094-U	5-227079-8	CPMC-88-3
1105-1521-003	131-6403-101	5918-1103-000	142-0901-811	9412-1113-000	142-0701-401	227945-2	CP-AD850	5-331350-3	CPMC-88-2
1105-7521-003	131-6403-106	9001-1023-001	142-0408-011	9413-1113-000	142-0701-411	227945-5	CP-AD850	5801-7985-63	133-3693-001
1110-1511-000	131-6701-341	9001-1023-003	142-0403-011	9424-1513-000	142-0701-701	227839-1	CP-TNC-PC-002	5818-5002-10	142-0003-236
1110-7511-000	131-6701-346	9001-1023-006	142-0407-011	9424-9513-000	142-0701-706	228226-3	CP-AD556	5818-5003-10	142-0003-246
2001-1571-002	131-3302-001	9001-1023-019	142-0404-011	9453-1083-009	142-0594-401	227984-1	CPFI-UG88-2	5818-5005-10	142-0002-226
2001-1571-003	131-3303-001	9001-9023-001	142-0408-016	9453-1083-010	142-0593-401	228026-2	131-6402-006	5831-5002-10	133-3402-006
2001-7571-002	131-3302-006	9001-9023-003	142-0403-016	9504-9113-009	142-1701-546	228026-3	131-6403-006	5831-5003-10	133-3403-006
2001-7571-003	131-3303-006	9001-9023-006	142-0407-016	9504-9113-031	142-1701-536	228028-1	131-6303-406	5837-5002-10	133-3402-106
2002-1541-010	131-3693-001	9001-9023-019	142-0404-016	9508-9113-001	142-1701-646	228028-3	131-6303-406	5837-5003-10	133-3403-106
2002-1571-002	131-3402-001	9002-1023-003	142-0303-011	9508-9113-002	142-1701-636	228030-1	131-6403-106	5837-5010-63	133-3403-101
2002-1571-003	131-1403-001	9002-1023-006	142-0307-011	9576-9113-001	142-1701-586	228030-2	131-6402-106	5862-5002-10	133-3701-216
2002-1571-003	131-3403-001	9002-1023-019	142-0304-011	9576-9113-003	142-1701-596	228030-3	131-6403-106	5862-5003-10	133-3701-206
2002-7541-010	131-3693-016	9002-9023-001	142-0308-016	9609-1513-000	142-0701-531	228212-1	131-1701-206	5862-5004-10	133-3701-226
2003-1541-010	131-3593-401	9002-9023-003	142-0303-016	9609-9513-000	142-0701-536	228212-1	131-3701-206	5863-0000-10	133-3801-201
2003-7541-010	131-3593-406	9002-9023-006	142-0307-016	9649-1113-000	142-0801-201	228213-1	131-1403-016	5864-5001-10	133-3701-306
2004-1511-000	131-3701-401	9002-9023-019	142-0304-016	9650-1113-000	142-0701-201	228213-1	131-3403-016	5864-5002-10	133-3701-326
2004-7511-000	131-3701-406	9030-0123-001	142-0308-411			228213-2	131-3402-016	5864-5003-10	133-3701-316
2005-1541-010	131-1693-101	9030-1023-003	142-0303-411	AMP	SEE TYCO/AMP	228213-3	131-1403-016	6-227079-0	CPMC-88-13
2005-1541-010	131-3693-101	9030-1023-006	142-0307-411	AMP	EMERSON	228213-3	131-3403-016	6-227079-1	CPMC-88-13
2005-7541-010	131-3693-116	9030-1023-019	142-0304-411	221984-1	CPFI-UG88-2	228214-1	131-1403-116	6-227079-2	CPMC-88-13
2009-1511-000	131-1701-201	9030-9023-001	142-0308-416	221984-5	CPFI-UG88-3	228214-1	131-3403-116	6-227079-5	CPMC-88-5
2009-1511-000	131-3701-201	9030-9023-003	142-0303-416	221984-7	CPFI-UG88-1	228214-2	131-1402-116	6-227079-7	CPMC-88-11
2009-7511-000	131-1701-206	9030-9023-006	142-0307-416	221984-7	CPFI-UG88-1	228214-2	131-3402-116	BNC58HPC	CPMC-88-1
2009-7511-000	131-3701-206	9030-9023-019	142-0304-416	221988-1	CP-AD506	228215-1	131-3701-406	BNC58J	CP-89-1

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

AMP	EMERSON	AMPHENOL	EMERSON	AMPHENOL	EMERSON	AMPHENOL	EMERSON	AMPHENOL	EMERSON
BNC58PC	CPMC-88-1	31-221	CP-1094U	31-70235	CPMC-68-3	901-168	CP-AD311	901-B2501-519	CP-AD507
BNC58PP	CPMC-88-11	31-221-RFX	CP-1094U	31-70236	CPMC-68-18	901-191	142-0901-401	901-B2501-520	CP-AD508
BNC58PTV	CPFI-UG-88-1	31-2218	CP-AD511	31-70237	CPMC-68-35	901-255	142-0102-401	903-284-52S	131-6403-001
BNC59HPC	CPMC-88-2	31-2221	CP-1094U	31-70238	CPMC-68-33	901-256	142-0103-401	903-285P-51S	131-1403-001
BNC59J	CP-89-2	31-2242-RFX	CPM-TNC-19	31-71008	CPMC-78-2	901-276	142-0901-821	903-285P-51S	131-3403-001
BNC59JTW	CPFI-UG89-2	31-2315-RFX	CPM-TNC-19	31-71008-2000	CPMC-78-10	901-281	142-0202-011	903-287P-51S	131-3402-001
BNC59P	CPMC-88-2	31-2318-RFX	CP-TNC-89-19-BM	31-71008-RFX	CPMC-78-2	901-292	CP-AD817	903-288P-52A	131-6403-101
BNC59PC	CPMC-88-2	31-236	CP-1094U	31-71013	CPMC-68-20	901-293	CP-AD818	903-289P-51A	131-1403-101
BNC59PC75	CPMC-78-2	31-2367-RFX	CPMC-TNC-1	31-71032	CPMC-78-3	901-294	CP-AD810	903-289P-51A	131-3403-101
BNC59PP	CPMC-88-10	31-2368-RFX	CPMC-TNC-1	31-71042-RFX	CP-BNCPC-012	901-295	CP-AD819	903-291P-51A	131-1402-101
BNC59PPC	CPMC-88-10	31-2373	CPMC-TNC-13	31-71043-RFX	CP-BNCPC-010	901-302	142-0901-801	903-291P-51A	131-3402-101
BNC59PTW	CPFI-UG88-2	31-242	CPM-88-20	31-71047-10-RFX	CP-BNCPC-016	901-303	142-0901-811	903-305J-51R	131-3701-401
BNC59PTWP	CPFI-UG88-10	31-242-RFX	CPM-88-20	31-71058-RFX	CP-BNCPC-008	901-367	142-0202-101	903-373J-51A	131-1701-371
BNC8281HPS	CPMC-88-3	31-245-RFX	CP-79-20-BM1	31-8	CP-AD505	901-9183-1	142-0694-031	903-373J-51A	131-3701-301
BNCBHS	CP-AD556	31-28	CP-AD500	31-830	CP-AD809	901-9201-2A	142-0693-001	903-376J-51A	131-3701-341
BNCILS	CP-AD555	31-315	CPM-88-19	31-9	CP-AD503	901-9202-1A	142-0594-001	903-402J-51R	131-3701-411
BNCISJ	CP-AD520	31-315-RFX	CPM-88-19	31-9-RFX	CP-AD503	901-9202-2A	142-0593-001	903-407J-51R	131-3701-421
BNCTC	CP-AD505	31-318-RFX	CP-89-19-BM1	36650-3RFX1	CPMC-88-11	901-9207-1	142-0694-021	903-408J-52R	131-6701-411
F59PIC	CPF-59-1/4	31-320	CPMC-88-1	36650-RFX	CPMC-88-11	901-9210-1	142-0594-401	903-419J-52A	131-6701-341
NP8C	CP-N-1	31-320-1006	CPMC-88-11	37-71008-RFX	CPMC-78-2	901-9210-2	142-0593-401	903-420J-52P	131-6701-201
TNC58P	CPMC-TNC-1	31-320-RFX	CPMC-88-1	68175-1004	CPMC-88-2	901-9215	142-0701-631	903-422J-51A	131-3303-501
TNC58PC	CPMC-TNC-1	31-321	CPMC-88-2	68175-1005	CPMC-88-2	901-9220	142-0701-411	903-550P-51SX	131-1403-001
TNC59P	CPMC-TNC-2	31-321-1 RFX1	CPMC-88-2	68175-11-RFX	CPMC-88-10	901-9221-1A	142-0694-101	903-551P-52SX	131-6403-001
TNC59PC	CPMC-TNC-2	31-321-1000	CPMC-88-3	68175-5-RFX	CPMC-88-2	901-9221-2A	142-0693-101	903-552J-51SX	131-3303-001
TNCBHS	CP-AD356	31-321-RFX1	CPMC-88-2	68175-5RFX1	CPMC-88-2	901-9244-2	142-0701-621	903-555J-52SX	131-6303-401
TNCILS	CP-AD355	31-3220	CP-AD521	79100-NRFX	CP-AD356	901-9511-1	142-0408-011	903-556P-51AX	131-3403-101
		31-323	CPMC-88-14	81-115	MINI-UHF-1	901-9511-12SF	142-0404-016	903-557P-52AX	131-6403-101
		31-325	CPMC-88-18	81-115-RFX	MINI-UHF-1	901-9511-12SFC	142-0404-016	903-558P-51AX	131-1403-101
		31-326	CPMC-88-13	82-100	CP-AD800	901-9511-1S	142-0408-016	903-561P-51PX	131-3801-201
		31-326-RFX	CPMC-88-3	82-100-RFX	CP-AD800	901-9511-1SFC	142-0408-016	903-564J-52PX	131-6701-201
		31-4791	CP-AD355	82-101	CP-AD850	901-9511-3	142-0403-011	903-565P-51A	131-3801-301
		31-4791-RFX	CP-AD355	82-101-RFX	CP-AD850	901-9511-3SF	142-0403-016	903-566P-52A	131-6801-301
		31-4803	CP-AD521	82-24	CP-AD801	901-9511-3SFC	142-0403-016	903-567J-51A	131-3701-301
		31-4803-RFX	CP-AD580	82-36	CP-AD803	901-9531-3	142-0403-101	903-568J-52A	131-6701-301
		31-5136	CPFI-UG88-2	82-4352-1	CPN-8	901-9867-RFX	142-0693-001	903-569J-51RX	131-3701-411
		31-5136-RFX	CPFI-UG88-2	82-4426-11-RFX	CPN-8	901-9868-RFX	142-0694-001	903-570J-52RX	131-6701-411
		31-5137	CPFI-UG88-1	82-5375	CPN-1	901-9876-RFX	142-0407-011	903-571J-51RX	131-3701-401
		31-5137-RFX	CPFI-UG88-1	82-5375-RFX	CPN-1	901-9877-RFX	142-0403-011	903-572J-52RX	131-6701-401
		31-5138	CPFI-UG89-2	82-5380	CPN-2	901-9879-RFX	142-0303-411	908-21103	135-3801-201
		31-5141	CPMC-88-18	82-61	CPN-8	901-9880-RFX	142-0407-101	908-22100	135-3711-801
		31-5151	CPFI-UG88-3	82-64	CP-AD803	901-9881-RFX	142-0403-101	908-24100	135-3701-301
		31-5156	CPMC-88-2	82-97-RFX	CP-AD801	901-9889-RFX	142-0701-411	908-41200	135-3402-001
		31-5157	CPMC-TNC-2	83-15P-15-RFX	CP-AD250	901-9890-RFX	142-0701-401	908-41300	135-3403-001
		31-5369-RFX	CPFI-UG88-10	83-1F	CP-AD207	901-9891-RFX	142-1701-131	908-41500	135-3404-001
		31-5493-RFX	CP-BNCPC-007	83-1J	CP-AD204	901-9892-RFX	142-0701-631	908-42300	135-3303-001
		31-5556-RFX	CP-88-2	83-1J-RFX	CP-AD204	901-9893-RFX	142-0701-621	908-43200	135-3402-101
		31-5557-RFX	CP-88-1	83-1R	CP-AD206	901-9894-RFX	142-0801-301	908-43300	135-3403-101
		31-5558-RFX	CPMC-88-5	83-1R-RFX	CP-AD206	901-9895-RFX	142-0801-201	908-43400	135-3693-101
		31-5560-RFX	CP-88-10	83-58FCP-RFX	CPL-259-1	901-9940-RFX	142-0694-011	908-43500	135-3404-101
		31-5633	CP-BNCPC-005	83-58SCP	CPL-259-1	901-9943-RFX	142-0593-001	BNC-AAPJ	CP-AD503
		31-5640-RFX	CP-BNCPC-009	83-58SCP-RFX	CPL-259-1	901-9944-RFX	142-0594-001	BNC-AS-JJ	CP-AD555
		31-5888-RFX	CP-TNC-PC-002	83-59DCP	CPL-259-2	901-9945-RFX	142-0593-401	BNC-PC2C-P5962	CP-88-10
		31-5893-RFX	CP-AD355	83-59DCP-RFX	CPL-259-2	901-9946-RFX	142-0594-401	BNC-PS2C-58	CP-88-1
		31-5900	CPMC-88-21	83-85P	CPL-259-8	901-9951-RFX	142-0693-101	BNC-PS2C-5962	CP-88-2
		31-5912-RFX	CPMC-88-19	83-85P-RFX	CPL-259-8	901-9952-RFX	142-0694-101	BNC-PS3C-174	CPM-88-19
		31-5913-RFX	CPMC-78-20	901-164	CP-AD582	901-9953-RFX	142-0307-011	BNC-PS3C-P5962	CPMC-88-10
		31-5976-50-RFX	CP-BNCPC-001	901-165	CP-AD583	901-9954-RFX	142-0303-011	BNC-PS3C-PL58	CPMC-88-11
		31-5980-RFX	CP-AD558	901-166	CP-AD508	901-9955-RFX	142-0307-411	BNC-TJPJ	CP-AD505
		31-6-RFX	CP-BNC-CAP-1	901-130	142-0207-101	901-9978-RFX	142-1701-511	TNC-A5-JJ	CP-AD355
		31-70008	CPMC-68-2	901-140	142-0203-101	901-9979-RFX	142-1701-611	TNC-PS3C-58	CPMC-TNC-1
		31-70008	CPMC-78-2	901-143-6RFX	142-0701-301	901-9984-RFX	142-0901-811	TNC-PS3C-5962	CPMC-TNC-2
		31-70036	CP-AD705	901-144-8RFX	142-0701-201	901-9985-RFX	142-0901-801		
		31-70222	CPMC-78-3	901-149	142-0407-101	901-9986-RFX	142-0901-401		
		31-70234	CPMC-68-45	901-155	142-0403-001	901-9987-RFX	142-0901-821		
								ANRITSU	EMERSON
								K100B	142-1000-033

