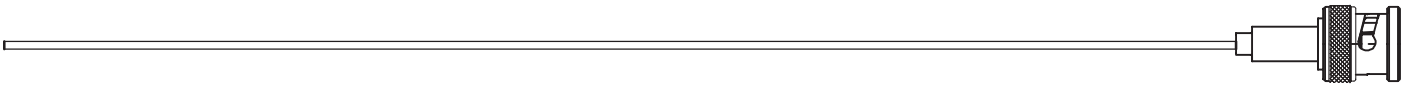
BNC 50 Ω

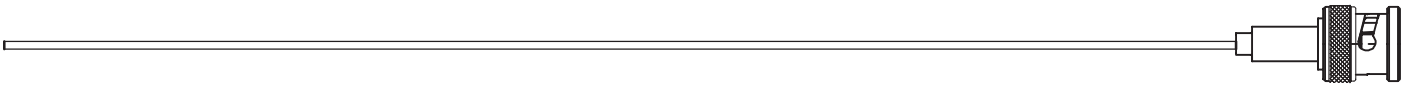
CHARACTERISTICS



TEST/CHARACTERISTICS		STANDARD REFERENCE	VALUES/REMARKS		
ELECTRICAL CHARACTERISTICS					
Impedance			50 Ω		
Frequency range			DC-4 GHz		
Typical V.S.W.R. *Straight models cable group :* *Right angle models*	 *2/50, 2.6/50, 5/50, 10 + 11/50, .141”* *2/50, 2.6/50, 5/50,*		1 GHz 1.12 1.13	2.5 GHz 1.18 1.30 max 1.20	4 GHz 1.22 1.22
Insertion loss	*straight connector* *right-angle connector*		0.05 0.08	0.07 0.16	0.13 0.20
RF Leakage			- 55 dB min from 2 to 3 GHz		
Insulation resistance			5000 MΩ min	5000 MΩ min	5000 MΩ min
Contact resistance	*center contact* *outer contact*	MIL	1.5 mΩ 0.2 mΩ		
Working voltage in VRMS	*at sea level* *(at 21 000m)*		500 125		
Dielectric withstanding voltage in VRMS *at sea level* *(at 21 000m)*			 1500 375		
RF testing voltage in VRMS	*sea level (5 MHz)*		1000		
MECHANICAL CHARACTERISTICS					
Durability		MIL	500 matings		
Force to engage and disengage	*axial* *torque*		13.6 N max 28.6 Ncm		
Coupling nut retention force			445 N		
Cable retention force	*cable 2/50, 2.6/50* *cable 5/50, 10 + 11/50* *cable .141”*		227 N		
Center contact retention force			27.2 N		
ENVIRONMENTAL CHARACTERISTICS					
Temperature range	*flexible cables* *semi-rigid cables*	MIL	- 65°C + 165°C - 65°C + 105°C		
Thermo cycling test			MIL STD 202, method 107, condition B		
Thermal shock			MIL STD 202, method 107, condition B		
Hight temperature endurance			MIL STD 202, method 108		
Corrosion salt spray			MIL STD 202, method 101, condition B		
Vibration			MIL STD 202, method 204, condition B		
Shock			MIL STD 202, method 213, condition G		
Moisture resistance			MIL STD 202, method 106		
Hermetic test			MIL STD 202, method 112, condition C vacuum 10^{-6} Hgmm (Torr) leakage rate $< 10^{-6}$ atm/cm^3/s		
Barometric pressure			Pressure test : 3.5 bars; duration : 2 mn; temperature : 15° C to 25 °C		

