

RF316-07SP1-01SP1-0200

RF174-01RP1-02RP1-0300

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

Plugs and
Jacks

Standard performance 26 AWG
 RG 174 coax cable

2.3dK

Single or
Double Ended

Straight or
Right Angle

CABLE TYPE

END 1
CONNECTOR

END 2
CONNECTOR

RF174

= RG 174 Cable

RF316

= RG 316 Cable

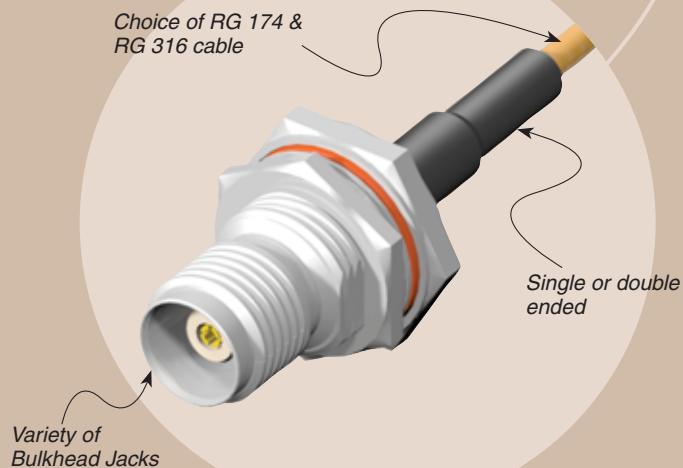
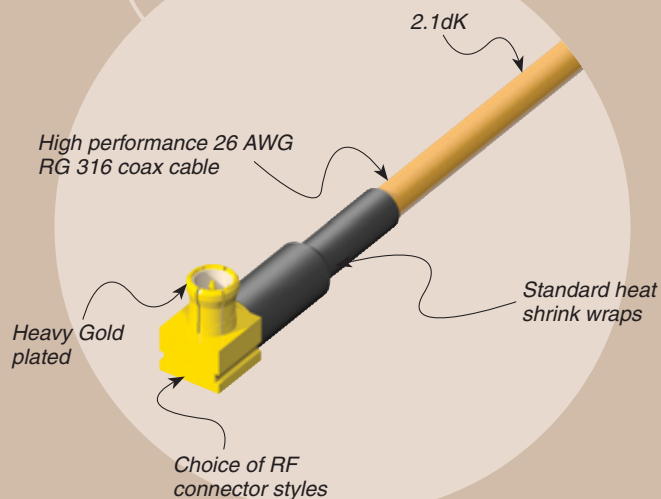
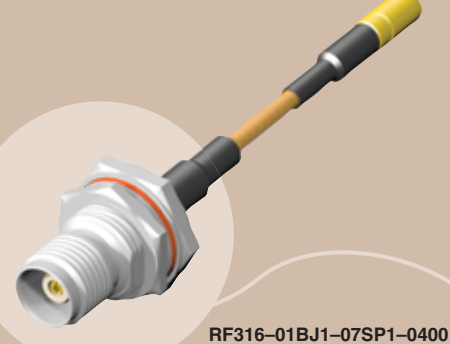
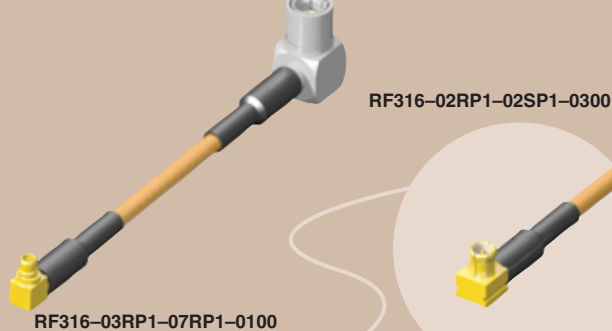
Specify
END OPTIONS
from chart

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.

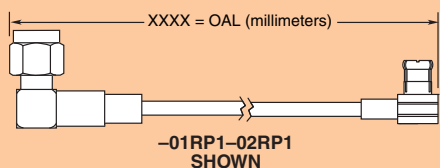
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OVERALL LENGTH

—“XXXX”—

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



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	

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