

RF174 SERIES

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 & SSMB)

Center Contact Material:

Au plated Brass (BNC-P, MCX-P,
MMCX-P & SMA-P)

Insulator Material:

PTFE
Au plated BeCu
(SMB-P, SMA-J & SSMB)
Au plated Phos. Bronze (BNC-J)

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 @ 1GHz 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

RoHS Compliant:

Yes

Mates with:

MCX, MMCX, MMCXV,
SMA, SMB5, SSMB,
BNC5, TNC, NTPF

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



RF174-07SP1-01BJ1-0300

RF174-01RP1-02RP1-0200

Standard performance 26 AWG
RG 174 coax cable

2.3dK

Plugs and
Jacks

Single or
Double Ended

Straight or
Right Angle

CABLE TYPE

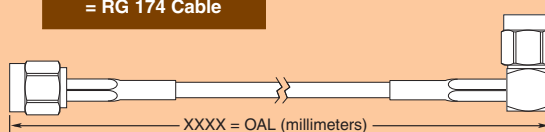
END 1 CONNECTOR

END 2 CONNECTOR

RF174

= RG 174 Cable

Specify END OPTIONS from chart



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

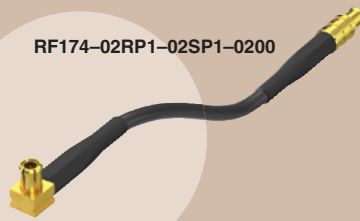
-02RP1 = MCX Right Angle Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-02SP1 = MCX Straight Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-03SP1 = MMCX Straight Plug (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-03RP1 = MMCX Right Angle Plug (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)	
-S7SP4 = SSMB Straight Plug (10μ" (0,25 μm) Gold on Center Contact, Nickel on Shell)	
-S7RP4 = SSMB Right Angle Plug (10μ" (0,25 μm) Gold on Center Contact, Nickel on Shell)	

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

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RF174-03RP1-07RP1-0200

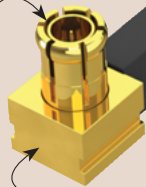


RF174-02RP1-02SP1-0200



RF174-04BJ2-07SP1-0100

Heavy Gold plated



Choice of RF connector styles

Standard heat shrink wraps

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.

Variety of Bulkhead Jacks



Single or Double ended

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

-04SP3 = BNC Straight Plug (10μ" (0,25 μm) Gold on Center Contact, Nickel on Shell)	
-05SP3 = TNC Straight Plug (10μ" (0,25 μm) Gold on Center Contact, Nickel on Shell)	
-07BJ1 = SMB Bulkhead Jack (30μ" (0,76 μm) Gold on Center Contact, Gold flash on Shell)	
-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)	

END OPTIONS

-01PN1 = SMA Straight Panel Mount Jack (30μ" (0,76 μm) Gold on Center Contact, Gold Flash on Shell)	
-04BJ2 = BNC Bulkhead Jack (30μ" (0,76 μm) Gold on Center Contact, Nickel on Shell)	
-05BJ3 = TNC Bulkhead Jack (10μ" (0,25 μm) Gold on Center Contact, Nickel on Shell)	
-06BJ2 = N Type Bulkhead Jack (30μ" (0,76 μm) Gold on Center Contact, Nickel on Shell)	

END OPTIONS

-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.

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