BNC 50 Ω

CHARACTERISTICS



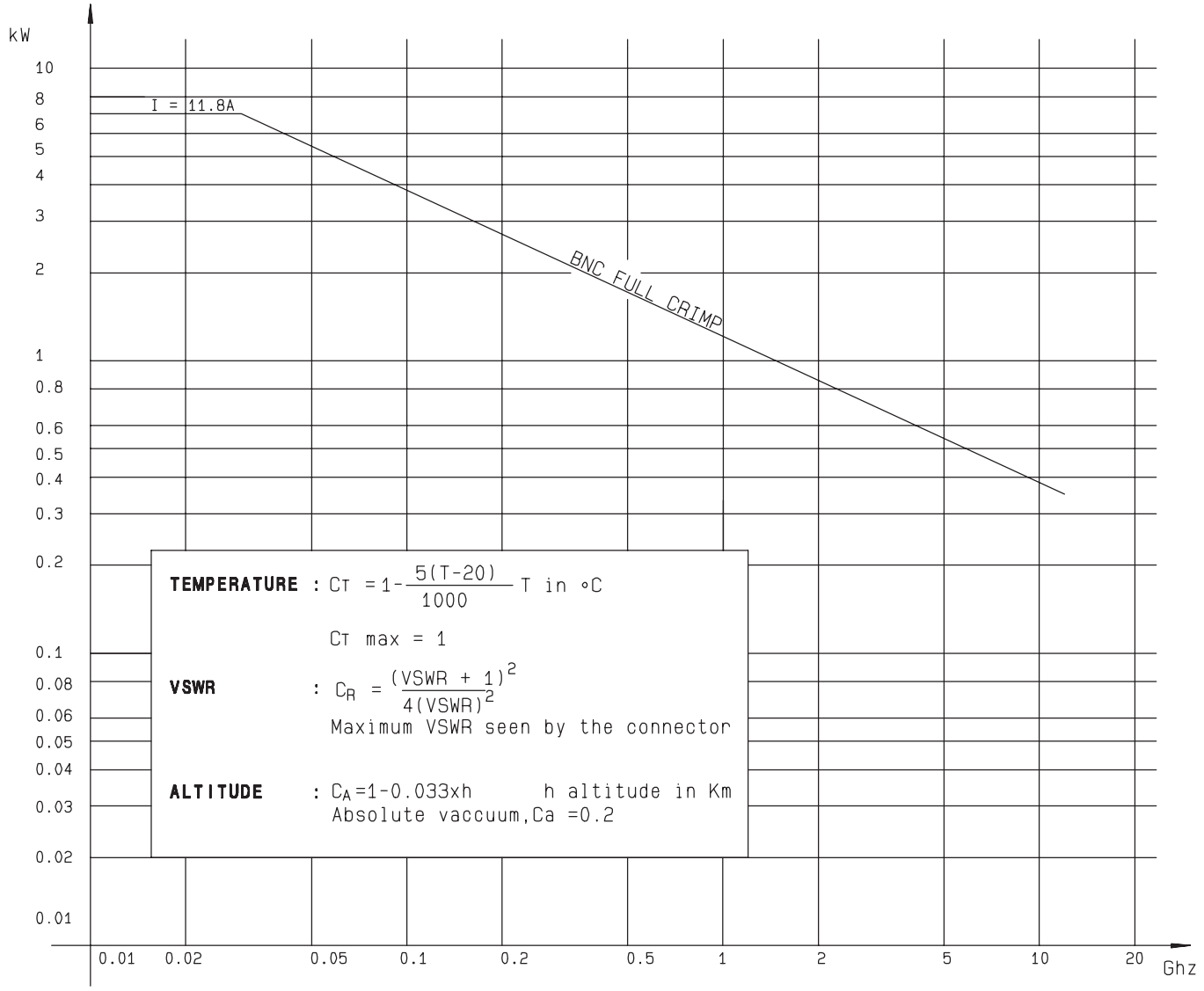
MATERIALS

Bodies			Brass
Center contact	*male* *female*		Brass Bronze or heat treated beryllium following QQ-C-530
Nut			Brass
Insulator			PTFE
Gasket			Silicon rubber

PLATINGS

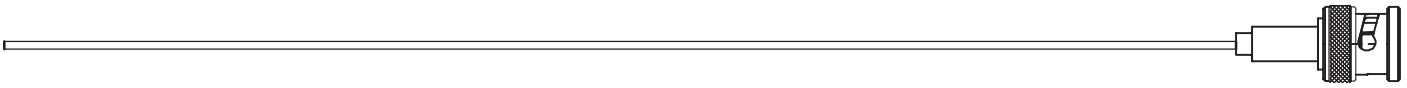
Bodies		Nickel
Center contacts		Gold

POWER RATING



Standard packaging : unit

All dimensions are given in mm.