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

ANRITSU	EMERSON	BERG	EMERSON	CABLEWAVE	EMERSON	CDI/TENSOLITE	EMERSON	CDI TENSOLITE	EMERSON
K101M-85	145-0693-002	BERG	EMERSON	700218	131-3801-301	5607-4CC-SF	142-1801-556	5980-1CC-SF	142-1701-546
K102F	145-0701-002	32AS100-1	131-3901-401	700306	131-6403-001	5607-5CC	142-1801-561	5980-2CC	142-1701-531
K103F	145-0701-602	32J102-1	131-3303-001	700311	131-6303-401	5607-5CC-SF	142-1801-566	5980-2CC-SF	142-1701-536
K104F	145-0701-612	32JR104-1	131-3701-401	700326	131-6403-101	5607-6CC	142-1801-571	5980-4CC	142-1701-501
AUTOMATIC	EMERSON	32JR107-1	131-3701-201	700400	131-3303-001	5607-6CC-SF	142-1801-576	5980-4CC-SF	142-1701-506
3301-640-919	142-0403-001	32JR110-1	131-3701-411	700401	131-3302-001	5608-2CC	142-1801-531	5980-5CC	142-1701-511
3301-940-801	142-0202-011	32JR111-1	131-3701-301	700405	131-1403-001	5608-2CC-SF	142-1801-536	5980-5CC-SF	142-1701-516
3301-940-819	142-0203-011	32JR122-1	131-3701-341	700405	131-3403-001	5663-2CC	142-1701-631	5980-6CC	142-1701-521
3301-940-888	142-0207-011	32JR189-1	131-3711-201	700406	131-3402-001	5663-2CC-SF	142-1701-636	5980-6CC-SF	142-1701-526
3302-640-901	142-0402-101	32P100-1	131-1403-001	700425	131-1403-101	5663-4CC	142-1701-601	5981-1CC	142-1701-641
3302-640-980	142-0407-101	32P100-6	131-3402-001	700425	131-3403-101	5663-4CC-SF	142-1701-606	5981-1CC-SF	142-1701-646
3302-940-801	142-0202-101	32P111-1	131-1403-101	700426	131-1402-101	5663-5CC	142-1701-611	5981-2CC	142-1701-631
3302-940-819	142-0203-101	32P111-13	131-1402-101	700426	131-3402-101	5663-5CC-SF	142-1701-616	5981-2CC-SF	142-1701-636
3302-940-888	142-0207-101	32PR103-1	131-3801-201	700466	131-3693-001	5663-6CC	142-1701-621	5981-4CC	142-1701-601
3307-640-901	142-0302-401	32PR104-1	131-3801-301	700473	131-1693-101	5663-6CC-SF	142-1701-626	5981-4CC-SF	142-1701-606
3307-640-919	142-0303-401	37JR101-1	131-6701-411	700473	131-3693-101	5664-2CC	142-1801-631	5981-5CC	142-1701-611
3307-940-801	142-0102-401	37JR104-2	131-6701-201	CDI/TENSOLITE	EMERSON	5664-2CC-SF	142-1801-636	5981-5CC-SF	142-1701-616
3307-940-819	142-0103-401	37JR108-1	131-6701-401	201-1CC	145-0694-001	5664-4CC	142-1801-601	5981-6CC	142-1701-621
E-3301-042-104	142-0694-001	37JR110-1	131-6701-301	201-1CCSF	145-0694-002	5664-4CC-SF	142-1801-606	5981-6CC-SF	142-1701-626
E-3301-044-104	142-0694-031	37JS102-1	131-6303-401	201-2CC	145-0693-001	5664-5CC	142-1801-611	5982-1CC	142-1801-541
E-3301-044-124	142-0693-001	37P104-1	131-6403-101	201-2CCSF	145-0693-002	5664-5CC-SF	142-1801-616	5982-1CC-SF	142-1801-546
E-3302-045-919	142-0403-101	37P106-1	131-6403-001	201-2CCSF	145-0693-002	5664-6CC	142-1801-621	5982-2CC	142-1801-531
E-3306-942-104	142-0594-001	37T100-1	142-0003-301	204CC	145-0701-001	5664-6CC-SF	142-1801-626	5982-2CC-SF	142-1801-536
E-3306-942-124	142-0593-001	39JR128-5	142-0701-301	223CC	145-0901-811	5665-2CC	142-1701-531	5983-1CC	142-1801-641
E-3307-962-104	142-0594-401	39JR359-1	142-0701-201	224CC	145-0901-801	5665-2CC-SF	142-1701-536	5983-1CC-SF	142-1801-646
E-3307-962-124	142-0593-401	39JR363-1	142-0701-876	225CC	145-0901-821	5665-4CC	142-1701-501	5983-2CC	142-1801-631
E-3337-945-000	142-0701-401	39JR364-1	142-0701-506	230CC	145-0701-611	5665-4CC-SF	142-1701-506	5983-2CC-SF	142-1801-636
E-3341-000-000	142-0701-631	39JR364-2	142-0701-501	230CCSF	145-0701-612	5665-5CC	142-1701-511	5983-4CC	142-1801-601
E-3341-960-100	142-0701-621	69JR100-2	135-3701-201	231CC	145-0701-601	5665-5CC-SF	142-1701-516	5983-4CC-SF	142-1801-606
E-3352-960-000	142-0901-811	69JR101-2	135-3701-301	231CCSF	145-0701-602	5665-6CC	142-1701-521	5983-5CC	142-1801-611
E-3353-000-000	142-0901-821	69JR103-2	135-3711-801	240CCSF	145-0701-002	5665-6CC-SF	142-1701-526	5983-5CC-SF	142-1801-616
E-3356-000-000	142-0901-801	69P101-2	135-3801-201	5602-2CC	142-1701-631	5666-2CC	142-1801-531	5983-6CC	142-1801-621
E-3357-040-000	142-0901-401	69P103-4	135-3404-001	5602-2CC-SF	142-1701-636	5666-2CC-SF	142-1801-536	5983-6CC-SF	142-1801-626
H-4601-004-919	131-6403-001	69P103-6	135-3403-001	5602-4CC	142-1701-601	5850-1CC	142-0693-101	COAXIM	EMERSON
H-4602-045-919	131-6403-101	69P104-3	135-3403-101	5602-4CC-SF	142-1701-606	5850-2CC	142-0694-101	3130-12-1	142-1701-601
H-4607-004-919	131-6303-401	69P104-4	135-3404-101	5602-5CC	142-1701-611	5937-2CC	142-1701-581	3130-12-9	142-1701-606
H-4632-000-000	131-6701-411	69P104-6	135-3402-101	5602-5CC-SF	142-1701-616	5937-2CC-SF	142-1701-586	3130-15-1	142-1701-611
H-4637-000-000	131-6701-401	BIRNBACH	EMERSON	5602-6CC	142-1701-621	5937-4CC	142-1701-551	3130-15-9	142-1701-616
H-4695-000-000	131-6701-201	400	108-0750-001	5602-6CC-SF	142-1701-626	5937-4CC-SF	142-1701-556	3130-18-1	142-1701-621
H-4697-000-000	131-6701-301	401	108-0753-001	5603-2CC	142-1701-581	5937-5CC	142-1701-561	3130-18-9	142-1701-626
H-6491-000-703	131-3701-631	406	108-0745-101	5603-2CC-SF	142-1701-586	5937-5CC-SF	142-1701-566	3130-20-1	142-1701-631
H-6901-004-919	131-1403-001	414	108-0750-002	5603-4CC	142-1701-551	5937-6CC	142-1701-571	3130-20-9	142-1701-636
H-6901-004-919	131-3403-001	1160	108-030X-001	5603-4CC-SF	142-1701-556	5937-6CC-SF	142-1701-576	3130-36-1	142-1701-641
H-6901-045-125	131-3693-001	1164	108-030X-001	5603-5CC	142-1701-561	5938-4CC	142-1801-551	3130-36-9	142-1701-646
H-6902-040-125	131-1693-101	1169	108-030X-001	5603-5CC-SF	142-1701-566	5938-4CC-SF	142-1801-556	12/1/31	142-1701-501
H-6902-040-125	131-3693-101	400A	108-0750-001	5603-6CC	142-1701-571	5938-5CC	142-1801-561	12/9/31	142-1701-506
H-6902-045-901	131-1402-101	CABLEWAVE	EMERSON	5603-6CC-SF	142-1701-576	5938-5CC-SF	142-1801-566	3131-15-1	142-1701-511
H-6902-045-919	131-1403-101	700012	131-6701-401	5604-2CC	142-1701-531	5938-6CC	142-1801-571	3131-15-9	142-1701-516
H-6902-045-919	131-3403-101	700013	131-6701-401	5604-2CC-SF	142-1701-536	5938-6CC-SF	142-1801-576	3131-18-1	142-1701-521
H-6906-004-901	131-3302-001	700015	131-6701-411	5604-4CC	142-1701-501	5941-2CC	142-1701-581	3131-18-9	142-1701-526
H-6906-004-919	131-3303-001	700015	131-6701-411	5604-4CC-SF	142-1701-506	5941-2CC-SF	142-1701-586	3131-20-1	142-1701-531
H-6907-045-125	131-3593-401	700053	131-6701-201	5604-5CC	142-1701-511	5941-4CC	142-1701-551	3131-20-9	142-1701-536
H-6932-000-000	131-3701-411	700056	131-6701-301	5604-5CC-SF	142-1701-516	5941-4CC-SF	142-1701-556	3131-36-1	142-1701-541
H-6937-000-000	131-3701-401	700166	131-3701-411	5604-6CC	142-1701-521	5941-5CC	142-1701-561	3131-36-9	142-1701-546
H-6957-000-000	131-3901-401	700169	131-3701-401	5604-6CC-SF	142-1701-526	5941-5CC-SF	142-1701-566	3131K-12-1	142-1701-551
H-6991-000-000	131-3801-201	700178	131-3593-401	5606-2CC	142-1801-631	5941-6CC	142-1701-571	3131K-12-9	142-1701-556
H-6993-000-000	131-1801-371	700188	131-3901-401	5606-2CC-SF	142-1801-636	5941-6CC-SF	142-1701-576	3131K-15-1	142-1701-561
H-6995-000-000	131-1701-201	700209	131-1701-201	5606-4CC	142-1801-601	5942-4CC	142-1801-551	3131K-15-9	142-1701-566
H-6995-000-000	131-3701-201	700209	131-3701-201	5606-4CC-SF	142-1801-606	5942-4CC-SF	142-1801-556	3131K-18-1	142-1701-571
H-6997-000-000	131-1701-371	700213	131-3801-201	5606-5CC	142-1801-611	5942-5CC	142-1801-561	3131K-18-9	142-1701-576
H-6997-000-000	131-3701-301	700214	131-1701-371	5606-5CC-SF	142-1801-616	5942-5CC-SF	142-1801-561	3131K-20-1	142-1701-581
SI333-2704-308	142-0701-411	700214	131-3701-301	5606-6CC	142-1801-621	5942-6CC	142-1801-571	3131K-20-9	142-1701-586
		700218	131-1801-371	5606-6CC-SF	142-1801-626	5942-6CC-SF	142-1801-576	3310-20-1	142-1801-531
				5607-4CC	142-1801-551	5980-1CC	142-1701-541		

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

HUBER-SUHNER	EMERSON
11MCX-50-2-10	133-3403-001
11MCX-50-1-10	133-3402-001
11MCX-50-2-3	133-3693-001
11MMCX-50-1-1	135-3402-001
11MMCX-50-1-2	135-3436-001
11SMA-50-2-42	142-0403-011
11SMA-50-2-65	142-0693-001
11SMA-50-3-42	142-0694-031
11SMA-50-3-64	142-0694-011
11SMA-50-3-65	142-0694-001
11SMB-50-2-13	131-3693-001
11SMB-50-1-10	131-3402-001
11SMC-50-2-10/11	131-6403-001
16MCX-50-1-5	133-3402-101
16MCX-50-2-5/11	133-3403-101
16MCX-50-2-5/133	133-3403-106
16MCX-50-2-3	133-3693-101
16MMCX-50-1-1	135-3402-101
16MMCX-50-1-2	135-3436-101
16MMCX-50-2-1	135-3693-101
16MMCX-50-2-4	135-3403-101
16MMCX-50-2-6	135-3404-101
16SMA-50-2-45	142-0403-101
16SMA-50-2-3	142-0693-101
16SMA-50-2-3	142-0694-101
16SMB-50-1-20	131-1402-101
16SMB-50-2-20	131-1403-101

