



# 50 $\Omega$ 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) Nickel (BNC & TNC)

### Center Contact Material:

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

PTFE

Operating Temperature: -50 °C to +165 °C Frequency Range:

0~5 GHz (Connector dependent) Impedance:

RoHS Compliant:

#### RG 178 Cable:

Impedance:

Capacitance: 96 pF/meter

**Propagation Delay:** 

4.83 nsec/meter Max Attenuation

(cable only):
1.7 dB @ 1 GHz for 1 meter
Conductor Size:
30 AWG, (0.31 mm) .012" dia.
Conductor Material: Silver Plated Copper **Conductor Resistance:** 

0.34 Ω/meter max

**Current Rating:** 

Insulator Diameter: (0.86 mm) .034" Insulator Material:

Dielectric Constant:

Shield Material:

Silver Plated Copper Clad Steel Jacket Material:

Jacket Diameter: (1.80 mm) .071"

Jacket Temp Rating:

-50 °C to +165 °C Jacket Color:

Amber **Bend Radius:** 

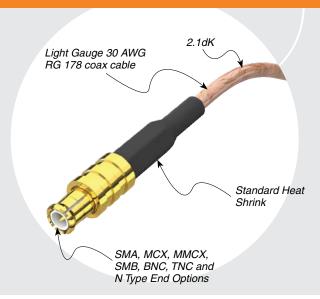
RoHS Compliant:

Mates with:

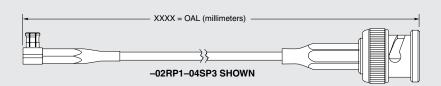
MCX, MMCX, BNC5, TNC, SMA, SMB5

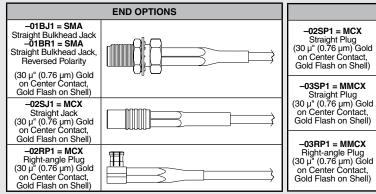


- Create a full system: cable assembly and board level mates, 50  $\Omega$  and 75  $\Omega$  solutions
- Free samples available
- Visit: rf.samtec.com









**END OPTIONS** 

WWW.SAMTEC.COM





RF178-07BJ2-03SP1-0200

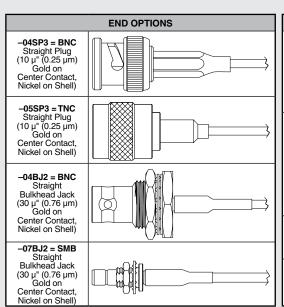
**RF178 SERIES** 



#### **OVERALL LENGTH**

#### -"XXXX"

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



END OPTIONS				
-05BJ3 = TNC Straight Bulkhead Jack (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)				
-06BJ2 = N Type Straight Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)				
-SING = Single Ended (End 2 Callout)	<b>(</b>			
XXXXXX = Stripped & Tinned (End 2 Callout)	+ B + + C+ + A +			

## STRIPPED & TINNED (Dimensions in mm)

CALLOUT	Α	В	С
-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.

# **Mouser Electronics**

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### Samtec:

RF178-03SP1-03RP1-0354