

50Ω RF CABLE ASSEMBLIES RF174, RF316 SERIES

SPECIFICATIONS

For complete specifications see www.samtec.com?RF174 or www.samtec.com?RF316

RF Connector:

Shell Material: Brass
 Contact Material: Brass
 Operating Temperature: -65°C to +165°C
 Voltage Rating: 170V max
 Dielectric Withstanding Voltage: 750 Vrms
 Contact Resistance: Center Contact: 6mΩ max
 Outer Contact: 2mΩ max
 Insulator Resistance: 5,000 MΩ
 Impedance: 50Ω
 RoHS Compliant: Yes

RG 174 Cable:

Impedance: 50Ω
 Capacitance: 101.024pF/meter
 Propagation Delay: 5.06 nsec/meter
 Max Attenuation (cable only): 1.4dB @ 1GHz for 1 meter
 Conductor Size: 26 AWG, (0.48mm) .019" dia.
 Conductor Material: Copper
 Conductor Resistance: 0.14Ω/meter
 Current Rating: 5A
 Insulator Diameter: (1.52mm) .060"
 Insulator Material: PE
 Dielectric Constant: 2.3dK
 Shield Material: Tin Copper
 Jacket Material: PVC
 Jacket Diameter: (2.70mm) .106"
 Jacket Temp Rating: -50°C to +90°C
 Jacket Color: Black
 RoHS Compliant: Yes

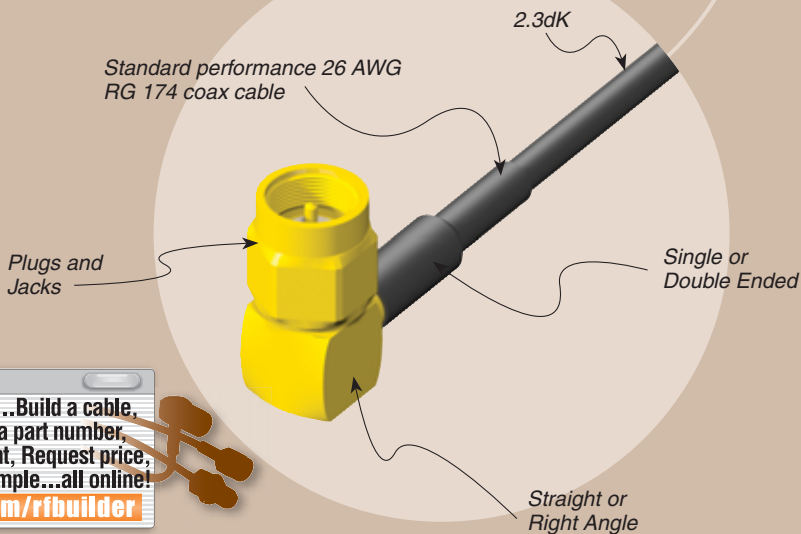
RG 316 Cable:

Impedance: 50Ω
 Capacitance: 96.432pF/meter
 Propagation Delay: 4.83 nsec/meter
 Max Attenuation (cable only): 1.25dB @ 1GHz for 1 meter
 Conductor Size: 26 AWG, (0.51mm) .020" dia.
 Conductor Material: Silver Plated Copper
 Conductor Resistance: 0.13Ω/meter max
 Current Rating: 5A
 Insulator Diameter: (1.52mm) .060"
 Insulator Material: PTFE
 Dielectric Constant: 2.1dK
 Shield Material: Silver Plated Copper Clad Steel
 Jacket Material: FEP
 Jacket Diameter: (2.54mm) .100"
 Jacket Temp Rating: -50°C to +250°C
 Jacket Color: Amber
 RoHS Compliant: Yes

RF Cable Builder

Quickly...Build a cable.
 Verify a part number.
 View print, Request price,
 Order sample...all online!

www.samtec.com/rfbuilder



CABLE TYPE	END 1 CONNECTOR	END 2 CONNECTOR
<p>RF174 = RG 174 Cable</p> <p>RF316 = RG 316 Cable</p>		