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

HUBER-SUHNER	EMERSON	KEYSTONE	EMERSON	KEYSTONE	EMERSON	KINGS	EMERSON	KINGS	EMERSON
16SMC-50-2-20	131-6403-101	6018	105-0801-001	6094	108-0745-002	KA-59-230	CPMC-TNC-13	KC-59-616-MO6	CPMC-88-3
21MCX-50-1-10	133-3302-001	6019	105-0802-001	6095	108-0740-102	KA-59-231	CPMC-TNC-1	KC-59-632-MO6	CPMC-88-1
21MCX-50-2-10	133-3303-001	6020	105-0803-001	7004	111-0102-001	KA-59-232	CPMC-TNC-2	KC-59-655-MO6	CPMC-88-14
21MMCX-50-1-1	135-3302-001	6021	105-0804-001	7005	111-0103-001	KA-59-263	CPMC-TNC-2	KC-59-78	CPMC-88-1
21MMCX-50-1-2	135-3303-001	6022	105-0807-001	7006	111-0702-001	KA-59-265	CPMC-TNC-1	KC-59-79	CPMC-88-1
22MCX-50-0-2	133-3701-401	6023	105-0810-001	7007	111-0703-001	KA-59-287	CPMC-TNC-1	KC-59-80	CPMC-88-13
22SMA-50-0-44	142-0701-401	6024	105-0251-001	552-4	108-0754-001	KA-59-292	CPMC-TNC-13	KC-59-95	CPMC-88-19
22SMB-50-0-11	131-3701-421	6025	105-0252-001	6074-1	108-0750-001	KA-59-385-MO6	CPMC-TNC-2	KC-59-98	CPMC-88-1
22SMB-50-0-2	131-3701-411	6026	105-0253-001	6074-2	108-0750-002	KA-59-406-MO6	CPMC-TNC-1	KC-79-106	CP-1094-U
22SMB-50-0-3	131-3701-401	6030	105-0601-001	872-1	142-0594-401	KA-59-44	CPMC-TNC-1	KC-79-106	CP-1094-U
22SMC-50-0-2	131-6701-411	6031	105-0602-001	872-11	142-0302-401	KA-59-45	CPMC-TNC-13	KC-79-109	CP-AD519
22SMC-50-0-3	131-6701-401	6032	105-0603-001	872-12	142-0303-401	KA-59-46	CPMC-TNC-2	KC-79-121	CP-1094-U
23SMA-50-0-41	142-0701-621	6033	105-0604-001	872-8	142-0593-401	KA-59-57	CPMC-TNC-13	KC-79-123	CP-AD519
23SMA-50-0-44	142-0701-631	6034	105-0607-001	873-4	142-0594-001	KA-59-69	CPM-TNC-19	KC-79-131	CP-1094-U
23SMA-50-0-120	142-1701-201	6035	105-0610-001	873-9	142-0593-001	KA-59-86	CPMC-TNC-13	KC-79-132	CP-AD519
23SMA-50-0-122	142-1701-191	6036	105-0851-001	874-1	142-0701-401	KA-59-94	CPMC-TNC-2	KC-79-35	CP-1094-U
23SMA-50-0-170	142-1701-206	6037	105-0852-001	874-5	142-0701-411	KA-91-01	CP-AD355	KC-79-46	CP-1094-U
23SMA-50-0-172	142-1701-196	6038	105-0853-001	875-10-M09	142-0693-001	KA-91-05	CP-AD306	KC-99-20	CP-AD506
24MCX-50-1-10	133-3302-401	6039	105-0857-001	875-13	142-0403-001	KA-91-09	CP-AD355	KC-99-30	CP-AD555
24MCX-50-1-10	133-3303-401	6040	105-0854-001	875-4-M09	142-0694-031	KA-91-18	CP-AD300	KC-99-31	CP-AD505
24SMA-50-2-41	142-0593-401	6041	105-0860-001	875-8-M09	142-0694-001	KA-99-114-MO6	CP-AD356	KC-99-32	CP-AD511
24SMA-50-3-41	142-0594-401	6042	105-2201-201	876-1	142-0407-101	KA-99-59	CP-AD300	KC-99-33	CP-AD556
24SMC-50-2-10C/111	131-6303-401	6043	105-2202-201	876-6	142-0403-101	KA-99-62	CP-AD355	KC-99-34	CP-AD500
27SMA-50-0-1	142-0701-531	6044	105-2203-201	877-1	142-0701-631	KC-59-104	CPMC-88-13	KC-99-35	CP-AD503
27SMA-50-0-51	142-0701-536	6045	105-2207-201	877-2	142-0701-621	KC-59-107	CPMC-88-12	KC-99-37	CP-AD506
28SMA-50-0-1	142-0701-701	6046	105-2204-201	877-21	142-0701-301	KC-59-115	CPMC-88-13	KC-99-40	CP-AD521
28SMA-50-0-51	142-0701-706	6048	105-1101-001	879-13	142-0901-401	KC-59-116	CPMC-88-13	KC-99-42	CP-AD500
31MCX-50-0-1	133-3901-801	6049	105-1102-001	879-2-M09	142-0901-811	KC-59-123	CPMC-88-1	KC-99-44	CP-AD555
34SMB-50-0-2	131-3901-401	6050	105-1103-001	879-3	142-0901-801	KC-59-128	CPMC-88-2	KC-99-52	CP-AD505
81MCX-50-0-1	133-3801-201	6051	105-1107-001			KC-59-152	CPMC-88-19	KC-99-54	CP-AD521
81MMCX-50-0-1	135-3801-201	6052	105-1104-001	KINGS	EMERSON	KC-59-162	CPMC-88-13	KC-99-56	CP-AD511
81SMB-50-0-1/111	131-3801-201	6053	105-1110-001	1209-1-15-MA9	CP-AD810	KC-59-167	CPMC-88-13	KC-99-64	CP-AD505
82MCX-50-0-1/111	133-3701-201	6054	105-0751-001	1209-10	CP-AD803	KC-59-180	CPMC-88-3	KC-99-95-MO6	CP-AD556
82MCX-50-0-1/133	133-3701-206	6055	105-0752-001	1209-13	CP-AD850	KC-59-181	CPMC-88-3	KN-59-132	CPN-8
82MCX-50-0-10	133-3701-231	6056	105-0753-001	1209-18	CP-AD807	KC-59-223	CPMC-88-18	KN-59-204-MO6	CPN-1
82MCX-50-0-2	133-3701-201	6057	105-0757-001	1209-7	CP-AD809	KC-59-279	CPMC-88-13	KN-59-207	CP-AD802
82MMCX-50-0-1	135-3701-201	6058	105-0754-001	2025-36-9	CPMC-78-2	KC-59-290	CPMC-88-1	KN-59-273-MO6	CPN-2
82SMA-50-0-41	142-0701-201	6059	105-0760-001	2025-37-9	CPMC-78-3	KC-59-291	CPMC-88-1	KN-99-35	CP-AD809
82SMB-50-0-1/111	131-1701-201	6060	105-2201-105	2025-44-9	CPMC-68-33	KC-59-293	CPMC-88-1	KN-99-36	CP-AD809
82SMC-50-0-1	131-6701-201	6061	105-2202-105	2025-51-9	CPMC-78-2	KC-59-294	CPMC-88-2	KN-99-44	CP-AD800
83MCX-0-2-5	142-0003-231	6062	105-2203-105	2025-59-9	CPMC-78-2	KC-59-300	CPMC-88-3	KN-99-46	CP-AD807
83SMC-0-2-2	142-0003-201	6063	105-2207-105	2025-6-9-MO6	CPMC-78-2	KC-59-303	CPMC-88-13	KN-99-50	CP-AD850
84SMB-50-0-1	131-1801-371	6064	105-2204-105	2025-7-9	CPMC-78-3	KC-59-306	CPMC-88-18	KN-99-69	CP-AD803
85 MCX-50-0-1	133-3701-301	6066	105-2201-101	2029-16-5	CP-AD705	KC-59-307	CPMC-88-18	KU-59-22	CP-AD250
85MMCX-50-0-1	135-3701-301	6067	105-2202-101	2029-16-9	CP-AD705	KC-59-346	CPMC-88-13	KU-59-35	CPL-259-2
85SMA-50-0-44	142-0701-301	6068	105-2203-101	2029-17-9	CP-AD557	KC-59-347	CPMC-88-1	KU-59-48	CPL-259-8
85SMB-50-0-1	131-1701-371	6069	105-2207-101	2029-3-5	CP-AD705	KC-59-348	CPMC-88-1	KU-59-53	CPL-259-1
85SMC-50-0-1/111	131-6701-301	6070	105-2204-101	2065-1-9	CPMC-68-2	KC-59-362	CPMC-88-19	KU-99-08	CP-AD250
86SMC-50-2-2	142-0003-301	6072	108-0753-001	2065-2-9	CPMC-68-35	KC-59-397	CPMC-88-2	PL-259	CP-AD250
		6076	108-1002-001	2065-3-9	CPMC-68-50	KC-59-399	CPMC-88-13	UG-224/U	CP-AD207
		6077	108-1003-001	2065-5-9	CPMC-68-20	KC-59-400	CPMC-88-1	UG-57 B/U	CP-AD800
KEYSTONE	EMERSON	6078	108-0302-001	2065-6-9	CPMC-68-3	KC-59-414	CPMC-88-1	UG-914/U	CP-AD555
6000	105-0301-001	6079	108-0303-001	2065-7-9	CPMC-68-2	KC-59-414-MO6	CPMC-88-1		
6001	105-0302-001	6080	108-1762-101	2065-10-9	CPMC-68-36	KC-59-415	CPMC-88-12	MA/COM	SEE TYCO/AMP
6002	105-0303-001	6081	108-1763-101	2065-10-9	CPMC-68-45	KC-59-416	CPMC-88-14		
6003	105-0304-001	6082	108-1762-101	2065-11-9	CPMC-68-34	KC-59-416-MO6	CPMC-88-14	MOLEX	EMERSON
6005	105-0310-001	6083	108-1763-101	759-1	CP-AD555	KC-59-417	CPMC-88-13	73301-1812	142-0694-001
6006	105-0771-001	6084	108-1702-101	759-3	CP-AD505	KC-59-417-MO6	CPMC-88-13	73301-1912	142-0693-001
6007	105-0772-001	6085	108-1703-101	759-4	CP-AD503	KC-59-421	CPMC-88-1	73303-1812	142-0594-001
6008	105-0773-001	6088	108-0252-001	759-5	CP-AD511	KC-59-422	CPMC-88-13	73303-1912	142-0593-001
6012	105-0201-200	6089	108-0253-001	879-11-15-MA9	CP-AD507	KC-59-423	CPMC-88-1	73304-1812	142-0594-401
6013	105-0202-200	6091	108-0902-001	879-5-15-MA9	CP-AD508	KC-59-465	CPMC-88-2	73304-1912	142-0593-401
6014	105-0203-200	6092	108-0903-001	KA-59-103	CPMC-TNC-1	KC-59-482	CPMC-88-2	73312-1212	142-0403-001
6015	105-0204-200	6093	108-0745-001	KA-59-225	CPMC-TNC-1	KC-59-61	CPMC-88-1	73313-1122	142-0407-101
6017	105-0210-200								

