

RF316-07SP1-01BJ1-0300



RF316-01RP1-02RP1-0200

# 50 Ω RG 316 CABLE ASSEMBLIES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?RF316](http://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:

PTFE

#### Operating Temperature:

-50 °C to +165 °C

#### Impedance:

50 Ω

#### Frequency Range:

0-6 GHz

(Cable & connector dependent)

#### RoHS Compliant:

Yes

### RG 316 Cable:

#### Impedance:

50 Ω

#### Capacitance:

96.432 pF/meter

#### Max Attenuation

(cable only):

1.25 dB @ 1 GHz for 1 meter

#### Conductor Size:

26 AWG, (0.51 mm) .020" dia.

#### Conductor Material:

Silver Plated Copper

#### Insulator Material:

PTFE

#### Shield Material:

Silver Plated Copper Clad Steel

#### Jacket Material:

FEP

#### Jacket Diameter:

(2.54 mm) .100"

#### Jacket Color:

Amber

#### Bend Radius:

12.7 mm

#### RoHS Compliant:

Yes

### Mates with:

MCX, MMCX, MMCXV,  
SMA, SMB5, BNC5, TNC



**Solutionator**  
DESIGN IN A MINUTE

- Create a full system: cable assembly and board level mates, 50 Ω and 75 Ω solutions
- Free samples available
- Visit: [rf.samtec.com](http://rf.samtec.com)

High performance 26 AWG  
RG 316 coax cable

Plugs and  
Jacks

Straight or  
Right-angle

Double shielded  
RG 316 cable  
also available  
(RS316 Series)

CABLE TYPE

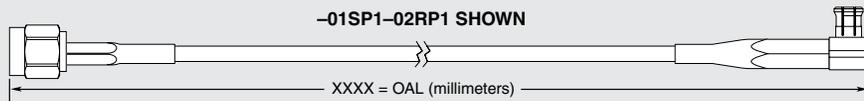
END 1  
CONNECTOR

END 2  
CONNECTOR

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

Specify END OPTIONS from chart

-01SP1-02RP1 SHOWN



END OPTIONS	
-01SP1 = SMA Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-01RP1 = SMA Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-07SP1 = SMB Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-07RP1 = SMB Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-02SJ1 = MCX Straight Jack (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	

END OPTIONS	
-02RP1 = MCX Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-02SP1 = MCX Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-03SP1 = MMCX Straight Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-03RP1 = MMCX Right-angle Plug (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-V3SP1 = MMCXV Straight Plug, High Vibration (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)	
-V3RP1 = MMCXV Right-angle Plug, High Vibration (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)	
-V3SJ1 = MMCXV Straight Jack, High Vibration (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)	

## OTHER SOLUTIONS

- Double shielded RG 316 cable available, see RS316 Series
- Cable connector kits (see cable components catalog pages)



RF316-03RP1-07RP1-0200

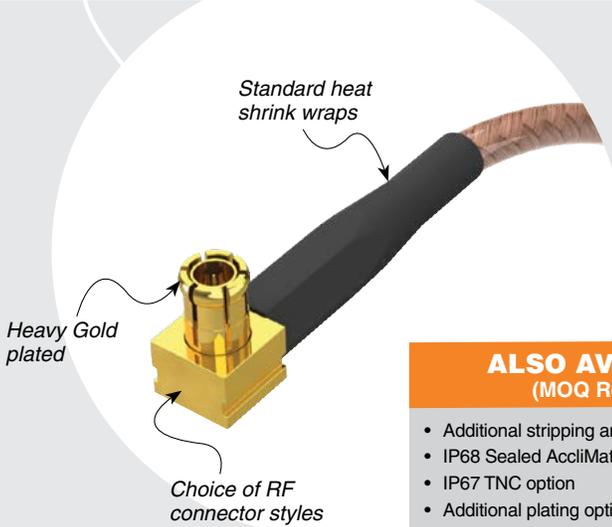


RF316-02RP1-02SP1-0200



RF316-04BJ2-07SP1-0100

**RF316 SERIES**



**ALSO AVAILABLE**  
(MOQ Required)

- Additional stripping and tinning options
- IP68 Sealed AccliMate™ end options
- IP67 TNC option
- Additional plating options
- Additional end connector combinations
- Knurled nuts with BNC option

**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		END OPTIONS		END OPTIONS																								
<p><b>-04SP3 = BNC</b> Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>		<p><b>-01PN1 = SMA</b> 4-Hole Panel Mount Jack (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)</p>		<p><b>-SING = Single Ended</b> (End 2 Callout)</p>																								
<p><b>-05SP3 = TNC</b> Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>		<p><b>-04BJ2 = BNC</b> Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)</p>		<p>XXXXXX = Stripped &amp; Tinned (End 2 Callout)</p>																								
<p><b>-07BJ1 = SMB</b> Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)</p>		<p><b>-05BJ3 = TNC</b> Bulkhead Jack (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)</p>		<p><b>STRIPPED &amp; TINNED</b> (Dimensions in mm)</p> <table border="1"> <thead> <tr> <th>CALLOUT</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>-303030</td> <td>3.0</td> <td>3.0</td> <td>3.0</td> </tr> <tr> <td>-303040</td> <td>3.0</td> <td>3.0</td> <td>4.0</td> </tr> <tr> <td>-403030</td> <td>4.0</td> <td>3.0</td> <td>3.0</td> </tr> <tr> <td>-403040</td> <td>4.0</td> <td>3.0</td> <td>4.0</td> </tr> <tr> <td>-404040</td> <td>4.0</td> <td>4.0</td> <td>4.0</td> </tr> </tbody> </table> <p>Both center conductor and braid shield are stripped, only the center conductor is tinned.</p>	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
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<p><b>-01BJ1 = SMA</b> Straight Bulkhead Jack <b>-01SB1 = SMA</b> Straight Bulkhead Jack, Sealed <b>-01SR1 = SMA</b> Straight Bulkhead Jack, Sealed, Reversed Polarity <b>-01BR1 = SMA</b> Straight Bulkhead Jack, Reversed Polarity (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)</p>		<p><b>-06BJ2 = N Type</b> Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)</p>																										

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.  
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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