STRAIGHT BULKHEAD JACKS CLAMP TYPE

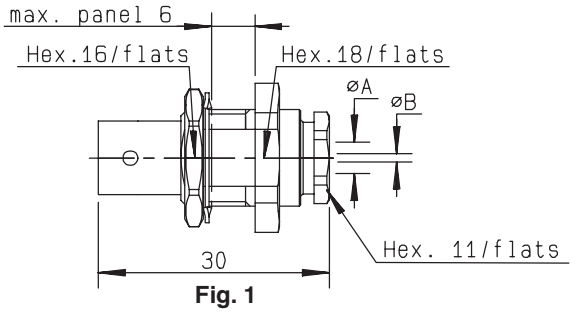


Fig. 1

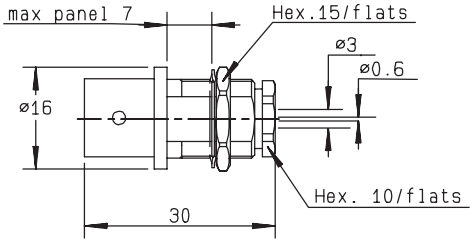


Fig. 2

cable	part number	fig.	dimensions		captive center contact	assembly	cut out	note
			A	B				
2 /50/ S	**R141 323 000***	1	2.2	0.6	yes	M02	P05	fully sealed
2.6 /50/ S	**R141 304 000***	2			yes	M02	P05	fully sealed
2.6 /50/ S	**R141 324 000**	1	3.1	0.6	yes	M02	P05	fully sealed
5 /50/ S + D	**R141 327 000***	1	5.6	1.05	no	M01	P05	panel sealed
.141"	**R141 338 000●**	1	3.65	1.05	no	M10	P05	panel sealed/semi-rigid cable