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

MOLEX	EMERSON	PHOENIX	EMERSON	RADIALL	EMERSON	RADIALL	EMERSON	RETCONN	EMERSON
73313-1222	142-0403-101	09-2800-0670	131-1403-101	RADIALL	EMERSON	R114554	131-3701-401	351-075-0002N	142-0701-416
73314-1112	142-0207-011	09-2800-2670	131-1404-101	R112075	131-6403-001	R114566	131-3701-421	351-875-0360H	142-0302-401
73314-1212	142-0203-011	09-3450-00	131-1701-371	R112186	131-6403-101	R114665	131-1701-371	351-875-0360N	142-0302-406
73315-1122	142-0207-101	0909-1180-00	131-3901-401	R112307	131-6303-401	R114720	131-3901-401	351-875-0630H	142-0303-401
73315-1222	142-0203-101	10-0800-0670	131-6403-001	R112426	131-6701-201	R125052	142-0693-001	351-875-0630N	142-0303-406
73324-1212	142-0303-401	10-0800-2670	131-6404-001	R112553	131-6701-411	R125054	142-0694-031	351-875-1161H	142-0308-401
73327-1212	142-0103-401	10-1080-00	131-6701-401	R112554	131-6701-401	R125055	142-0694-001	351-875-1161N	142-0308-406
73333-5002	142-0701-631	10-1080-01	131-6701-411	R112665	131-6701-301	R125072	142-0403-011	351-900-0630H	142-0303-011
73334-5002	142-0701-621	10-1450-00	131-6701-201	R113053	133-3693-001	R125072001	142-0403-016	351-900-0630N	142-0303-016
73352-5002	142-0701-401	10-2800-0670	131-6403-101	R113053020	133-3693-006	R125072008	142-0404-011	351-900-0631H	142-0304-011
73355-5002	142-0901-811	10-2800-2670	131-6404-101	R113081	133-3402-001	R125073	142-0403-001	351-900-0631N	142-0304-016
73356-5002	142-0901-821	10-3450-0	131-6701-301	R113081020	133-3402-006	R125075	142-0407-011	351-900-1160H	142-0307-011
73357-5002	142-0901-801	13-0200-0860	133-3693-001	R113082	133-3403-001	R125075001	142-0407-016	351-900-1160N	142-0307-016
73359-5002	142-0901-401	13-0450-00	133-3801-201	R113082020	133-3403-006	R125076	142-0408-011	351-900-1161H	142-0308-011
73446-1212	133-3403-001	13-0900-0400	133-3402-001	R113083	133-3404-001	R125076001	142-0408-016	351-900-1161N	142-0308-016
73446-1412	133-3402-001	13-0900-0670	133-3403-001	R113083020	133-3404-006	R125091	142-0203-011	351-975-0630H	142-0303-411
73447-1212	133-3403-101	13-0900-2670	133-3404-001	R113153	133-3693-101	R125172	142-0403-101	351-975-0630N	142-0303-416
73447-1412	133-3402-101	13-1450-00	131-3701-201	R113153020	133-3693-106	R125175	142-0407-101	351-975-0631H	142-0304-411
73448-1922	133-3693-101	13-1900-0400	133-3302-001	R113181	133-3402-101	R125222	142-0593-001	351-975-0631N	142-0304-416
73452-1212	133-3303-001	13-1900-0670	133-3303-001	R113181020	133-3402-106	R125225	142-0594-001	351-975-1160H	142-0307-411
73453-5002	133-3701-301	13-1900-2670	133-3304-001	R113182	133-3403-101	R125237001	142-0307-016	351-975-1160N	142-0307-416
73454-5002	133-3701-231	13-2200-0860	133-3693-101	R113182020	133-3403-106	R125238	142-0308-011	351-975-1161H	142-0308-411
73455-5002	133-3701-201	13-2800-0400	133-3402-101	R113183	133-3404-101	R125238001	142-0308-016	351-975-1161N	142-0308-416
73457-5002	133-3701-401	13-2800-0670	133-3403-101	R11318320	133-3404-106	R125325	142-0594-401	352-060-0040H	142-0801-301
73301-1812	142-0694-001	13-2800-2670	133-3404-101	R113236	133-3302-001	R125326	142-0593-401	352-060-0040N	142-0801-306
73301-1912	142-0693-001	13-3450-00	131-3701-301	R113236020	133-3302-006	R125403	142-0701-631	352-700-0360H	142-0202-101
73303-1812	142-0594-001	20-1265-1410G	142-0594-401	R113240	133-3303-001	R125553	142-0701-401	352-700-0360N	142-0202-106
73303-1912	142-0593-001	20-1464-00G	142-0701-411	R113240020	133-3303-006	R125560	142-0701-411	352-700-0630H	142-0203-101
73304-1812	142-0594-401	20-1565-0400G	142-0102-401	R113241	133-3304-001	R125680	142-0701-301	352-700-0630N	142-0203-106
73304-1912	142-0593-401	20-1565-0670G	142-0103-401	R113241020	133-3304-006	R125703	142-0901-811	352-700-1161H	142-0207-101
73312-1212	142-0403-001	20-1865-0402G	142-0302-401	R113280280100	142-0003-231	R125704	142-0901-821	352-700-1161N	142-0207-106
73313-1122	142-0407-101	20-1865-672G	142-0303-401	R113280280120	142-0003-236	R125705	142-0901-801	352-900-0630H	142-0403-101
73313-1222	142-0403-101	20-2200-0860G	142-0693-101	R113306	133-3302-401	R125720	142-0901-401	352-900-0630N	142-0403-106
73314-1112	142-0207-011	20-2200-1410G	142-0694-101	R113306020	133-3302-406			352-900-0631H	142-0404-101
73314-1212	142-0203-011	20-2450-00G	142-0801-301	R113310	133-3303-401	RETCONN	EMERSON	352-900-0631N	142-0404-106
73315-1122	142-0207-101	20-2500-0400G	142-0202-101	R113310020	133-3303-406	350-060-0040H	142-0801-201	352-900-1160H	142-0407-101
73315-1222	142-0203-101	20-2500-0670G	142-0203-101	R113311	133-3304-401	350-060-0040N	142-0801-206	352-900-1160N	142-0407-106
73324-1212	142-0303-401	20-2500-1200G	142-0207-101	R113311020	133-3304-406	350-700-0360H	142-0202-011	352-900-1161H	142-0408-101
73327-1212	142-0103-401	20-2800-0400G	142-0402-101	R113426	133-3701-201	350-700-0360N	142-0202-016	352-900-1161N	142-0408-106
73333-5002	142-0701-631	20-2800-0670G	142-0403-101	R113426020	133-3701-206	350-700-0630H	142-0203-011	353-060-0040H	142-0701-301
73334-5002	142-0701-621	20-2800-1200G	142-0407-101	R113427	133-3701-231	350-700-0630N	142-0203-016	353-060-0040N	142-0701-306
73352-5002	142-0701-401	20-3450-00G	142-0701-301	R113427020	133-3701-236	350-700-1161H	142-0207-011	450-060-0046H	133-3801-201
73355-5002	142-0901-811	20-3450-65G	142-0701-501	R113553	133-3701-401	350-700-1161N	142-0207-016	450-060-0046N	133-3801-206
73356-5002	142-0901-821	2020-0000-00G	142-0901-811	R113553020	133-3701-406	350-800-0630H	142-0403-001	450-500-0850H	133-3693-001
73357-5002	142-0901-801	2020-0100-00G	142-0901-821	R113665	133-3701-301	350-800-0630N	142-0403-006	450-500-0850N	133-3693-006
73359-5002	142-0901-401	2020-1100-00G	142-0901-801	R113665020	133-3701-306	350-900-0630H	142-0403-011	450-900-0360H	133-3402-001
73446-1212	133-3403-001	2020-1165-00G	142-0901-401	R113704	133-3901-801	350-900-0630N	142-0403-016	450-900-0360N	133-3402-006
73446-1412	133-3402-001	32-2800-0400	135-3402-101	R113704020	133-3901-806	350-900-0631H	142-0404-011	450-900-0630H	133-3403-001
73447-1212	133-3403-101	32-2800-0670	135-3403-101	R114-237	131-3302-001	350-900-0631N	142-0404-016	450-900-0630N	133-3403-006
73447-1412	133-3402-101	32-2800-2670	135-3404-101	R114053	131-3693-001	350-900-1160H	142-0407-011	450-900-0631H	133-3404-001
73448-1922	133-3693-101	33-0900-0400	135-3402-001	R114073134	131-3402-001	350-900-1160N	142-0407-016	450-900-0631N	133-3404-006
73452-1212	133-3303-001	33-0900-0670	135-3403-001	R114073134	131-3402-001	350-900-1161H	142-0408-011	451-060-0046H	133-3701-201
73453-5002	133-3701-301	33-0900-2670	135-3404-001	R114075134	131-3403-001	350-900-1161N	142-0408-016	451-060-0046N	133-3701-206
73454-5002	133-3701-231	33-1442-00	135-3701-201	R114075134	131-3403-001	351-060-0040H	142-1701-201	451-061-0040H	133-3711-201
73455-5002	133-3701-201	33-1486-00	135-3711-801	R114082	131-1403-001	351-060-0040N	142-1701-206	451-451-0000H	133-3901-801
73457-5002	133-3701-401	33-2200-086	135-3693-101	R114169	131-1693-101	351-065-0000H	142-0701-631	451-451-0000N	133-3901-806
				R114183	131-1402-101	351-065-0000N	142-0701-636	451-900-0360H	133-3302-001
				R114186	131-1402-101	351-066-0000H	142-0701-621	451-900-0360N	133-3302-006
				R114222	131-3593-401	351-066-0000N	142-0701-626	451-900-0630H	133-3303-001
				R114237	131-3302-001	351-066-0040H	142-1701-131	451-900-0630N	133-3303-006
				R114238	131-3303-001	351-066-0040N	142-1701-136	451-900-0631H	133-3304-001
				R114239	131-3303-001	351-075-0001H	142-0701-401	451-900-0631N	133-3304-006
				R114426	131-1701-201	351-075-0001N	142-0701-406	451-980-0360H	133-3302-401
				R114553	131-3701-411	351-075-0002H	142-0701-411	451-980-0360N	133-3302-406
PHOENIX	EMERSON	POMONA	EMERSON						
09-0450-00	131-3801-201	3259	108-0754-001						
09-0800-677	131-1403-001	3263	108-0750-001						
09-1080-00	131-3701-401	4511	108-0750-002						
09-1080-01	131-3701-411	1581-0	108-2303-621						
09-1450-04	131-3701-201	1581-2	108-2302-621						
09-2800-0400	131-1402-101								

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

RETCONN	EMERSON	SEAELECTRO	EMERSON	SEAELECTRO	EMERSON	SV MICROWAVE	EMERSON	SV MICROWAVE	EMERSON
451-980-0630H	133-3303-401	SEAELECTRO EMERSON		55-607-9173-31	142-0694-001	SV MICROWAVE EMERSON		2960-6268	142-1711-021
451-980-0630N	133-3303-406	50-024-0000	131-6403-001	55-608-2002-31	142-0593-001	066-15-000	142-1000-033	2960-6274	142-1711-031
451-980-0631H	133-3304-401	50-027-0000	131-6303-401	55-608-2003-31	142-0594-001	2902-6001	142-0694-031	2960-6613	142-1711-531
451-980-0631N	133-3304-406	50-043-0000	131-6701-401	55-608-9182-31	142-0593-001	2902-6005	142-0694-001	2960-6701	142-1711-521
452-500-0850H	133-3693-101	50-045-0000	131-6701-411	55-608-9183-31	142-0594-001	2902-6012	142-0694-001	2960-6703	142-1711-511
452-500-0850N	133-3693-106	50-051-0000	131-6701-201	55-610-3702-31	142-0593-401	2902-6013	142-0694-021	2970-6003	142-0701-401
452-900-0360H	133-3402-101	50-053-0000	131-6701-301	55-610-3703-31	142-0594-401	2903-6009	142-0403-001	2975-6001	142-0701-411
452-900-0360N	133-3402-106	50-328-3188	131-6403-101	55-610-9172-31	142-0594-401	2906-6002	142-0693-001	2990-6005	142-0901-401
452-900-0630H	133-3403-101	50-607-3141-31	142-0207-011	55-610-9173-31	142-0594-401	2911-6001	142-0407-101	2992-6001	142-0901-801
452-900-0630N	133-3403-106	50-607-3188-31	142-0203-011	55-624-3073-31	142-0694-021	2913-6001	142-0403-101	2993-6001	142-0901-811
452-900-0631H	133-3404-101	50-607-3196-31	142-0202-011	SIEMENS EMERSON		2913-6030	142-0402-101	2997-6003	142-0901-821
452-900-0631N	133-3404-106	50-610-3188-31	142-0103-401	V23608-A1027-B1	135-3701-201	2921-6002	142-0593-001	SF1503-6103	145-0693-002
453-060-0046H	133-3701-301	50-610-3196-31	142-0102-401	V23608-A109-B1	135-3402-001	2922-6007	142-0594-001	SF1550-6400	145-0701-612
453-060-0046N	133-3701-306	50-611-3141-31	142-0207-101	V23608-A109-B11	135-3436-001	2942-6001	142-0594-401	SF1552-6002	145-0701-602
		50-611-3188-31	142-0203-101	V23608-A1227-B1	135-3701-301	2942-6035	142-0303-401	SF1590-6000	145-0901-801
		50-611-3196-31	142-0202-101	V23608-A209-B1	135-3402-101	2943-6044	142-0302-401	SF1593-6000	145-0901-811
ROSENBERGER EMERSON		50-622-9142-31	142-0408-011	V23608-A209-B11	135-3436-101	2946-6001	142-0593-401	SF1597-6003	145-0901-821
02-K-521-800S3	145-0701-002	50-622-9188-31	142-0403-011	SPECIALTY EMERSON		2947-6003	142-0701-531	SF2947-6003	142-0701-536
02-S-121-271S3	142-0693-002	50-624-9188-31	142-0403-001	39JR293-1	142-1701-506	2950-6062	142-0701-621	SF2950-6135	142-1701-196
02-Z-101-000	142-1000-033	50-627-9188-31	142-0303-401	39JR293-2	142-1701-516	2950-6081	142-0701-631	SF2950-6220	142-1701-016
29 K 100-K00 D3	133-3901-801	50-627-9196-31	142-0302-401	39JR293-3	142-1701-526	2950-6135	142-1701-191	SF2950-6336	142-1701-206
29 K 101-101 A3	133-3302-006	50-628-9141-31	142-0407-101	39JR293-4	142-1701-536	2950-6220	142-1701-011	SF2950-6619	142-1701-506
29 K 101-101 D3	133-3302-001	50-628-9188-31	142-0403-101	39JR293-5	142-1701-546	2950-6336	142-1701-201	SF2950-6662	142-1701-526
29 K 101-102 A3	133-3303-006	50-628-9196-31	142-0402-101	39JR294-1	142-1701-606	2950-6619	142-1701-501	SF2950-6662	142-1701-536
29 K 101-102 D3	133-3303-001	50-643-0000-31	142-0701-401	39JR294-2	142-1701-616	2950-6662	142-1701-521	SF2950-6720	142-1701-606
29 K 101-103 A3	133-3304-006	50-643-4312-31	142-0701-411	39JR294-3	142-1701-626	2950-6662	142-1701-531	SF2950-6731	142-1701-546
29 K 101-103 D3	133-3304-001	50-645-4504-31	142-0701-631	39JR294-4	142-1701-636	2950-6720	142-1701-601	SF2950-6769	142-1701-506
29 K 101-400 A3	133-3701-206	50-645-4526-31	142-0701-621	39JR294-5	142-1701-646	2950-6731	142-1701-541	SF2950-6780	142-1701-626
29 K 101-400 D3	133-3701-201	50-651-0000-31	142-0701-201	39JR295-1	142-1701-506	2950-6769	142-1701-501	SF2950-6780	142-1701-636
29 K 101-K00 A3	133-3901-806	50-652-0000-31	142-0801-201	39JR295-2	142-1701-516	2950-6780	142-1701-621	SF2950-6781	142-1701-646
29 K 104-400 A3	133-3701-236	50-653-0000-31	142-0701-301	39JR295-3	142-1701-526	2950-6780	142-1701-631	SF2950-6784	142-1701-626
29 K 104-400 D3	133-3701-231	50-654-0000-31	142-0801-301	39JR295-4	142-1701-536	2950-6781	142-1701-641	SF2950-6784	142-1701-636
29 K 203-400 A3	133-3701-306	50-672-0000-31	142-0901-801	39JR295-5	142-1701-546	2950-6784	142-1701-621	SF2950-6786	142-1701-606
29 K 203-400 D3	133-3701-301	50-673-0000-31	142-0901-811	39JR296-1	142-1701-606	2950-6786	142-1701-601	SF2950-6789	142-1701-526
29 K 501-101 A3	133-3302-406	50-674-0000-31	142-0901-821	39JR296-2	142-1701-616	2950-6789	142-1701-521	SF2950-6789	142-1701-536
29 K 501-101 D3	133-3302-401	50-675-0000-31	142-0901-401	39JR296-3	142-1701-626	2950-6789	142-1701-531	SF2951-6106	142-1701-556
29 K 501-102 A3	133-3303-406	51-024-0000	131-1403-001	39JR296-4	142-1701-636	2951-6106	142-1701-551	SF2951-6107	142-1701-576
29 K 501-102 D3	133-3303-401	51-024-0000	131-3403-001	39JR296-5	142-1701-646	2951-6107	142-1701-571	SF2951-6107	142-1701-586
29 K 501-103 A3	133-3304-406	51-024-3196	131-3402-001	39PR130-4	142-1801-536	2951-6107	142-1701-581	SF2951-6110	142-1701-616
29 K 501-103 D3	133-3304-401	51-025-0000	131-3302-001	39PR130-5	142-1801-546	2951-6110	142-1701-611	SF2951-6112	142-1701-566
29 K 501-500 A3	133-3701-406	51-043-0000	131-3701-401	39PR131-1	142-1801-606	2951-6112	142-1701-561	SF2951-6114	142-1701-556
29 K 501-500 D3	133-3701-401	51-045-0000	131-3701-411	39PR131-2	142-1801-616	2951-6114	142-1701-551	SF2951-6115	142-1701-576
29 S 101-101 A3	133-3402-006	51-045-4504	131-3701-631	39PR131-3	142-1801-626	2951-6115	142-1701-571	SF2951-6116	142-1701-596
29 S 101-101 D3	133-3402-001	51-045-4524	131-3701-621	39PR131-4	142-1801-636	2951-6116	142-1701-581	SF2951-6122	142-1701-616
29 S 101-102 A3	133-3403-006	51-049-0000	131-3701-421	39PR131-5	142-1801-646	2951-6116	142-1701-591	SF2951-6124	142-1701-566
29 S 101-102 D3	133-3403-001	51-051-0000	131-1701-201	39PR132-4	142-1801-536	2951-6122	142-1701-611	SF2951-6125	142-1701-516
29 S 101-103 A3	133-3404-006	51-051-0000	131-3701-201	39PR132-5	142-1801-546	2951-6124	142-1701-561	SF2951-6146	142-1701-516
29 S 101-103 D3	133-3404-001	51-052-0000	131-3801-201	39PR133-1	142-1801-606	2951-6125	142-1701-511	SF2955-6166	142-1801-546
29 S 101-271 A3	133-3693-006	51-053-0000	131-1701-371	39PR133-2	142-1801-616	2951-6146	142-1701-511	SF2955-6177	142-1801-606
29 S 101-271 D3	133-3693-106	51-054-0000	131-3701-301	39PR133-3	142-1801-626	2955-6166	142-1801-541	SF2955-6178	142-1801-536
29 S 201-271 A3	133-3693-101	51-054-0000	131-3801-301	39PR133-4	142-1801-636	2955-6177	142-1801-601	SF2955-6197	142-1801-626
29 S 201-271 D3	133-3693-106	51-062-2210	131-3701-801	39PR133-5	142-1801-646	2955-6178	142-1801-531	SF2955-6197	142-1801-636
29 S 201-301 A3	133-3402-106	51-075-0000	131-3901-401	SRI EMERSON		2955-6197	142-1801-631	SF2955-6297	142-1801-606
29 S 201-301 D3	133-3402-101	51-328-3188	131-1403-101	24-000-1041-90	145-0694-002	2955-6297	142-1801-531	SF2955-6299	142-1801-626
29 S 201-302 A3	133-3403-106	51-328-3188	131-3403-101	24-924-0000-90	145-0901-811	2955-6298	142-1801-601	SF2955-6299	142-1801-636
29 S 201-302 D3	133-3403-101	51-328-3196	131-1402-101	24-925-0000-90	145-0901-821	2955-6298	142-1801-621	SF2955-6300	142-1801-646
29 S 201-303 A3	133-3404-106	55-607-0369-31	142-0694-031	25-130-1500-90	145-0701-602	2955-6299	142-1801-631	SF2955-6305	142-1801-616
29 S 201-303 D3	133-3404-101	55-607-2203-31	142-0694-001	25-131-1500-90	145-0701-612	2955-6300	142-1801-641	SF2955-6333	142-1801-616
29 Z 101-102 A3	142-0003-236	55-607-3702-31	142-0693-001	25-925-0000-90	145-0901-801	2955-6305	142-1801-611	SF2960-6001	142-0701-706
29 Z 101-102 D3	142-0003-231	55-607-9073-31	142-0694-011	26-000-1085-90	145-0693-002	2955-6333	142-1801-611	SF2960-6025	142-1711-006
29 Z 101-103 A3	142-0004-216	55-607-9172-31	142-0693-001			2960-6001	142-0701-701	SF2960-6268	142-1711-026
29 Z 101-103 D3	142-0004-211					2960-6025	142-1711-001	SF2960-6274	142-1711-036

