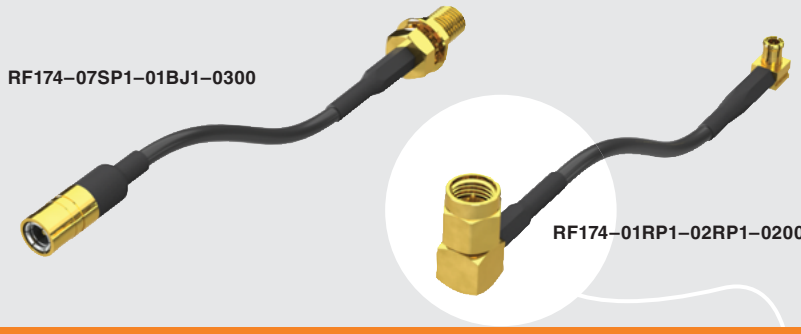


50Ω RG 174 CABLE ASSEMBLIES

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:

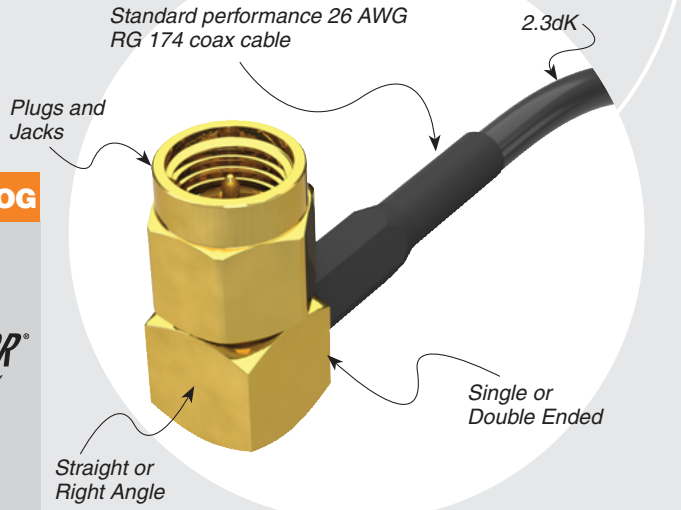
Impedance:
50Ω
Capacitance:
101.024 pF/meter
Max Attenuation (cable only):
1.4dB @ 1 GHz for 1 meter
Conductor Size:
26 AWG, (0.48 mm) .019" dia.
Conductor Material:
Copper
Insulator Material:
LEP
Shield Material:
Tin Copper
Jacket Material:
PVC
Jacket Diameter:
(2.70 mm) .106"
Jacket Color:
Black
Bend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

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

THINK OUTSIDE THE CATALOG

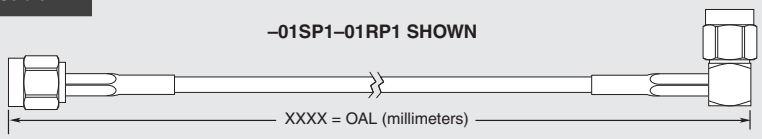
- Create a full system: cable assembly and board level mates, 50Ω and 75Ω solutions
- 24-hour samples on standard products
- Visit: rf.samtec.com

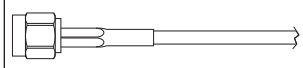
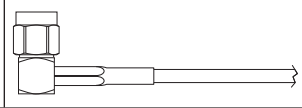
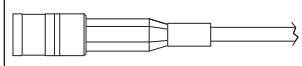
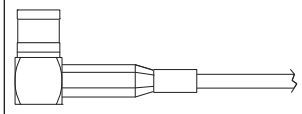
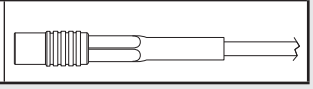
SOLUTIONATOR®
DESIGN IN A MINUTE • SAMPLE IN A DAY

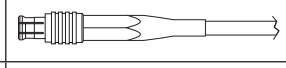
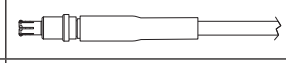
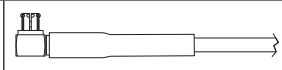
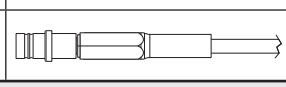


CABLE TYPE	END 1 CONNECTOR	END 2 CONNECTOR
RF174 = RG 174 Cable	Specify END OPTIONS from chart	

–01SP1–01RP1 SHOWN

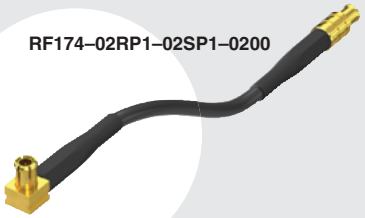


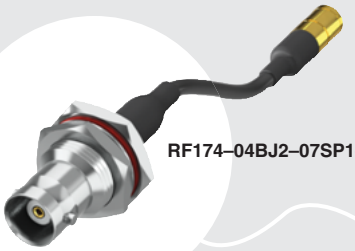
END OPTIONS	
–01SP1 = SMA Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
–01RP1 = SMA Right Angle Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
–07SP1 = SMB Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)	
–07RP1 = SMB Right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

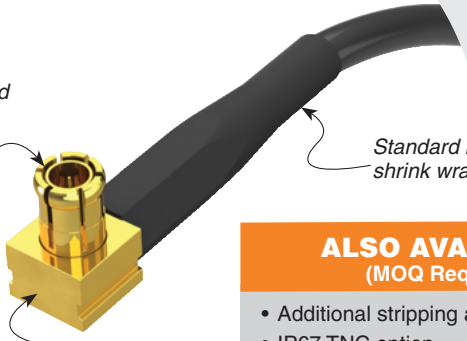
Due to technical progress, all designs, specifications and components are subject to change without notice.


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.

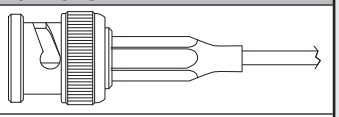
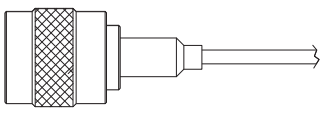
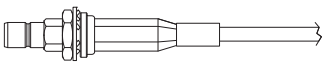
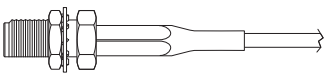


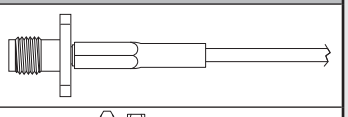
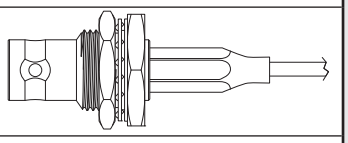
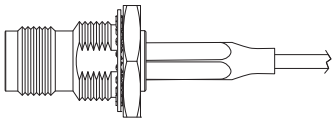
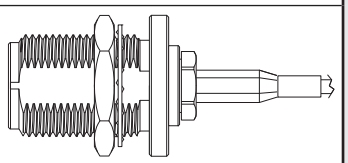
OTHER SOLUTIONS

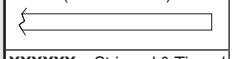
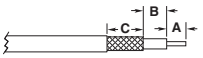
- Cable connector kits (see cable components catalog pages)

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	
–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 4-Hole 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.

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