



RF174, RF316 SERIES

50Ω RG 174 & RG 316 CABLE ASSEMBLIES

SPECIFICATIONS

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

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) Au plated Phosphor Bronze (BNC-J) Àu plated BeCu (SMA-J) Insulator Material: PTFE
Operating Temperature:
RF174: -50°C to +90°C
RF316: -50°C to +165°C
Insulator Resistance:

5,000 MΩ Impedance: 50Ω Frequency Range: 0~6 GHZ

RoHS Compliant: Yes RG 174 Cable: Impedance: 50Ω

Capacitance: 101.024pF/meter Propagation Delay: 5.06 nsec/meter Max Attenuation: 1.4dB @ 1GHz for 1 meter Conductor Size: 26 AWG, (0,48mm) .019" dia. Conductor Material: Copper Conductor Resistance: Current Rating: 5A DC 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

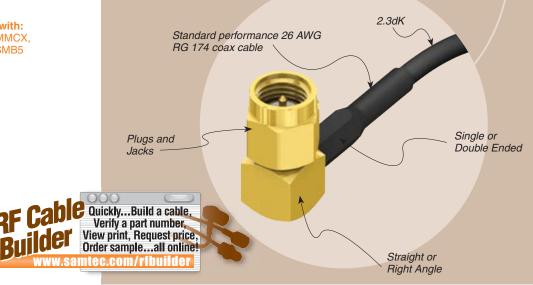
RG 316 Cable: Impedance: 50Ω Capacitance: 96.432pF/meter Propagation Delay: 4.83 nsec/meter
Max Attenuation: 1.25dB @ 1GHz for 1 meter Conductor Size: 26 AWG, (0,51mm) .020" dia. **Conductor Material:** Silver Plated Copper Conductor Resistance: 0.13Ω/meter max

Current Rating: 5A DC

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 +165°C Jacket Color: Amber RoHS Compliant: Yes

Mates with: MCX, MMCX SMA, SMB5



CABLE TYPE

CONNECTOR

END 2 CONNECTOR

RF174 = RG 174 Cable

RF316

Specify END OPTIONS from chart

= RG 316 Cab	ole		
END OPTIONS			
-01SP1 = SMA, Straight Plug (30µ" (0,76µm) Gold on Center Contact, Gold Flash on Shell)			
-01RP1 = SMA, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)			
-07SP1 = SMB, Straight Plug (30µ" (0,76µm) Gold on Center Contact, Gold Flash on Shell)			
-07RP1 = SMB, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)			
-02SJ1 = MCX, Straight Jack (30µ" (0,76µm) Gold on Contact, Gold Flash on Shell)			

END OPTIONS						
-02RP1 = MCX, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)						
-02SP1 = MCX, Straight Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)						
-03SP1 = MMCX, Straight Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)						
-03RP1 = MMCX, Right Angle Plug (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell)	□ □ □ □					
-04SP3 = BNC, Straight Plug (10µ" (0,25µm) Gold on Center Contact, Nickel on Shell)						
-05SP3 = TNC, Straight Plug (10µ" (0,25µm) 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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OVERALL LENGTH

-"XXXX"

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

STRIPPED & TINNED (Dimensions in mm)

CALLOUT	Α	В	С
-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 and Tinned.

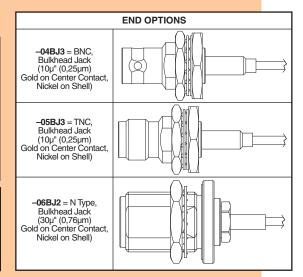
-01BR1 = SMA, Straight Bulkhead Jack, Reversed Polarity (30μ" (0,76μm) Gold on Center Contact, Gold Flash on Shell) **END OPTIONS** -SING = Single-Ended (End 2 only) XXXXXX = Stripped & Tinned (End 2 callout) Call Samtec for other sizes

-07BJ1 = SMB,

Bulkhead Jack (30µ" (0,76µm) Gold on Center Contact, Gold Flash on Shell)

-01BJ1 = SMA, Straight Bulkhead Jack

END OPTIONS



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