

RF178 SERIES

50Ω RG 178 CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?RF178

RF Connector:

Outer Contact Material:

Au plated Brass (SMA & SMB)
Au plated BeCu
(MCX, MMCX & SSMB)
Nickel (BNC & TNC)

Center Contact Material:

Au plated Brass
(MCX-P, MMCX-P, BNC, TNC & SMB)
Au plated BeCu
(SMA-J, MCX-J & SSMB)

Insulator Material:

PTFE

Operating Temperature:

-50°C to +165°C

Frequency Range:

0~5 GHz
(Connector dependent)

Insulator Resistance:

5,000 MΩ

Impedance:

50Ω

RoHS Compliant:

Yes

RG 178 Cable:

Impedance:

50Ω

Capacitance:

89.61 pF/meter

Propagation Delay:

4.83 nsec/meter

Max Attenuation

(cable only):

1.7dB @ 1GHz for 1 meter

Conductor Size:

30 AWG, (0.31 mm) .012" dia.

Conductor Material:

Silver Plated Copper

Conductor Resistance:

0.34Ω/meter max

Current Rating:

3A DC

Insulator Diameter:

(0.86 mm) .034"

Insulator Material:

PTFE

Dielectric Constant:

2.1dK

Shield Material:

Silver Plated Copper Clad Steel

Jacket Material:

FEP

Jacket Diameter:

(1.80 mm) .071"

Jacket Temp Rating:

-50°C to +165°C

Jacket Color:

Amber

RoHS Compliant:

Yes

Mates with:
MCX, MMCX, SSMB,
BNC5, TNC, SMA,
SMB, NTPPE

**RF Cable
Builder**

Quickly...Build a cable.
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www.samtec.com/rfbuilder

RF178-02RP1-01BJ1-0200

RF178-02SP1-02RP1-0300

Light Gauge 30 AWG
RG 178 coax cable

2.1dK

SMA, MCX, MMCX,
SSMB, SMB, BNC, TNC
and N Type End Options

Standard Heat
Shrink

CABLE TYPE

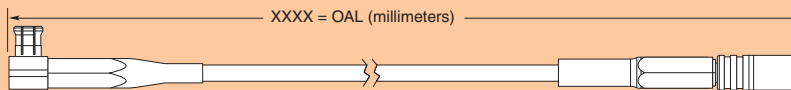
END 1
CONNECTOR

END 2
CONNECTOR

RF178

= RG 178 Cable

Specify END OPTIONS from chart



-02RP1-S7SP4 SHOWN

END OPTIONS

-01BJ1 = SMA,
Straight Bulkhead Jack

-01BR1 = SMA,
Straight Bulkhead Jack,
Reversed Polarity

-02SJ1 = MCX,
Straight Jack

-02RP1 = MCX,
Right Angle Plug

-02SP1 = MCX,
Straight Plug

END OPTIONS

-03SP1 = MMCX,
Straight Plug

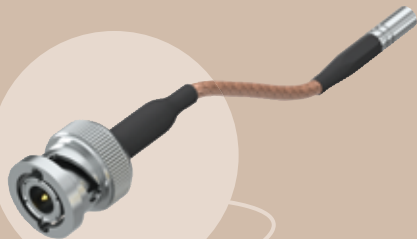
-03RP1 = MMCX,
Right Angle Plug

-S7SP4 = SSMB,
Straight Plug

-S7RP4 = SSMB,
Right Angle Plug

Due to technical progress, all designs, specifications and components are subject to change without notice.

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RF178-04SP3-S7SP4-0100

RF178-01BJ1-S7RP4-0200

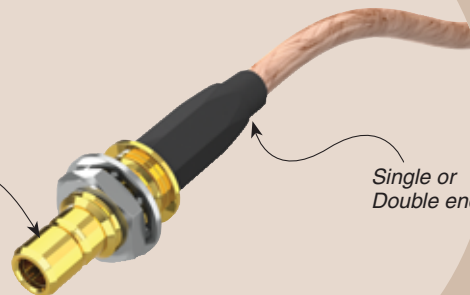


RF178-07BJ2-03SP1-0200

Straight or
Right Angle



Variety of
Bulkhead Jacks



Single or
Double ended

ALSO AVAILABLE

- IP67 TNC option.
 - Cable Connector Kits.
 - Additional end connector combinations.
 - Additional plating options available.
- Call Samtec.

OVERALL LENGTH

—“XXXX”

= Overall Length in millimeters -0100 (100 mm) 3.94" minimum

END OPTIONS	
-04SP3 = BNC, Straight Plug	
-05SP3 = TNC, Straight Plug	
-04BJ2 = BNC, Straight Bulkhead Jack	
-07BJ2 = SMB, Straight Bulkhead Jack	

END OPTIONS	
05BJ3 = TNC, Straight Bulkhead Jack	
-06BJ3 = N Type, Straight Bulkhead Jack	
-SING = Single Ended (End 2 Callout)	
XXXXXX = Stripped & Tinned (End 2 Callout)	

STRIPPED & TINNED (Dimensions in mm)

CALLOUT	A	B	C
-303030	3.0	3.0	3.0
-303040	3.0	3.0	4.0
-403030	4.0	3.0	3.0
-403040	4.0	3.0	4.0
-404040	4.0	4.0	4.0

Both center conductor and braid shield are stripped, only the center conductor is tinned.
Call Samtec for other sizes or tinning options.

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