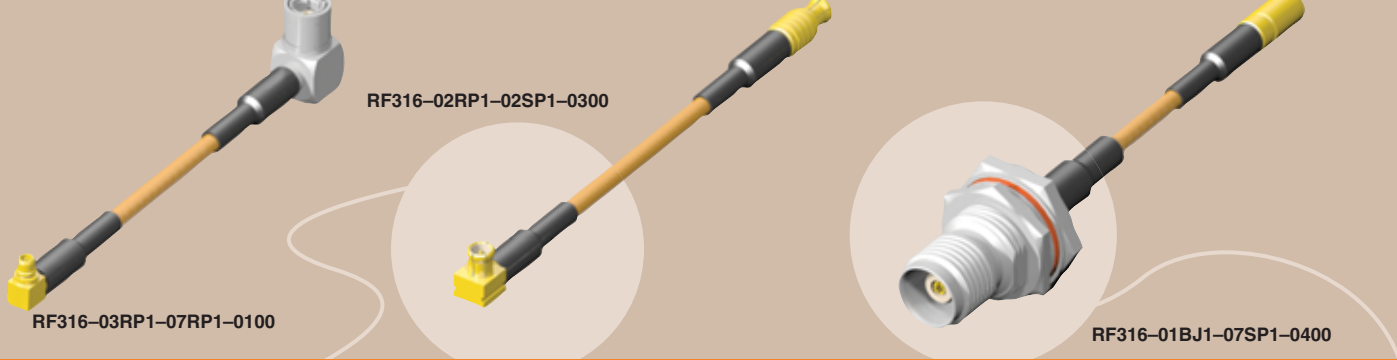
Specify END OPTIONS from chart

END OPTIONS	
-01SP1 = SMA, Straight Plug	
-01RP1 = SMA, Right Angle Plug	
-07SP1 = SMB, Straight Plug	
-07RP1 = SMB, Right Angle Plug	
-02SJ1 = MCX, Straight Jack	

END OPTIONS	
-02RP1 = MCX, Right Angle Plug	
-02SP1 = MCX, Straight Plug	
-03SP1 = MMCX, Straight Plug	
-03RP1 = MMCX, Right Angle Plug	
-04SP1 = BNC, Straight Plug	
-05SP1 = TNC, Straight Plug	
-SING = Single-Ended (End 2 only)	

