



# $50\Omega$ RG 316 CABLE ASSEMBLIES

#### **SPECIFICATIONS**

For complete specifications see 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 & SMA-J)
Au plated Phos. Bronze (BNC-J)
Insulator Material:

Operating Temperature: -50°C to +165°C

Insulator Resistance: 5 000 MO Impedance:

Frequency Range: 0~6 GHz

(Cable & connector dependent)
RoHS Compliant:

### RG 316 Cable:

Impedance:  $\Omega$ 05 Capacitance: 96.432 pF/meter Max Attenuation (cable only): 1.25dB @ 1 GHz for 1 meter Conductor Size: 26 AWG, (0.51 mm) .020" dia. Conductor Material: Silver Plated Copper Insulator Material:

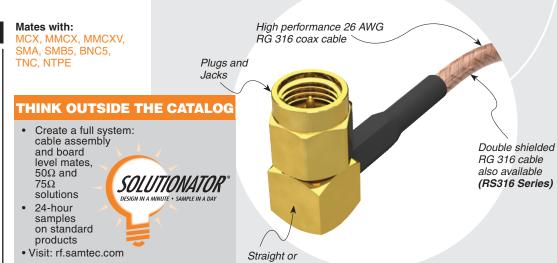
Shield Material: Silver Plated Copper Clad Steel Jacket Material: **FFP** 

Jacket Diameter: (2.54 mm) .100 Jacket Color: Amber Bend Radius:

12.7 mm **RoHS Compliant:** 

# SOLUTIONS

- Double shielded RG 316 cable available, see **BS316 Series**
- · Cable connector kits (see cable components catalog pages)



Right Angle

XXXX = OAL (millimeters)

END<sub>1</sub> CABLE TYPE CONNECTOR

CONNECTOR

**RF316** = RG 316 Cable, Single Braid Shield



**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)			

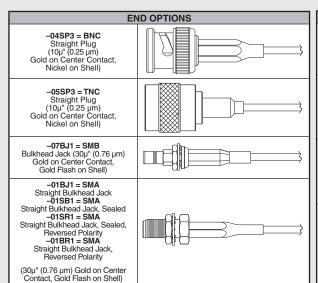
END OPTIONS				
-02RP1 = MCX Right Angle Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)				
-02SP1 = MCX Straight Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)				
-03SP1 = MMCX Straight Plug (30µ" (0.76 µm) Gold on Center Contact, Gold Flash on Shell)				
-03RP1 = 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)				



### **OVERALL LENGTH**

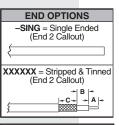
### -"XXXX"

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



-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 = NType Bulkhead Jack (30µ" (0.76 µm) Gold on Center Contact, Nickel on Shell)	

**END OPTIONS** 



## 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, only the center conductor is tinned.