

RF174-07SP1-01BJ1-0300



RF174-01RP1-02RP1-0200

50Ω RG 174 CABLE ASSEMBLIES

SPECIFICATIONS

For complete specifications see www.samtec.com?RF174

RF Connector:

Outer Contact Material:
 Ni plated Brass (BNC)
 Au plated Brass (SMB & SMA)
 Au plated BeCu (MCX & MMCX)
Center Contact Material:
 Au plated Brass (BNC-P, MCX-P, MMCX-P & SMA-P)
 Au plated BeCu (SMB-P & SMA-J)
 Au plated Phos. Bronze (BNC-J)
Insulator Material:
 PTFE

Operating Temperature:
 -50°C to +90°C

Insulator Resistance:
 5,000 MΩ

Impedance:
 50Ω

Frequency Range:
 0-6 GHz
 (Cable & connector dependent)

RoHS Compliant:
 Yes

RG 174 Cable:

Impedance:
 50Ω
Capacitance:
 101.024 pF/meter
Max Attenuation (cable only):
 1.4dB @ 1 GHz for 1 meter
Conductor Size:
 26 AWG, (0.48 mm) .019" dia.
Conductor Material:
 Copper
Insulator Material:
 LEP
Shield Material:
 Tin Copper
Jacket Material:
 PVC
Jacket Diameter:
 (2.70 mm) .106"
Jacket Color:
 Black
Bend Radius:
 25.4 mm
RoHS Compliant:
 Yes

Mates with:
 MCX, MMCX, MMCXV,
 SMA, SMB5, BNC5,
 TNC, NTPPE

THINK OUTSIDE THE CATALOG

- Create a full system: cable assembly and board level mates, 50Ω and 75Ω solutions
- 24-hour samples on standard products
- Visit: rf.samtec.com



Standard performance 26 AWG
 RG 174 coax cable

2.3dK

Plugs and
 Jacks

Straight or
 Right Angle

Single or
 Double Ended

CABLE TYPE

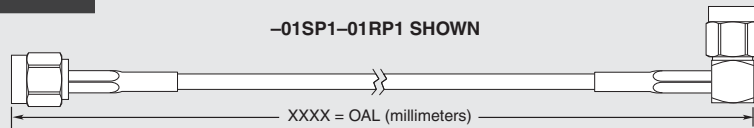
END 1
 CONNECTOR

END 2
 CONNECTOR

RF174
 = RG 174 Cable

Specify END OPTIONS from chart

-01SP1-01RP1 SHOWN

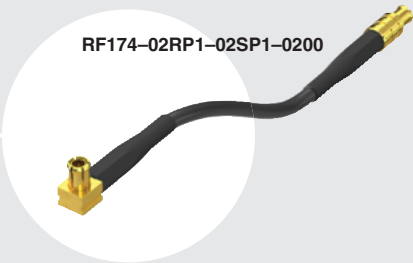


END OPTIONS	
-01SP1 = SMA Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-01RP1 = SMA Right Angle Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-07SP1 = SMB Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-07RP1 = SMB Right Angle Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-02SJ1 = MCX Straight Jack (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	

END OPTIONS	
-02RP1 = MCX Right Angle Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-02SP1 = MCX Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-03SP1 = MMCX Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-03RP1 = MMCX Right Angle Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
-V3SP1 = MMCXV Straight Plug, High Vibration (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)	
-V3RP1 = MMCXV Right Angle Plug, High Vibration (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)	
-V3SJ1 = MMCXV Straight Jack, High Vibration (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)	



RF174-03RP1-07RP1-0200



RF174-02RP1-02SP1-0200



RF174-04BJ2-07SP1-0100

RF174 SERIES



ALSO AVAILABLE
(MOQ Required)

- Additional stripping and tinning options
- IP67 TNC option
- Additional plating options
- Additional end connector combinations
- Knurled nuts with BNC option

Contact Samtec.



OTHER SOLUTIONS

- Cable connector kits (see cable components catalog pages)

OVERALL LENGTH

—“XXXX”

= Overall Length in millimeters -0100 (100 mm) minimum
(Cable lengths larger than 1000 millimeters are not supported by S.I. Test data)

END OPTIONS		END OPTIONS		END OPTIONS																								
<p>-04SP3 = BNC Straight Plug (10µ" (0.25 µm) Gold on Center Contact, Nickel on Shell)</p>		<p>-01PN1 = SMA 4-Hole Panel Mount Jack (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)</p>		<p>-SING = Single Ended (End 2 Callout)</p>																								
<p>-05SP3 = TNC Straight Plug (10µ" (0.25 µm) Gold on Center Contact, Nickel on Shell)</p>		<p>-04BJ2 = BNC Bulkhead Jack (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)</p>		<p>XXXXXX = Stripped & Tinned (End 2 Callout)</p>																								
<p>-07BJ1 = SMB Bulkhead Jack (30µ" (0.76 µm) Gold on Center Contact, Gold flash on Shell)</p>		<p>-05BJ3 = TNC Bulkhead Jack (10µ" (0.25 µm) Gold on Center Contact, Nickel on Shell)</p>		<p>STRIPPED & TINNED (Dimensions in mm)</p> <table border="1"> <thead> <tr> <th>CALLOUT</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>-303030</td> <td>3.0</td> <td>3.0</td> <td>3.0</td> </tr> <tr> <td>-303040</td> <td>3.0</td> <td>3.0</td> <td>4.0</td> </tr> <tr> <td>-403030</td> <td>4.0</td> <td>3.0</td> <td>3.0</td> </tr> <tr> <td>-403040</td> <td>4.0</td> <td>3.0</td> <td>4.0</td> </tr> <tr> <td>-404040</td> <td>4.0</td> <td>4.0</td> <td>4.0</td> </tr> </tbody> </table> <p>Both center conductor and braid shield are stripped, only the center conductor is tinned.</p>	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
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<p>-01BJ1 = SMA Straight Bulkhead Jack -01SB1 = SMA Straight Bulkhead Jack, Sealed -01SR1 = SMA Straight Bulkhead Jack, Sealed, Reversed Polarity -01BR1 = SMA Straight Bulkhead Jack, Reversed Polarity (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)</p>		<p>-06BJ2 = N Type Bulkhead Jack (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)</p>																										

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