Competitor Cross Reference

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

SV MICROWAVE	EMERSON	TROMPETER	EMERSON	TYCO/AMP	EMERSON	TYCO/AMP	EMERSON	TYCO/AMP	EMERSON
SF2960-6613	142-1711-536	1-221128-2	CPMC-88-3	2051-1350-00	142-1801-601	2082-5133-00	142-0901-821	5801-7985-63	133-3693-001
SF2960-6701	142-1711-526	1-221128-6	CPMC-88-2	2051-3354-00	142-1801-601	2084-0000-00	142-0901-401	5818-5002-10	142-0003-236
SF2960-6703	142-1711-516	1-221128-7	CPMC-88-2	2051-3354-02	142-1801-606	221117-1	142-0408-016	5818-5003-10	142-0003-246
211-03SF	142-1801-536	1-226208-3	CPL-259-18	2051-3356-00	142-1801-621	221117-2	142-0403-016	5818-5005-10	142-0002-226
211-12SF	142-1801-556	1-227079-0	CPMC-88-13	2051-3356-02	142-1801-626	221117-3	142-0404-016	5831-5002-10	133-3402-006
211-14SF	142-1801-566	1-227079-1	CPMC-88-2	2051-3358-00	142-1801-541	221119-1	142-0308-016	5831-5003-10	133-3403-006
211-16SF	142-1801-576	1-227079-3	CPMC-88-2	2051-3358-02	142-1801-546	221119-2	142-0303-016	5837-5002-10	133-3402-106
212-01SF	142-1701-516	1-227079-4	CPM-88-19	2051-3359-00	142-1801-641	221119-3	142-0304-016	5837-5003-10	133-3403-106
212-03SF	142-1701-536	1-227079-5	CPM-88-19	2051-3359-02	142-1801-646	221128-1	CPMC-88-1	5837-5010-63	133-3403-101
212-06SF	142-1701-526	1-227079-6	CPM-88-19	2051-3362-00	142-1801-531	221128-2	CPMC-88-2	5862-5002-10	133-3701-216
212-08SF	142-1701-566	1-227079-7	CPMC-88-18	2051-3362-02	142-1801-536	221128-3	CPMC-88-3	5862-5003-10	133-3701-206
212-10SF	142-1701-586	1-227079-9	CPMC-88-18	2051-3363-00	142-1801-631	221128-4	CPMC-88-1	5862-5004-10	133-3701-226
212-12SF	142-1701-576	1-227086-0	CPN-1	2051-3363-02	142-1801-636	221128-5	CPMC-88-2	5863-0000-10	133-3801-201
212-13SF	142-1701-556	1-228509-2	CP-625U	2052-0000-00	142-0701-631	221128-6	CPMC-88-3	5864-5001-10	133-3701-306
212-26SF	142-1701-506	1-330022-2	CP-BNC-CAP-1	2052-1215-00	142-1701-191	221169-1	142-0308-416	5864-5002-10	133-3701-326
213-01SF	142-1801-616	134866-1	CPMC-TNC-2	2052-1215-02	142-1701-196	221169-2	142-0303-416	5864-5003-10	133-3701-316
213-03SF	142-1801-636	1-413592-4	CP-AD505	2052-1350-00	142-1701-621	221169-3	142-0304-416	8598-0294-00	142-1000-033
213-06SF	142-1801-626	1-414586-4	CPMC-88-3	2052-3350-00	142-1701-501	221185-2	CPMC-78-2	X65 X08 G022 X99 ...	142-0003-201
213-08SF	142-1801-606	1060031-1	145-0701-602	2052-3350-02	142-1701-506	221244-1	CP-BNC-BM-001	X65 X08 J022 X99 ...	142-0003-206
214-01SF	142-1701-616	1060035-1	145-0701-002	2052-3352-00	142-1701-521	221325-1	CP-AD355	X65 X11 G022 X99 ...	142-0003-301
214-03SF	142-1701-636	1060041-1	145-0901-801	2052-3352-02	142-1701-526	221543-2	CP-AD505	X65 X11 J022 X99 ...	142-0003-306
214-06SF	142-1701-626	1060041-1	145-0901-811	2052-3354-00	142-1701-601	221551-3	CP-AD555		
214-08SF	142-1701-606	1063404-11	142-1000-033	2052-3354-02	142-1701-606	2831-7316-02	142-0404-016		
		2-221128-5	CPMC-88-14	2052-3356-00	142-1701-621	2831-7341-02	142-0408-016		
		2-221128-7	CPMC-88-2	2052-3356-02	142-1701-626	2831-7358-02	142-0407-016		
TELEGARTNER	EMERSON	2-225395-0	CPMC-88-2	2052-3358-00	142-1701-541	2831-7388-02	142-0403-016		
H01000A005 7	142-0003-236	2-225395-9	CPMC-88-3	2052-3358-02	142-1701-546	2834-7316-02	142-0304-416		
J01270A000 1	133-3402-001	2-227079-0	CPM-88-20	2052-3359-00	142-1701-641	2834-7341-02	142-0308-416		
J01270A000 9	133-3402-006	2-227079-1	CPM-88-20	2052-3359-02	142-1701-646	2834-7358-02	142-0307-416		
J01270A002 1	133-3403-001	2-227079-2	CPM-88-20	2052-3362-00	142-1701-531	2834-7388-02	142-0303-416		
J01270A002 9	133-3403-006	2-331350-1	CPMC-88-1	2052-3362-02	142-1701-536	2837-7316-02	142-0404-106		
J01270A005 1	133-3402-101	2-331350-2	CPMC-88-18	2052-3363-00	142-1701-631	2837-7341-02	142-0408-106		
J01270A005 9	133-3402-106	2-331350-4	CPM-88-19	2052-3363-02	142-1701-636	2837-7358-02	142-0407-106		
J01270A006 1	133-3403-101	2-331350-5	CPM-88-20	2052-3375-00	142-1701-571	2837-7388-02	142-0403-106		
J01270A006 9	133-3403-106	2-331350-6	CPMC-88-14	2052-3375-02	142-1701-576	4801-7985-02	145-0693-002		
J01270A009 1	133-3693-101	2-331350-9	CPMC-88-13	2052-3393-00	142-1701-551	4852-3575-02	145-0701-602		
J01270A009 9	133-3693-106	2001-5003-00	142-0694-001	2052-3393-02	142-1701-556	4852-3576-02	145-0701-612		
J01271A000 1	133-3302-001	2001-5025-00	142-0694-021	2052-3500-00	142-1701-511	4858-3577-02	145-0701-002		
J01271A000 9	133-3302-006	2001-5031-00	142-0694-011	2052-3500-02	142-1701-516	4880-2362-02	145-0901-801		
J01271A010 1	133-3701-401	2001-7141-00	142-0207-011	2052-3501-00	142-1701-561	4881-2361-02	145-0901-811		
J01271A010 9	133-3701-406	2001-7188-00	142-0203-011	2052-3501-02	142-1701-566	4882-2361-02	145-0901-821		
J01271A013 1	133-3701-201	2001-7941-00	142-0694-031	2052-3502-00	142-1701-611	5031-7188-09	131-6403-001		
J01271A013 9	133-3701-206	2001-7985-00	142-0693-001	2052-3502-02	142-1701-616	5034-7188-09	131-6303-401		
J01271A014 1	133-3701-231	2002-5015-00	142-0594-001	2052-5674-00	142-1701-201	5037-7188-09	131-6403-101		
J01271A016 1	133-3701-311	2002-5016-00	142-0593-001	2052-5674-02	142-1701-206	5056-0000-09	131-6701-401		
J01271A016 9	133-3701-316	2004-7188-00	142-0103-401	2054-0000-00	142-0701-701	5058-0000-09	131-6701-411		
		2004-7941-00	142-0594-401	2054-0000-02	142-0701-706	5062-0000-09	131-6701-201		
TROMPETER	EMERSON	2004-7985-00	142-0593-401	2054-1201-00	142-1711-001	5064-0000-09	131-6701-301		
UPL220-009	CPMC-68-18	2007-5054-02	142-0694-101	2054-1201-02	142-1711-006	5131-7188-09	131-1403-001		
UPL220-017	CPMC-68-5	2007-5055-02	142-0693-101	2054-1231-00	142-1711-001	5131-7188-09	131-3403-001		
UPL220-023	CPMC-68-10	2007-7141-00	142-0207-101	2054-1231-02	142-1711-006	5131-7196-09	131-3402-001		
UPL220-026	CPMC-68-33	2007-7188-00	142-0203-101	2054-1241-00	142-1711-011	5132-7188-09	131-3303-001		
UPL2000-D1	CPMC-68-34	2013-5005-00	142-0408-011	2054-1241-02	142-1711-016	5132-7196-09	131-3302-001		
UPL2000-D2	CPMC-68-35	2031-5005-02	142-0408-016	2054-1251-00	142-1711-031	5137-7188-09	131-1403-101		
UPL2000-D3	CPMC-68-2	2031-5006-00	142-0403-011	2054-1251-02	142-1711-036	5137-7188-09	131-3403-101		
UPL2000-D4	CPMC-68-45	2031-5006-02	142-0403-016	2054-1261-00	142-1711-021	5137-7196-09	131-1402-101		
UPL2000-D6	CPMC-68-36	2031-5012-00	142-0403-001	2054-1261-02	142-1711-026	5137-7196-09	131-3402-101		
UPL2000-D7	CPMC-68-20	2031-5055-00	142-0407-011	2056-0000-00	142-0701-401	5152-0000-09	131-3701-631		
UPL2000-D8	CPMC-68-50	2031-5055-02	142-0407-016	2056-5006-00	142-0701-411	5156-0000-09	131-3701-401		
UPL2000-D10	CPMC-68-3	2034-5005-00	142-0303-401	2060-0000-00	142-0701-531	5158-0000-09	131-3701-411		
		2034-5031-00	142-0302-401	2060-0000-02	142-0701-536	5162-0000-09	131-1701-201		
TYCO/AMP	EMERSON	2037-5008-00	142-0403-101	2064-0000-00	142-0701-301	5162-0000-09	131-3701-201		
1-221128-0	CPMC-88-1	2037-5056-00	142-0407-101	2080-0000-00	142-0901-801	5164-0000-09	131-1701-371		
1-221128-1	CPMC-88-2	2037-5100-00	142-0402-101	2081-0000-00	142-0901-811	5164-0000-09	131-3701-301		