STRAIGHT BULKHEAD JACKS CRIMP TYPE FOR FLEXIBLE CABLES

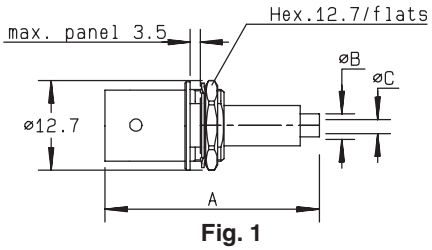


Fig. 1

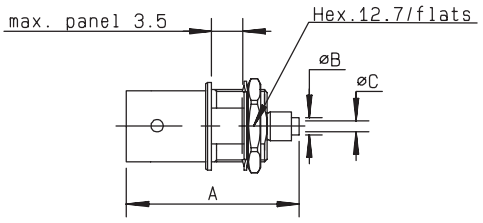


Fig. 2

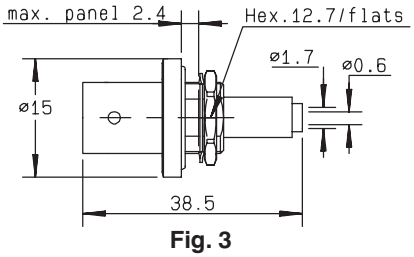


Fig. 3

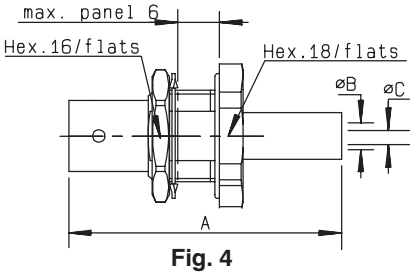


Fig. 4

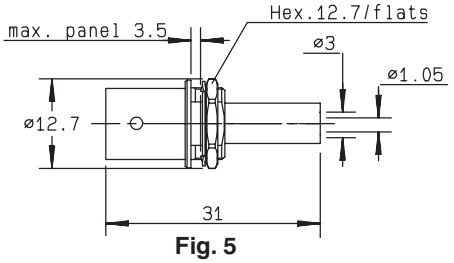


Fig. 5

cable	part number	fig.	dimensions			captive center contact	assembly	cut out	note
			A	B	C				
2 /50/ S	**R141 303 503●***	2	25.4	2	0.4	yes	M12	P07	reverse crimping
2 /50/ D	**R141 301 000●**	1	33.35	1.1	0.6	yes	M05	P07	
2.6 /50/ S	**R141 306 000***	1	34	1.7	0.6	yes	M05	P07	
2.6 /50/ S	**R141 306 503**	2	26	2.95	0.6	yes	M12	P07	reverse crimping
2.6 /50/ S	**R141 331 400●**	3				yes	M05	P07	panel sealed
2.6 /50/ S	**R141 331 500***	4	38.5	1.7	0.6	yes	M05	P09	panel sealed
5 /50/ S	**R141 308 000**	5	31	3	1.05	yes	M07	P07	single piece body
5 /50/ S	**R141 332 500**	4	35.5	3.1	1.05	yes	M07	P05 or P09	panel sealed/single piece body

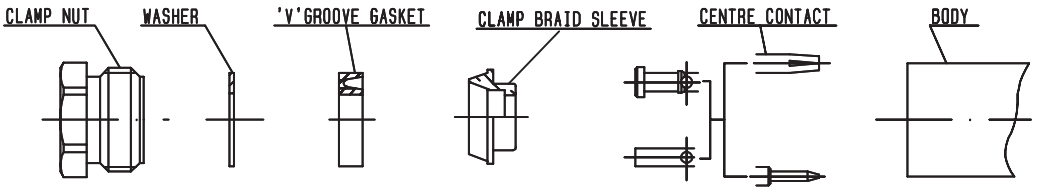
For others types of cables (75Ω, 93Ω or BT cables), please see "additional connectors" on page 36-37.

● Upon request

* Packaging = 100 pieces.

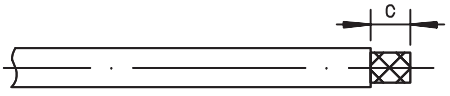
ASSEMBLY INSTRUCTIONS

M 01



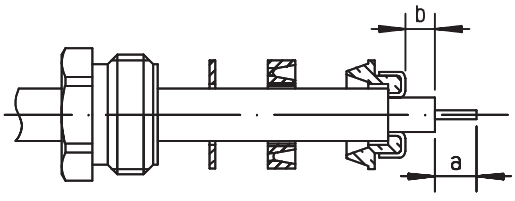
P/N	STRIPPING DIM. a	b	c	RECOMMENDED COUPLING TORQUE
R141 009 000 **R141 010 000**	4.5	2.5	8.5	450 N.cm
R141 013 000	5.5	0.5	6	
R142 016 000	2.5	3	7	
R141 018 000 **R142 018 000**	3	1	9	
R141 156 000 **R142 157 000**	2.5	3	7	
R141 207 000	3	1	9	
R141 208 000 **R141 258 000** **R141 259 000** **R142 268 000** **R141 327 000** **R142 329 000**	2.5	3	7	

1



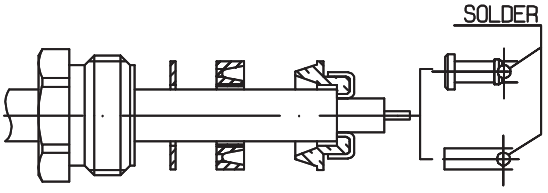
1.1 Strip the cable .