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

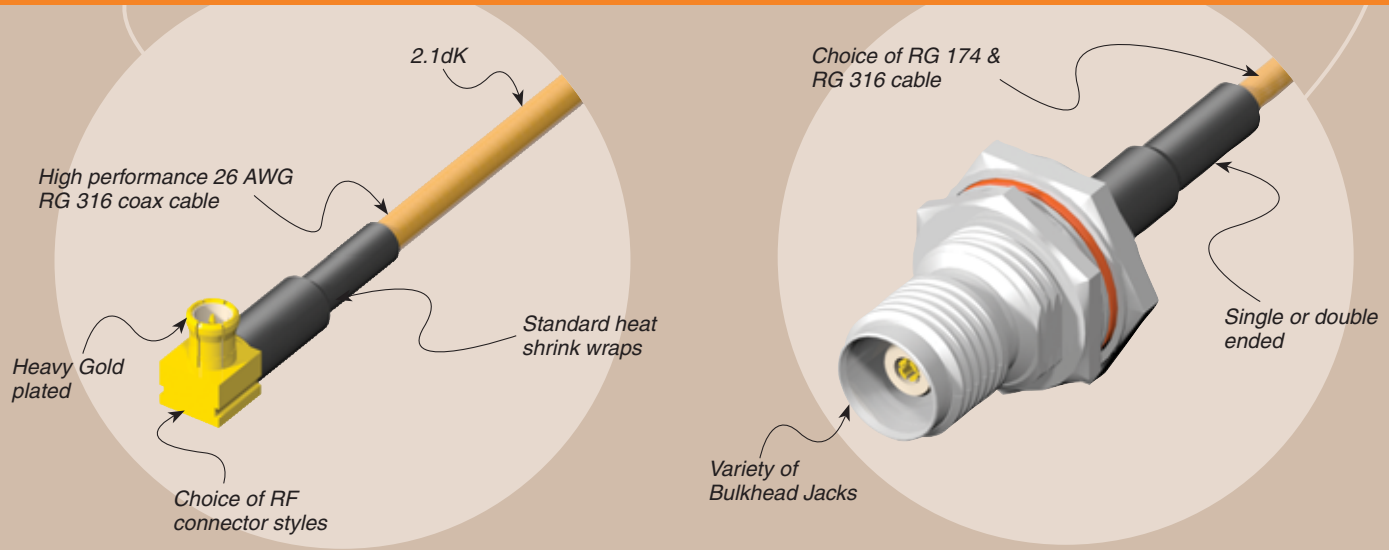
WWW.SAMTEC.COM



RF316-03RP1-07RP1-0100

RF316-02RP1-02SP1-0300

RF316-01BJ1-07SP1-0400



2.1dK

High performance 26 AWG
RG 316 coax cable

Heavy Gold
plated

Standard heat
shrink wraps

Choice of RF
connector styles

Choice of RG 174 &
RG 316 cable

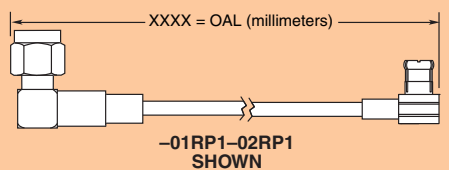
Single or double
ended

Variety of
Bulkhead Jacks

OVERALL LENGTH

—“XXXX”

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



-01RP1-02RP1
SHOWN

END OPTIONS	
-07BJ1 = SMB, Bulkhead Jack	
-01BJ1 = SMA, Bulkhead Jack	
-01BJ2 = SMA, Bulkhead Jack, Reversed Polarity	

END OPTIONS	
-04BJ1 = BNC, Bulkhead Jack	
-05BJ1 = TNC, Bulkhead Jack	
-06BJ1 = N Type, Bulkhead Jack	

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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 • Fax: 812-948-5047 SAMTEC SILICON VALLEY • Tel: 408-395-5900 • Fax: 408-395-1520 SAMTEC UK • Tel: 01236 739292 • Fax: 01236 727113
 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0 • Fax: +49 (0) 89 / 89460-299 SAMTEC FRANCE • Tel: 01 60 95 06 60 • Fax: 01 60 95 06 61 SAMTEC ITALY • Tel: 39 039 6890337 • Fax: 39 039 6890315
 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 • Fax: +46-87420413 SAMTEC ISRAEL • Tel: 972-3-7526600 • Fax: 972-3-7526690 SAMTEC INDIA • Tel: +91-80-3272 1612 • Fax: +91-80-4152 8187
 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 • Fax: 65 6841-1502 SAMTEC JAPAN • Tel: 045-475-1385 • Fax: 045-475-1340 SAMTEC CHINA • Tel: 86-21-61103766 • Fax: 86-21-5423 4575 SAMTEC TAIWAN • Tel: 886-2-2735-6109 • Fax: 886-2-2735-5036
 SAMTEC HONG KONG • Tel: 852-26904858 • Fax: 852-26904842 SAMTEC KOREA • Tel: 82-31-717-5685 • Fax: 82-31-717-5681 SAMTEC SOUTH AFRICA • Tel: 27 11 452 8112 • Fax: 27 86 6714432 SAMTEC ANZ • Tel: 613 9512 7747 • Fax: 613 9512 7745

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [RF Cable Assemblies](#) category:

Click to view products by [Samtec](#) manufacturer:

Other Similar products are found below :

[573/2](#) [73-6311-6](#) [73-6353-3](#) [73-6364-6](#) [MDB1-9SH001](#) [MDM-15PH003L-K139](#) [MDM-21PH003L-K139](#) [MH113-01SB1-MH1RP-0152](#)
[MIKQ6-7SH076](#) [R288940005](#) [RF174-01RP1-03RP1-0110](#) [RMTB1-6PHY0102](#) [145111-05-12.00](#) [1661-C-24](#) [2192](#) [CA-628485-A43](#)
[24P104C24J1-012](#) [24P104C24P1-006](#) [24P104C24P1-018](#) [24P203C24P2-006](#) [24P204C24J1-003](#) [172-2150-EX](#) [1800920920914PJ](#) [FCB-3030-](#)
[ALT](#) [21117-046](#) [21117-050](#) [PCX-24-50](#) [24P103C24P2-003](#) [25P203C25P2-003](#) [R284008001](#) [R285426000](#) [R288940003](#) [R288940008](#)
[RF174-03RP1-01BR1-0200](#) [RF179-74BJ3-77RP1-0305](#) [RMTB1-15PHY0102](#) [RMTB1-8PHY0102](#) [4814-BB-24](#) [500-181-R-ACC](#) [MIKQ6-](#)
[7SH023](#) [5260-72](#) [314-120](#) [JR4N1-CL1-6F](#) [JR4R3-CL1-4F](#) [JT2N1-CL1-1F](#) [JT2T1-CL1-6F](#) [4814-K-48](#) [RN-UFL-SMA6](#) [100E151JW3600X](#)
[CCNTN2-MM-LL335-26](#)