105-0201-200.....	262	105-2201-101.....	260	108-2307-801.....	267	131-3407-001.....	89	131-6303-401.....	118	131-8701-211.....	107
105-0202-200.....	262	105-2201-105.....	260	108-2310-801.....	267	131-3407-006.....	89	131-6303-406.....	118	131-8701-216.....	107
105-0203-200.....	262	105-2201-201.....	261	111-0101-001.....	276	131-3407-021.....	89	131-6304-401.....	118	131-8701-251.....	107
105-0204-200.....	262	105-2202-101.....	260	111-0102-001.....	276	131-3407-026.....	89	131-6304-406.....	118	131-8701-256.....	107
105-0210-200.....	262	105-2202-105.....	260	111-0103-001.....	276	131-3407-101.....	90	131-6333-401.....	118	131-8701-261.....	107
105-0251-001.....	263	105-2202-201.....	261	111-0104-001.....	276	131-3407-106.....	90	131-6333-406.....	118	131-8701-266.....	107
105-0252-001.....	263	105-2203-101.....	260	111-0107-001.....	276	131-3593-401.....	88	131-6403-001.....	117	131-8701-301.....	108
105-0253-001.....	263	105-2203-105.....	260	111-0110-001.....	276	131-3593-406.....	88	131-6403-006.....	117	131-8701-306.....	108
105-0301-001.....	265	105-2203-201.....	261	111-0702-001.....	276	131-3693-001.....	87	131-6403-101.....	118	131-8701-311.....	108
105-0302-001.....	265	105-2204-101.....	260	111-0703-001.....	276	131-3693-016.....	87	131-6403-106.....	118	131-8701-316.....	108
105-0303-001.....	265	105-2204-105.....	260	111-2223-001.....	276	131-3693-101.....	87	131-6404-001.....	117	131-8701-501.....	109
105-0304-001.....	265	105-2204-201.....	261	122-0247-202.....	280	131-3693-116.....	87	131-6404-006.....	117	131-8701-506.....	109
105-0310-001.....	265	105-2207-101.....	260	122-0275-001.....	279	131-3694-401.....	87	131-6404-101.....	118	131-8701-601.....	109
105-0601-001.....	263	105-2207-105.....	260	124-0311-100.....	279	131-3694-406.....	87	131-6404-106.....	118	131-8701-606.....	109
105-0602-001.....	263	105-2207-201.....	261	129-0701-201.....	125	131-3701-201.....	94	131-6433-001.....	117	131-8701-801.....	110, 114
105-0603-001.....	263	108-0252-001.....	274	129-0701-202.....	125	131-3701-206.....	94	131-6433-006.....	117	131-8701-811.....	110, 114
105-0604-001.....	263	108-0253-001.....	274	129-0701-301.....	125	131-3701-211.....	94	131-6433-101.....	118	131-8701-821.....	110, 114
105-0607-001.....	263	108-0301-001.....	270	129-0701-302.....	125	131-3701-215.....	94	131-6433-106.....	118	131-8701-841.....	109
105-0610-001.....	263	108-0302-001.....	270	131-1402-101.....	91	131-3701-216.....	94	131-6593-401.....	117	131-8701-846.....	109
105-0701-001.....	264	108-0303-001.....	270	131-1402-116.....	91	131-3701-231.....	95	131-6593-406.....	117	131-8711-201.....	108
105-0702-001.....	264	108-0304-001.....	270	131-1403-001.....	89	131-3701-236.....	95	131-6701-201.....	119	131-8711-202.....	108
105-0703-001.....	264	108-0306-001.....	270	131-1403-016.....	89	131-3701-261.....	94	131-6701-206.....	119	131-8801-801.....	110, 114
105-0751-001.....	260	108-0307-001.....	270	131-1403-101.....	91	131-3701-266.....	94	131-6701-211.....	119	131-8801-811.....	110, 114
105-0751-150.....	260	108-0308-001.....	270	131-1403-116.....	91	131-3701-271.....	94	131-6701-215.....	119	131-8801-821.....	110, 114
105-0752-001.....	260	108-0310-001.....	270	131-1404-001.....	89	131-3701-275.....	94	131-6701-216.....	119	131-8901-401.....	111
105-0752-150.....	260	108-0312-001.....	270	131-1404-016.....	89	131-3701-276.....	94	131-6701-301.....	120	131-8901-406.....	111
105-0753-001.....	260	108-0313-001.....	270	131-1404-101.....	91	131-3701-301.....	95	131-6701-341.....	120	131-8901-801.....	111, 114
105-0753-150.....	260	108-0740-001.....	266	131-1404-116.....	91	131-3701-306.....	95	131-6701-346.....	120	131-8901-811.....	111, 114
105-0754-001.....	260	108-0740-102.....	267	131-1693-101.....	88	131-3701-341.....	96	131-6701-401.....	121	131-8901-821.....	111, 114
105-0756-001.....	260	108-0745-001.....	268	131-1693-116.....	88	131-3701-346.....	96	131-6701-406.....	121	131-9403-001.....	101
105-0757-001.....	260	108-0745-002.....	268	131-1701-201.....	94	131-3701-401.....	98	131-6701-411.....	121	131-9403-101.....	101
105-0757-150.....	260	108-0750-001.....	269	131-1701-206.....	94	131-3701-406.....	98	131-6701-416.....	121	131-9404-001.....	101
105-0758-001.....	260	108-0750-002.....	269	131-1701-211.....	94	131-3701-411.....	98	131-6701-831.....	121	131-9404-101.....	101
105-0760-001.....	260	108-0752-001.....	271	131-1701-215.....	94	131-3701-416.....	98	131-6701-836.....	121	131-9701-201.....	102
105-0762-001.....	260	108-0752-002.....	271	131-1701-216.....	94	131-3701-441.....	98	131-6711-201.....	119	131-9701-211.....	102
105-0763-001.....	260	108-0753-001.....	269	131-1701-371.....	96	131-3701-446.....	98	131-8303-401.....	105	131-9701-301.....	102
105-0771-001.....	265	108-0753-102.....	270	131-1701-376.....	96	131-3701-501.....	96	131-8303-406.....	105	133-3302-001.....	13
105-0772-001.....	265	108-0754-001.....	269	131-1801-371.....	93	131-3701-506.....	96	131-8304-401.....	105	133-3302-006.....	13
105-0773-001.....	265	108-0901-001.....	268	131-1801-376.....	93	131-3701-511.....	96	131-8304-406.....	105	133-3302-401.....	13
105-0801-001.....	264	108-0902-001.....	268	131-3302-001.....	91	131-3701-516.....	96	131-8403-001.....	105	133-3302-406.....	13
105-0802-001.....	264	108-0903-001.....	268	131-3302-006.....	91	131-3701-621.....	99	131-8403-006.....	105	133-3303-001.....	13
105-0803-001.....	264	108-0904-001.....	268	131-3303-001.....	91	131-3701-626.....	99	131-8403-011.....	105	133-3303-006.....	13
105-0804-001.....	264	108-0906-001.....	268	131-3303-006.....	91	131-3701-631.....	99	131-8403-016.....	105	133-3303-401.....	13
105-0807-001.....	264	108-0907-001.....	268	131-3303-401.....	92	131-3701-636.....	99	131-8403-101.....	106	133-3303-406.....	13
105-0810-001.....	264	108-0908-001.....	268	131-3303-406.....	92	131-3701-801.....	97	131-8403-106.....	106	133-3304-001.....	13
105-0851-001.....	261	108-0910-001.....	268	131-3303-501.....	92	131-3701-806.....	97	131-8403-111.....	106	133-3304-006.....	13
105-0852-001.....	261	108-0912-001.....	268	131-3303-506.....	92	131-3701-811.....	97	131-8403-116.....	106	133-3304-401.....	13
105-0853-001.....	261	108-0913-001.....	268	131-3304-401.....	92	131-3701-816.....	97	131-8404-001.....	105	133-3304-406.....	13
105-0854-001.....	261	108-1002-001.....	275	131-3304-406.....	92	131-3701-821.....	97	131-8404-006.....	105	133-3402-001.....	12
105-0856-001.....	261	108-1003-001.....	275	131-3304-501.....	92	131-3701-826.....	97	131-8404-011.....	105	133-3402-006.....	12
105-0857-001.....	261	108-1081-001.....	273	131-3304-506.....	92	131-3701-831.....	97	131-8404-016.....	105	133-3402-101.....	12
105-0858-001.....	261	108-1082-001.....	273	131-3402-001.....	89	131-3701-836.....	97	131-8404-101.....	106	133-3402-106.....	12
105-0860-001.....	261	108-1083-001.....	273	131-3402-016.....	89	131-3711-201.....	95	131-8404-106.....	106	133-3403-001.....	12
105-1041-001.....	262	108-1087-001.....	273	131-3402-101.....	90	131-3711-301.....	96	131-8404-111.....	106	133-3403-006.....	12
105-1042-001.....	262	108-1102-001.....	275	131-3402-116.....	90	131-3711-302.....	96	131-8404-116.....	106	133-3403-101.....	12
105-1043-001.....	262	108-1103-001.....	275	131-3403-001.....	89	131-3801-201.....	93	131-8409-001.....	105	133-3403-106.....	12
105-1044-001.....	262	108-1702-101.....	271	131-3403-016.....	89	131-3801-216.....	93	131-8409-006.....	105	133-3404-001.....	12
105-1047-001.....	262	108-1703-101.....	271	131-3403-021.....	89	131-3801-231.....	93	131-8409-101.....	106	133-3404-006.....	12
105-1050-001.....	262	108-1722-101.....	272	131-3403-026.....	89	131-3801-236.....	93	131-8409-106.....	106	133-3404-101.....	12
105-1101-001.....	260	108-1722-103.....	273	131-3403-101.....	90	131-3801-301.....	93	131-8433-001.....	105	133-3404-106.....	12
105-1102-001.....	260	108-1723-101.....	272	131-3403-116.....	90	131-3801-316.....	93	131-8433-006.....	105	133-3407-101.....	12
105-1103-001.....	260	108-1723-103.....	273	131-3403-401.....	90	131-3801-811.....	100	131-8434-001.....	105	133-3407-106.....	12
105-1104-001.....	260	108-1762-101.....	272	131-3403-406.....	90	131-3801-816.....	100	131-8434-006.....	105	133-3433-001.....	12
105-1107-001.....	260	108-1763-101.....	272	131-3404-001.....	89	131-3801-821.....	100	131-8445-001.....	105	133-3433-006.....	12
105-1110-001.....	260	108-2300-501.....	266	131-3404-016.....	89	131-3801-826.....	100	131-8445-006.....	105	133-3433-101.....	12
105-1301-002.....	265	108-2301-801.....	267	131-3404-021.....	89	131-3901-401.....	100	131-8445-011.....	105	133-3433-106.....	12
105-1302-002.....	265	108-2302-621.....	267	131-3404-026.....	89	131-3901-406.....	100	131-8445-016.....	105	133-3693-001.....	11
105-1303-002.....	265	108-2302-801.....	267	131-3404-101.....	90	131-3901-411.....	100	131-8445-101.....	106	133-3693-006.....	11
105-1304-002.....	265	108-2303-621.....	267	131-3404-116.....	90	131-3901-416.....	100	131-8445-106.....	106	133-3693-101.....	11
105-1307-002.....	265	108-2303-801.....	267	131-3404-401.....	90	131-3901-901.....	100	131-8701-201.....	107	133-3693-106.....	11
105-1310-002.....	265	108-2304-801.....	267	131-3404-406.....	90	131-3901-906.....	100	131-8701-206.....	107	133-3701-201.....	14