2



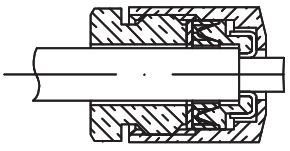
2.1 Slide the clamp nut , the washer and the 'V'groove gasket onto the cable .
2.2 Slide clamp braid sleeve over braid .
2.3 Fold back braid and trim off excess braid .
2.4 Trim back dielectric as shown .

3



3.1 Solder the cable inner conductor into centre contact .

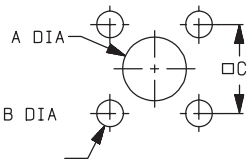
4



4.1 Screw sub-assembly into the connector body .

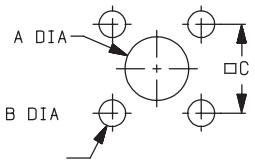
PANEL CUT OUT

P01



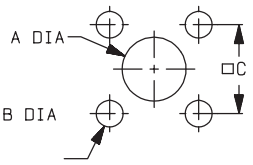
	MM maxi	MM mini	
A	11.3	11.2	Mont AV
A	13	12.9	Mont AR
B	2.7	2.6	
C	12.75	12.65	

P02



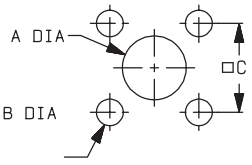
	MM maxi	MM mini
A	13.3	13.2
B	2.7	2.6
C	12.75	12.65

P03



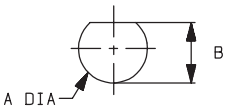
	MM maxi	MM mini	
A	11.3	11.2	Mont AV
A	8.6	8.5	Mont AR
B	3.4	3.3	
C	12.75	12.65	

P04



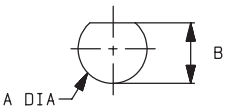
	MM maxi	MM mini
A	11.3	11.2
B	3.3	3.2
C	12.75	12.65

P05



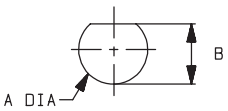
	MM maxi	MM mini
A	12.8	12.7
B	12.1	12

P07



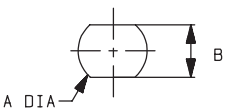
	MM maxi	MM mini
A	9.7	9.6
B	8.9	8.8

P08



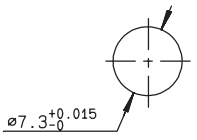
	MM maxi	MM mini
A	12.8	12.7
B	10.85	10.75

P09

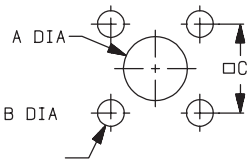


	MM maxi	MM mini
A	12.8	12.7
B	10.9	10.8

P10

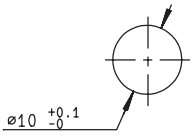


P11

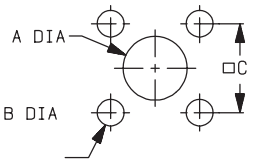


	MM maxi	MM mini	
A	8	7.9	Mont. AV
A	11.3	11.2	Mont. AR
B	2.8	2.7	
C	12.75	12.65	

P12

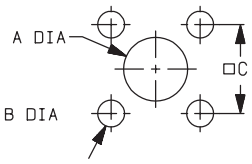


P13



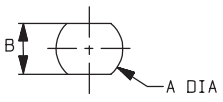
	MM maxi	MM mini
A	9	8.8
B	3.3	3.2
C	18.35	18.25

P14



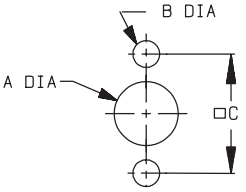
	MM maxi	MM mini	
A	9.3	9.2	Mont. AV
A	11.3	11.2	Mont. AR
B	2.7	2.6	
C	12.75	12.65	

P15



	MM maxi	MM mini
A	12.9	12.8
B	11.3	11.2

P16



	MM maxi	MM mini
A	9.3	9.2
B	3.3	3.2
C	17.95	18.05