

RF316-07SP1-01BJ1-0300

RF316-01RP1-02RP1-0200

50Ω 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:

PTFE

Operating Temperature:

-50°C to +165°C

Insulator Resistance:

5,000 MΩ

Impedance:

50Ω

Frequency Range:

0-6 GHz

(Cable & connector dependent)

RoHS Compliant:

Yes

RG 316 Cable:

Impedance:

50Ω

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:

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

OTHER SOLUTIONS

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

Mates with:

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

THINK OUTSIDE THE CATALOG

- Create a full system: cable assembly and board level mates, 50Ω and 75Ω solutions
- 24-hour samples on standard products
- Visit: rf.samtec.com



High performance 26 AWG
RG 316 coax cable

Plugs and
Jacks

Double shielded
RG 316 cable
also available
(RS316 Series)

Straight or
Right Angle

CABLE TYPE

END 1 CONNECTOR

END 2 CONNECTOR

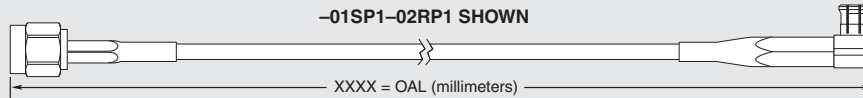
RF316

= RG 316 Cable,
Single Braid Shield

Specify END OPTIONS from chart

-01SP1-02RP1 SHOWN

XXXX = OAL (millimeters)



END OPTIONS

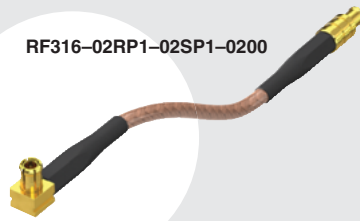
-01SP1 = SMA Straight Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-01RP1 = SMA Right Angle Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-07SP1 = SMB Straight Plug (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-07RP1 = SMB Right Angle Plug (30μ" (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)	



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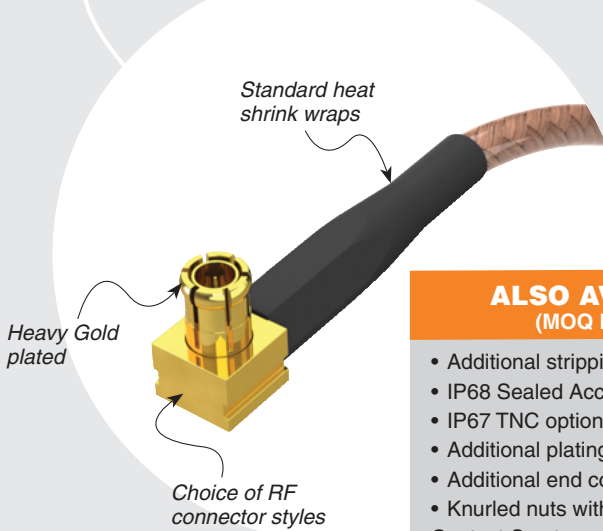


RF316-02RP1-02SP1-0200



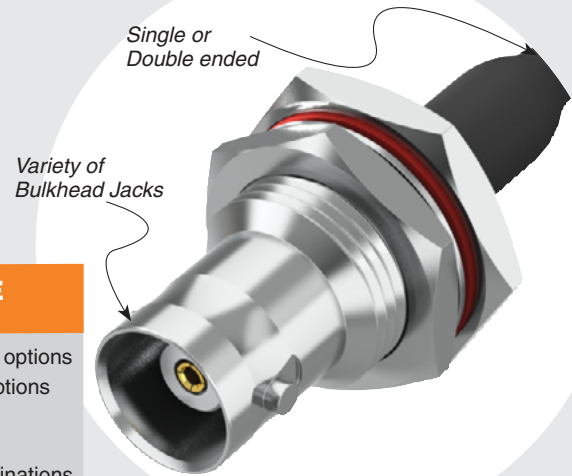
RF316-04BJ2-07SP1-0100

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 Contact Samtec.



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																								
-04SP3 = BNC Straight Plug (10μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		-01PN1 = SMA 4-Hole Panel Mount Jack (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)		-SING = Single Ended (End 2 Callout)																								
-05SP3 = TNC Straight Plug (10μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		-04BJ2 = BNC Bulkhead Jack (30μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)		XXXXXX = Stripped & Tinned (End 2 Callout)																								
-07BJ1 = SMB Bulkhead Jack (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)		-05BJ3 = TNC Bulkhead Jack (10μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)		STRIPPED & TINNED (Dimensions in mm) <table><tr><th>CALLOUT</th><th>A</th><th>B</th><th>C</th></tr><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></table> Both center conductor and braid shield are stripped, only the center conductor is tinned.	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
CALLOUT	A	B	C																									
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-01BJ1 = SMA Straight Bulkhead Jack -01SB1 = SMA Straight Bulkhead Jack, Sealed -01SR1 = SMA Straight Bulkhead Jack, Sealed, Reversed Polarity -01BR1 = SMA Straight Bulkhead Jack, Reversed Polarity (30μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)		-06BJ2 = NType Bulkhead Jack (30μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)																										