Numerical Index

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

133-3701-206	14	133-5404-101	21	135-3304-001	6	142-0004-211	123	142-0404-101	45	142-0701-531	56
133-3701-211	14	133-5404-106	21	135-3333-001	6	142-0004-216	123	142-0404-106	45	142-0701-536	56
133-3701-216	14	133-5701-201	22	135-3336-001	6	142-0004-221	123	142-0407-011	44	142-0701-551	51
133-3701-221	14	133-5701-206	22	135-3336-401	6	142-0004-226	123	142-0407-016	44	142-0701-556	51
133-3701-226	14	133-5701-501	22	135-3402-001	6	142-0004-301	123	142-0407-101	45	142-0701-621	60
133-3701-231	15	133-5701-506	22	135-3402-101	5	142-0004-306	123	142-0407-106	45	142-0701-626	60
133-3701-236	15	133-5701-801	22	135-3402-111	5	142-0004-801	124	142-0408-011	44	142-0701-631	60
133-3701-301	16	133-5701-806	22	135-3403-001	6	142-0004-811	124	142-0408-016	44	142-0701-636	60
133-3701-306	16	133-8333-001	24	135-3403-101	5	142-0007-801	124	142-0408-101	45	142-0701-701	62
133-3701-311	16	133-8333-401	24	135-3404-001	6	142-0007-811	124	142-0408-106	45	142-0701-706	62
133-3701-316	16	133-8334-001	24	135-3404-101	5	142-0008-801	124	142-0433-011	44	142-0701-801	52, 54
133-3701-321	16	133-8334-401	24	135-3433-001	6	142-0008-811	124	142-0433-016	44	142-0701-806	52, 54
133-3701-326	16	133-8433-001	24	135-3436-001	6	142-0093-801	124	142-0433-101	45	142-0701-831	54
133-3701-401	18	133-8433-101	24	135-3436-101	5	142-0094-801	124	142-0433-106	45	142-0701-836	54
133-3701-406	18	133-8434-001	24	135-3693-101	5	142-0096-801	124	142-0435-001	44	142-0701-841	54
133-3701-411	18	133-8434-101	24	135-3701-201	7	142-0102-401	48	142-0435-006	44	142-0701-846	54
133-3701-416	18	133-8445-001	24	135-3701-211	7	142-0102-406	48	142-0435-101	45	142-0701-851	52, 54
133-3701-601	18	133-8445-101	24	135-3701-301	7	142-0103-401	48	142-0435-106	45	142-0701-856	54
133-3701-606	18	133-8701-201	25	135-3701-311	7	142-0103-406	48	142-0439-001	44	142-0701-861	52
133-3701-611	18	133-8701-211	25	135-3711-201	7	142-0107-401	48	142-0439-006	44	142-0701-871	52, 55
133-3701-616	18	133-8701-301	26	135-3711-202	7	142-0107-406	48	142-0439-101	45	142-0701-876	52, 55
133-3701-621	18	133-8701-311	26	135-3711-801	8	142-0202-011	47	142-0439-106	45	142-0701-881	52, 54
133-3701-626	18	133-8701-401	26	135-3711-802	8	142-0202-016	47	142-0593-001	43	142-0701-886	52, 54
133-3701-801	17	133-8701-801	26	135-3801-201	8	142-0202-101	48	142-0593-006	43	142-0711-201	50
133-3701-806	17	133-8701-831	27	135-3801-811	8	142-0202-106	48	142-0593-401	43	142-0711-202	50
133-3701-811	17	133-8711-201	25	140-0000-951	191	142-0203-011	47	142-0593-406	43	142-0711-301	50
133-3701-816	17	133-8711-202	25	140-0000-952	191	142-0203-016	47	142-0593-411	43	142-0711-302	50
133-3701-821	17	133-8801-201	25	140-0000-953	191	142-0203-101	48	142-0594-001	43	142-0711-811	55
133-3701-826	17	133-8801-211	25	140-0000-954	192	142-0203-106	48	142-0594-006	43	142-0711-816	55
133-3711-201	15	133-8801-221	25	140-0000-955	191	142-0207-011	47	142-0594-401	43	142-0711-821	52, 53
133-3711-202	15	133-8801-831	27	140-0000-956	192	142-0207-016	47	142-0594-406	43	142-0711-826	52, 53
133-3711-211	15	133-8901-801	27	140-0000-957	193	142-0207-101	48	142-0693-001	41	142-0711-841	53
133-3711-212	15	133-8901-811	27	140-0000-958	193	142-0207-106	48	142-0693-006	41	142-0711-846	53
133-3711-301	16	133-8901-821	27	140-0000-959	193	142-0302-401	46	142-0693-051	42	142-0711-871	52, 54
133-3711-302	16	133-9403-001	30	140-0000-960	193	142-0302-406	46	142-0693-056	42	142-0711-876	52, 54
133-3711-311	16	133-9403-101	30	140-0000-961	193	142-0302-431	47	142-0693-101	41	142-0711-881	52, 54
133-3711-312	16	133-9404-001	30	140-0000-962	193	142-0302-436	47	142-0693-106	41	142-0711-886	52, 54
133-3711-801	17	133-9404-101	30	140-0000-964	193	142-0303-401	46	142-0694-001	41	142-0721-841	55
133-3711-802	17	133-9701-201	31	140-0000-965	193	142-0303-406	46	142-0694-006	41	142-0721-846	55
133-3801-201	14	133-9701-211	31	140-0000-968	193	142-0303-411	47	142-0694-011	41	142-0721-861	53
133-3801-206	14	133-9701-231	31	140-0000-970	191	142-0303-416	47	142-0694-016	41	142-0721-866	53
133-3801-211	14	133-9701-301	31	140-0000-971	191	142-0304-401	46	142-0694-021	42	142-0721-871	55
133-3801-216	14	133-9701-311	31	141-0000-901	190	142-0304-406	46	142-0694-026	42	142-0721-876	55
133-3801-801	19	133-9701-801	31	141-0000-902	190	142-0304-411	47	142-0694-031	42	142-0721-881	55
133-3801-806	19	134-0303-406	171	141-0000-903	190	142-0304-416	47	142-0694-036	42	142-0721-882	55
133-3801-821	19	134-0304-406	171	141-0000-904	192	142-0307-401	46	142-0694-041	42	142-0731-861	55
133-3801-826	19	134-0307-406	171	141-0000-905	190	142-0307-406	46	142-0694-046	42	142-0731-866	55
133-3801-841	17	134-0308-406	171	141-0000-907	191	142-0307-411	47	142-0694-051	42	142-0801-201	49
133-3801-846	17	134-1012-011	127	141-0000-908	192	142-0307-416	47	142-0694-056	42	142-0801-206	49
133-3801-851	17	134-1012-021	127	141-0000-910	192	142-0308-401	46	142-0694-101	41	142-0801-301	49
133-3801-856	17	134-1012-031	127	141-0000-911	190	142-0308-406	46	142-0694-106	41	142-0801-306	49
133-3901-401	19	134-1012-041	127	141-0000-924	190	142-0308-411	47	142-0701-201	49	142-0801-421	48
133-3901-406	19	134-1018-001	128	141-0000-925	190	142-0308-416	47	142-0701-206	49	142-0801-801	53
133-3901-801	19	134-1018-011	128	141-0000-927	190	142-0333-411	47	142-0701-231	49	142-0801-806	53
133-3901-806	19	134-1018-021	128	142-0000-005	168	142-0333-416	47	142-0701-235	49	142-0801-811	53
133-5302-401	21	134-1018-031	128	142-0002-221	123	142-0335-401	47	142-0701-236	49	142-0801-816	53
133-5302-406	21	134-1019-151	129	142-0002-226	123	142-0335-406	47	142-0701-301	50	142-0801-821	53
133-5303-401	21	134-1019-161	129	142-0002-811	124	142-0339-401	47	142-0701-306	50	142-0801-826	53
133-5303-406	21	134-1019-171	129	142-0002-821	124	142-0339-406	47	142-0701-335	51	142-0801-831	53
133-5304-401	21	134-1019-181	129	142-0003-201	123	142-0402-011	44	142-0701-401	56	142-0801-836	53
133-5304-406	21	134-1068-001	28	142-0003-206	123	142-0402-016	44	142-0701-406	56	142-0801-861	73
133-5402-001	21	134-1068-011	28	142-0003-231	123	142-0402-101	45	142-0701-411	56	142-0801-866	73
133-5402-006	21	134-1068-021	28	142-0003-236	123	142-0402-106	45	142-0701-416	56	142-0901-401	71, 168
133-5402-101	21	134-1068-031	28	142-0003-241	123	142-0403-001	44	142-0701-421	49	142-0901-406	71
133-5402-106	21	134-1069-001	112, 114	142-0003-246	123	142-0403-006	44	142-0701-426	49	142-0901-801	71, 168
133-5403-001	21	134-1069-011	112, 114	142-0003-301	123	142-0403-011	44	142-0701-481	59, 202	142-0901-806	71
133-5403-006	21	134-1069-021	112, 114	142-0003-306	123	142-0403-016	44	142-0701-486	59, 202	142-0901-811	72, 168
133-5403-101	21	134-1069-031	113, 114	142-0003-801	124	142-0403-101	45	142-0701-491	49	142-0901-816	72
133-5403-106	21	135-3302-001	6	142-0003-811	124	142-0403-106	45	142-0701-496	49	142-0901-821	72, 168
133-5404-001	21	135-3302-401	6	142-0004-201	123	142-0404-011	44	142-0701-501	51	142-0901-826	72
133-5404-006	21	135-3303-001	6	142-0004-206	123	142-0404-016	44	142-0701-506	51	142-0901-861	168

142-0901-921	72, 168	142-1711-521	67	142-4435-001	75	145-0701-001	36	415-0004-030	185	415-0016-024	183
142-0901-931	73, 168	142-1711-526	67	142-4435-006	75	145-0701-002	36	415-0004-036	185	415-0016-030	183
142-0901-941	73, 168	142-1711-531	67	142-4435-101	75	145-0701-601	35	415-0005-006	185	415-0016-036	183
142-1000-001	70	142-1711-536	67	142-4435-106	75	145-0701-602	35	415-0005-012	185	415-0017-006	183
142-1000-002	70	142-1721-001	58, 202	142-4439-001	75	145-0701-611	35	415-0005-018	185	415-0017-012	183
142-1000-003	70	142-1721-006	58	142-4439-006	75	145-0701-612	35	415-0005-024	185	415-0017-018	183
142-1000-004	70	142-1721-011	58, 202	142-4439-101	75	145-0901-801	37	415-0005-030	185	415-0017-030	183
142-1000-012	84	142-1721-016	58, 202	142-4439-106	75	145-0901-811	37	415-0005-036	185	415-0017-036	183
142-1000-018	84	142-1721-021	59, 202	142-4701-201	77	145-0901-821	37	415-0006-006	185	415-0018-006	183
142-1000-022	84	142-1721-026	59, 202	142-4701-206	77	24-302P	197	415-0006-012	185	415-0018-012	183
142-1000-033	36	142-1721-031	59, 202	142-4701-501	77	24-310	197	415-0006-018	185	415-0018-018	183
142-1403-001	40	142-1721-036	59	142-4701-506	77	24-312	197	415-0006-024	185	415-0018-024	183
142-1404-001	40	142-1721-041	59	142-4701-801	77	24-313	197	415-0006-030	185	415-0018-030	183
142-1407-001	40	142-1721-046	59	142-4701-806	77	24-318P	197	415-0006-036	185	415-0018-036	183
142-1408-001	40	142-1721-051	59	142-5303-401	80	24-321P	197	415-0007-006	185	415-0019-006	183
142-1701-011	61	142-1721-056	59, 202	142-5303-406	80	24-7710P	196	415-0007-012	185	415-0019-012	183
142-1701-016	61	142-1731-001	57	142-5304-401	80	24-7711P	196	415-0007-018	185	415-0019-018	183
142-1701-031	60	142-1731-006	57	142-5304-406	80	24-7712P	196	415-0007-024	185	415-0019-024	183
142-1701-036	60	142-1731-011	57	142-5307-401	80	24-7713P	196	415-0007-030	185	415-0019-030	183
142-1701-041	61	142-1731-016	57	142-5307-406	80	24-7732P	194	415-0007-036	185	415-0019-036	183
142-1701-046	61	142-1731-021	57	142-5308-401	80	24-7733P	194	415-0008-006	186	415-0020-006	183
142-1701-121	61	142-1731-026	57	142-5308-406	80	24-7734P	194	415-0008-012	186	415-0020-012	183
142-1701-126	61	142-1731-031	57	142-5403-001	79	24-7735P	194	415-0008-018	186	415-0020-018	183
142-1701-131	60	142-1731-036	57	142-5403-006	79	24-7736P	194	415-0008-024	186	415-0020-024	183
142-1701-136	60	142-1731-041	58	142-5403-101	79	24-7737P	194	415-0008-030	186	415-0020-030	183
142-1701-191	62	142-1731-046	58	142-5403-106	79	24-7738P	194	415-0008-036	186	415-0020-036	183
142-1701-196	62	142-1801-531	69	142-5404-001	79	24-7739P	194	415-0009-006	186	415-0021-006	183
142-1701-201	61	142-1801-536	69	142-5404-006	79	24-8789P	197	415-0009-012	186	415-0021-012	183
142-1701-206	61	142-1801-541	69	142-5404-101	79	24-8856P	197	415-0009-018	186	415-0021-018	183
142-1701-501	66	142-1801-546	69	142-5404-106	79	24-8857P	197	415-0009-024	186	415-0021-024	183
142-1701-506	66	142-1801-551	69	142-5407-001	79	24-8858P	197	415-0009-030	186	415-0021-030	183
142-1701-511	66	142-1801-556	69	142-5407-006	79	24-8859P	197	415-0009-036	186	415-0021-036	183
142-1701-516	66	142-1801-561	69	142-5407-101	79	24-8860P	195	415-0010-006	186	415-0022-006	183
142-1701-521	66	142-1801-566	69	142-5407-106	79	24-8866P	196	415-0010-012	186	415-0022-012	183
142-1701-526	66	142-1801-571	69	142-5408-001	79	24-9858P	197	415-0010-018	186	415-0022-018	183
142-1701-531	66	142-1801-576	69	142-5408-006	79	24-9859P	197	415-0010-024	186	415-0022-024	183
142-1701-536	66	142-1801-601	68	142-5408-101	79	24-9912P	197	415-0010-030	186	415-0022-030	183
142-1701-541	66	142-1801-606	68	142-5408-106	79	24-9958P	197	415-0010-036	186	415-0022-036	183
142-1701-546	66	142-1801-611	68	142-5435-001	79	24-9959P	197	415-0011-006	186	415-0023-006	183
142-1701-551	66	142-1801-616	68	142-5435-006	79	24-9960P	195	415-0011-012	186	415-0023-012	183
142-1701-556	66	142-1801-621	68	142-5435-101	79	24-9961P	197	415-0011-018	186	415-0023-018	183
142-1701-561	66	142-1801-626	68	142-5435-106	79	24-9962P	197	415-0011-024	186	415-0023-024	183
142-1701-566	66	142-1801-631	68	142-5439-001	79	24-9963P	197	415-0011-030	186	415-0023-030	183
142-1701-571	66	142-1801-636	68	142-5439-006	79	251-0111-003	277	415-0011-036	186	415-0023-036	183
142-1701-576	66	142-1801-641	68	142-5439-101	79	251-0115-002	277	415-0012-006	186	415-0024-006	184
142-1701-581	67	142-1801-646	68	142-5439-106	79	25-7958 BK	162	415-0012-012	186	415-0024-012	184
142-1701-586	67	142-1901-821	40	142-5701-201	81	25-7959 BK	162	415-0012-018	186	415-0024-018	184
142-1701-591	67	142-4303-401	76	142-5701-206	81	25-B174	162	415-0012-024	186	415-0024-024	184
142-1701-596	67	142-4303-406	76	142-5701-501	81	25-B58	162	415-0012-030	186	415-0024-030	184
142-1701-601	65	142-4304-401	76	142-5701-506	81	415-0001-006	185	415-0012-036	186	415-0024-036	184
142-1701-606	65	142-4304-406	76	142-5701-801	81	415-0001-012	185	415-0013-006	186	415-0025-006	184
142-1701-611	65	142-4307-401	76	142-5701-806	81	415-0001-018	185	415-0013-012	186	415-0025-012	184
142-1701-616	65	142-4307-406	76	142-5701-811	81	415-0001-024	185	415-0013-018	186	415-0025-018	184
142-1701-621	65	142-4308-401	76	142-5701-816	81	415-0001-030	185	415-0013-024	186	415-0025-024	184
142-1701-626	65	142-4308-406	76	142-9403-011	82	415-0001-036	185	415-0013-030	186	415-0025-036	184
142-1701-631	65	142-4403-001	75	142-9403-101	82	415-0002-006	185	415-0013-036	186	415-0025-048	184
142-1701-636	65	142-4403-006	75	142-9404-011	82	415-0002-012	185	415-0014-006	183	415-0026-006	184
142-1701-641	65	142-4403-101	75	142-9404-101	82	415-0002-018	185	415-0014-012	183	415-0026-012	184
142-1701-646	65	142-4403-106	75	142-9407-001	82	415-0002-024	185	415-0014-018	183	415-0026-018	184
142-1711-001	62	142-4404-001	75	142-9407-101	82	415-0002-030	185	415-0014-024	183	415-0026-024	184
142-1711-006	62	142-4404-006	75	142-9701-201	83	415-0002-036	185	415-0014-030	183	415-0026-036	184
142-1711-011	63	142-4404-101	75	142-9701-211	83	415-0003-006	185	415-0014-036	183	415-0026-048	184
142-1711-016	63	142-4404-106	75	142-9701-301	83	415-0003-012	185	415-0015-006	183	415-0027-006	185
142-1711-021	63	142-4407-001	75	142-9701-801	83	415-0003-018	185	415-0015-012	183	415-0027-012	185
142-1711-026	63	142-4407-006	75	142-9701-811	83	415-0003-024	185	415-0015-018	183	415-0027-018	185
142-1711-031	63	142-4407-101	75	144-0000-900	190	415-0003-030	185	415-0015-024	183	415-0027-024	185
142-1711-036	63	142-4407-106	75	144-0000-910	191	415-0003-036	185	415-0015-030	183	415-0027-036	185
142-1711-061	63	142-4408-001	75	145-0693-001	35	415-0004-006	185	415-0015-036	183	415-0027-048	185
142-1711-066	63	142-4408-006	75	145-0693-002	35	415-0004-012	185	415-0016-006	183	415-0028-006	188
142-1711-511	67	142-4408-101	75	145-0694-001	35	415-0004-018	185	415-0016-012	183	415-0028-012	188
142-1711-516	67	142-4408-106	75	145-0694-002	35	415-0004-024	185	415-0016-018	183	415-0028-018	188

