



RS316 SERIES

50 Ω DOUBLE SHIELDED RG 316 CABLE

SPECIFICATIONS

RF Connector:

Outer Contact Material:
Ni plated Brass (BNC),
Au plated Brass (SMA),
Au plated BeCu (MCX, MMCX)
Center Contact Material: Au plated Brass (SMA, MCX, MMCX),
Au plated Phosphor Bronze (BNC)

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 DS Cable:

Impedance:
50 Ω
Capacitance:
95.8 pF/meter
Max Attenuation (cable only):
1.4 dB @ 2 GHz for 1 meter
Conductor Size:
26 AWG, (0.51 mm) .020" dia.
Conductor Material:
Silver Plated Copper Clad Steel
Insulator Material: FEP
Shield 1 Material:
Silver Plated Copper
Shield 2 Material:
Silver Plated Copper
Jacket Material: FEP Jacket
Diameter:
(2.90 mm) .114"
Jacket Color: Amber
Bend Radius: 12.8 mm **RoHS Compliant:** Yes

Mates with:
SMA, MCX,
MMCX, TNC, BNC5



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



ALSO AVAILABLE (MOQ Required)

- Additional stripping and tinning options



OTHER SOLUTIONS

- Single shielded RG 316 cable available, see RF316 Series
- Cable connector kits (see cable components catalog pages)

END OPTIONS	
-01SP1 = SMA Straight 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)	
-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)	
05SP3 = TNC Straight Plug (10 μ" (0.25 μm) Gold on Center Contact, Nickel on Shell)	

END OPTIONS	
-01BJ1 = SMA Straight Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Gold Flash on Shell)	
-04BJ2 = BNC Bulkhead Jack (30 μ" (0.76 μm) Gold on Center Contact, Nickel on Shell)	
SING = Single Ended (End 2 Callout)	
XXXXXX = Stripped & Tinned (End 2 Callout)	

STRIPPED & TINNED (Dimensions in mm)			
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

Both center conductor and braid shield are stripped, only the center conductor is tinned.

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