Numerical Index

onlinecomponents.com
THE ONLINE DISTRIBUTOR OF ELECTRONIC COMPONENTS

INCHES (MILLIMETERS) • CUSTOMER DRAWINGS AVAILABLE ON REQUEST

415-0028-024	188	415-0041-012	185	415-0055-024	187	CP-AD204	179	CP-BNCPC-017	144	CPMC-88-3	138
415-0028-036	188	415-0041-024	185	415-0055-036	187	CP-AD206	178	CPF-11-ALM	174	CPMC-88-5	138
415-0028-048	188	415-0041-036	185	415-0055-048	187	CP-AD207	179	CPF-249-1	178	CPMC-TNC-1	165
415-0029-006	184	415-0041-048	185	415-0055-060	187	CP-AD210	179	CPF-56-ALM	174	CPMC-TNC-13	165
415-0029-012	184	415-0041-060	185	415-0056-012	187	CP-AD214	135	CPF-56-ALMWP	174	CPMC-TNC-16	165
415-0029-018	184	415-0042-012	188	415-0056-024	187	CP-AD218	135	CPF-56-ALS	174	CPMC-TNC-17	165
415-0029-024	184	415-0042-024	188	415-0056-036	187	CP-AD219	135	CPF-56-ALX	174	CPMC-TNC-2	165
415-0029-036	184	415-0042-036	188	415-0056-048	187	CP-AD250	178	CPF-56-CP	174	CPM-TNC-19	165
415-0029-048	184	415-0042-048	188	415-0056-060	187	CP-AD300	131	CPF-56-P	174	CPM-TNC-20	165
415-0030-006	184	415-0042-060	188	415-0057-012	187	CP-AD311	133	CPF-59-1/2	174	CPM-TNC-PC-002	166
415-0030-012	184	415-0043-012	184	415-0057-024	187	CP-AD312	133	CPF-59-1/4	174	CPN-1	170
415-0030-018	184	415-0043-024	184	415-0057-036	187	CP-AD313	133	CPF-59-ALM	174	CPN-142T	170
415-0030-024	184	415-0043-036	184	415-0057-048	187	CP-AD314	131	CPF-59-CP	174	CPN-16	170
415-0030-036	184	415-0043-048	184	415-0057-060	187	CP-AD355	167	CPF-59-T	175	CPN-17	170
415-0030-048	184	415-0043-060	184	415-0058-012	186	CP-AD356	167, 168	CPF-61-PC	175	CPN-2	170
415-0031-006	184	415-0044-012	184	415-0058-024	186	CP-AD500	132	CPF-61-SE	175	CPN-68-1	170
415-0031-012	184	415-0044-024	184	415-0058-036	186	CP-AD501	132	CPF-61-SR	175	CPN-68-13	170
415-0031-018	184	415-0044-036	184	415-0058-048	186	CP-AD502	132	CPF-81	175	CPN-68-8	170
415-0031-024	184	415-0044-048	184	415-0058-060	186	CP-AD503	147, 168	CPF-81-L	175	CPN-8	170
415-0031-036	184	415-0044-060	184	415-0059-012	187	CP-AD505	147, 168	CPF-81-NW	175	CPN-8/110	170
415-0031-048	184	415-0045-012	184	415-0059-024	187	CP-AD506	148, 168	CPFI-56	174	CP-SW88-10	139
415-0032-006	185	415-0045-024	184	415-0059-036	187	CP-AD507	130, 168	CPFI-UG78-2	151	CP-SW88-2	139
415-0032-012	185	415-0045-036	184	415-0059-048	187	CP-AD508	130, 168	CPFI-UG78-5	151	CP-SW88-21	140
415-0032-018	185	415-0045-048	184	415-0059-060	187	CP-AD511	147, 168	CPFI-UG88-1	139	CP-TNC-89-19-BM	166
415-0032-024	185	415-0045-060	184	415-0060-012	186	CP-AD512	132	CPFI-UG88-10	139	MINI-UHF-1	181
415-0032-036	185	415-0046-012	185	415-0060-024	186	CP-AD515	132, 168	CPFI-UG88-2	139	MINI-UHF-16	181
415-0032-048	185	415-0046-024	185	415-0060-036	186	CP-AD516	132	CPFI-UG88-3	139	MINI-UHF-17	181
415-0033-006	184	415-0046-036	185	415-0060-048	186	CP-AD517	132	CPFI-UG88-4	139	MINI-UHF-1B	181
415-0033-012	184	415-0046-048	185	415-0060-060	186	CP-AD519	145	CPFI-UG88-5	139	MINI-UHF-2	181
415-0033-018	184	415-0046-060	185	415-0061-012	187	CP-AD520	155	CPFI-UG89-2	142		
415-0033-024	184	415-0047-012	187	415-0061-024	187	CP-AD521	146	CPF-NW	175		
415-0033-036	184	415-0047-024	187	415-0061-036	187	CP-AD555	146, 168	CPL-259-1	177		
415-0033-048	184	415-0047-036	187	415-0061-048	187	CP-AD556M	146, 168	CPL-259-10	177		
415-0034-006	184	415-0047-048	187	415-0061-060	187	CP-AD557	156	CPL-259-17	177		
415-0034-012	184	415-0047-060	187	415-0062-012	186	CP-AD558	146	CPL-259-18	177		
415-0034-018	184	415-0048-012	187	415-0062-024	186	CP-AD580	147	CPL-259-2	177		
415-0034-024	184	415-0048-024	187	415-0062-036	186	CP-AD582	130, 168	CPL-259-7	177		
415-0034-036	184	415-0048-036	187	415-0062-048	186	CP-AD583	130, 168	CPL-259-8	177		
415-0034-048	184	415-0048-048	187	415-0062-060	186	CP-AD584	156	CPL-259-9	177		
415-0035-006	184	415-0048-060	187	415-0063-012	186	CP-AD585	160	CPM-88-19	138		
415-0035-012	184	415-0049-012	187	415-0063-024	186	CP-AD586	160	CPM-88-19A/S	138		
415-0035-018	184	415-0049-024	187	415-0063-036	186	CP-AD587	160	CPM-88-20	138		
415-0035-024	184	415-0049-036	187	415-0063-048	186	CP-AD705	156	CPMC-68-10	159		
415-0035-036	184	415-0049-048	187	415-0063-060	186	CP-AD800	168, 172	CPMC-68-18	159		
415-0035-048	184	415-0049-060	187	99-7732B	194	CP-AD801	172	CPMC-68-2	159		
415-0036-006	185	415-0050-012	187	99-7733B	194	CP-AD806	131	CPMC-68-20	159		
415-0036-012	185	415-0050-024	187	99-7734	194	CP-AD807	131	CPMC-68-3	159		
415-0036-018	185	415-0050-036	187	99-7735	194	CP-AD808	134	CPMC-68-33	159		
415-0036-024	185	415-0050-048	187	99-7737	194	CP-AD809	131, 168	CPMC-68-34	159		
415-0036-036	185	415-0050-060	187	99-7739	194	CP-AD810	134, 168	CPMC-68-35	159		
415-0036-048	185	415-0051-012	187	99-8860	195	CP-AD817	134, 168	CPMC-68-36	159		
415-0037-012	188	415-0051-024	187	CP-1094-AST	145	CP-AD818	134, 168	CPMC-68-45	159		
415-0037-024	188	415-0051-036	187	CP-1094-U	145	CP-AD819	134, 168	CPMC-68-5	159		
415-0037-036	188	415-0051-048	187	CP-625U	145	CP-AD821	161	CPMC-68-50	159		
415-0037-048	188	415-0051-060	187	CP-78-10	151	CP-AD822	161	CPMC-78-10	151		
415-0037-060	188	415-0052-012	187	CP-78-2	151	CP-AD850	168, 172	CPMC-78-18	151		
415-0038-012	184	415-0052-024	187	CP-78-5	151	CP-AD851	168, 172	CPMC-78-2	151		
415-0038-024	184	415-0052-036	187	CP-79-20BM1	152	CP-BNC-BM-001	155	CPMC-78-20	151		
415-0038-036	184	415-0052-048	187	CP-79-20BM2	152	CP-BNC-CAP-1	148	CPMC-78-3	151		
415-0038-048	184	415-0052-060	187	CP-88-1	139	CP-BNCPC-001	143	CPMC-78-5	151		
415-0038-060	184	415-0053-012	187	CP-88-10	139	CP-BNCPC-004	153	CPMC-88-1	138		
415-0039-012	184	415-0053-024	187	CP-88-2	139	CP-BNCPC-005	143	CPMC-88-10	138		
415-0039-024	184	415-0053-036	187	CP-88-3	139	CP-BNCPC-006	153	CPMC-88-11	138		
415-0039-036	184	415-0053-048	187	CP-88-4	139	CP-BNCPC-007	143	CPMC-88-13	138		
415-0039-048	184	415-0053-060	187	CP-88-5	139	CP-BNCPC-008	153	CPMC-88-14	138		
415-0039-060	184	415-0054-012	187	CP-88T-75	157	CP-BNCPC-009	144	CPMC-88-17	138		
415-0040-012	184	415-0054-024	187	CP-89-1	142	CP-BNCPC-010	153	CPMC-88-18	138		
415-0040-024	184	415-0054-036	187	CP-89-19BM1	141	CP-BNCPC-012	154	CPMC-88-19	138		
415-0040-036	184	415-0054-048	187	CP-89-2	142	CP-BNCPC-013	144	CPMC-88-2	138		
415-0040-048	184	415-0054-060	187	CP-89-27BM2	141	CP-BNCPC-014	154	CPMC-88-21	138, 140		
415-0040-060	184	415-0055-012	187	CP-AD103	135	CP-BNCPC-016	154	CPMC-88-26	138		

Emerson Network Power Connectivity Solutions is a global manufacturer of a broad line of connectivity products and services supporting wireline and wireless communications, data networking, test and measurement, military, medical, broadcast and industrial applications. Connectivity Solutions delivers custom-engineered products and solutions with best-in-class service and support and customer-focused offers such as quick-turn prototyping, samples and supply chain management.

OEM Cable Assemblies

Custom-designed solutions for Multiconductor, Flat Ribbon, Wire Harness, Coaxial, D-sub, SCSI and discrete assemblies. Design support, molding, polarizing, custom shielding and testing capabilities.



Telecom/Broadband Cable Assemblies

Custom solutions for the Telecom, Data and Broadband markets. Expert in 50 position telco cables, coax assemblies and analog filter products. Quick delivery capabilities.



CATV Components

Residential and multi-unit amplifiers, security terminators, and drop splitters and passives. Headend signal management products and fiber optic connectivity for headend and optical node applications and return path test equipment.



EMERSON
Network Power
Connectivity Solutions



Precision Coaxial Connectors and Cable Assemblies

Subminiature, microminiature, miniature and standard connectors, and custom assemblies, including SMA, SMB, 40 GHz-capable SMK, MCX, MMCX, BNC and N Connectors. Custom designs and modifications of standard products.



Multi-purpose Connectivity and Structured Wiring

Commercial-grade connectors, including F Connectors, BNC and TNC. Structured wiring components, including CAT 5E/6 assemblies, patch panels, wallplates and tools for data communications installations. USB and Audio/Video cables, D-sub connectors, adapters and hardware.



Fiber Optic Cable Assemblies and Components

High performance multimode and single mode fiber patch cords, multi-fiber assemblies and attenuators. Solutions for the Storage Area Network and Enterprise computing markets and for ESCON™, optical FibreChannel, Infiniband and Parallel Optics applications.