

Strain Relief Boot  
protects the solder  
joint from bending stress



MIL-C-17 RG316  
Imported Cable



PCB to Panel Interconnect Cable Assembly  
with SMB (F) Rt. Angle - SMB (F) Rt. Angle

Our RG316 series Cable Sets are designed for RF PCB & Panel interconnect applications. These cables sets are constructed using imported MIL-C-17 RG316 cables.

## MATERIALS & TURNAROUND TIME

- Quick turnaround for SMB, SMC, MCX, MMCX & Nano-hex Cable Assemblies
- Imported RG316 (MIL) cables in stock
- Imported SMB, SMC, MMCX, MCX & Nano-hex straight connectors in stock

## MIL STANDARDS CONFORMANCE

- MIL-C-17
- MIL-PRF-39012

## APPLICATIONS (DC~4 GHz)

- RF PCB & Panel interconnect applications
- Tight spaced applications
- Application demanding miniature coaxials

## Ordering Codes Description

(Length) (Connector 1) (Connector 2)

RG316 - □ □ - □ ( □ / □ ) - □ ( □ / □ ) - □

**L L 1 2 3 1 2 3 U**

<b>L L</b>	Length	0.5 = 0.5 ; 1 = 1.0
<b>1</b>	Connector Designator	SMB = SMB; SSMB = SSMB; SMC = SMC; MMCX = MMCX; MCX = MCX
<b>2</b>	Male/Female Designator	M = Male ; F = Female
<b>3</b>	Orientation of Connector	ST = Straight ; RA = Right Angle
<b>U</b>	Unit of Length	I = Inch; M= Meter; F = Feet; CM = centimeter

2 meter RG316 cable assembly with SMB (F) on both sides = RG316-2.0-SMB(F/ST)-SMB(F/ST)-M

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## Specifications of RG316 RF Cable

Parameter	RG316
Cable Outer Diameter	2.95 mm
Center Conductor	SCCS
Dielectric	PTFE
Outer Shield	Silver-plated copper
Jacket	FEP
Min. Bending Radius	15 mm
Weight	0.015kg/meter
Temperature Range	-55°C to +150°C
Impedance	50 Ω
Capacitance	29.4 (pF/ft)
Operating Voltage	900Vrms
Shielding Effectiveness	>80dB

## RG316 Attenuation Vs Frequency

Frequency (MHz)	100	400	1000	3000
(dB/100 feet)	8.2	17	27.7	59.2
(dB/100m)	27	56	91	195

## Technical Data of RG316 PCB and Panel Cable Assemblies

Part Number	Conn 1	Conn 2	Length	Insertion Loss (dB) Typical			
				100 MHz	400 MHz	1 GHz	2.4 GHz
SMB(Female) Straight - SMB(Female) Straight (DC~4 GHz)							
RG316-1.0-SMB(F/ST)-SMA(F/ST)-M	SMB(F)	SMB(F)	1m	0.57	0.86	1.21	1.78
RG316-2.0-SMB(F/ST)-SMA(F/ST)-M	SMB(F)	SMB(F)	2m	0.84	1.42	2.12	3.26
RG316-3.0-SMB(F/ST)-SMA(F/ST)-M	SMB(F)	SMB(F)	3m	1.24	1.98	3.03	4.74
SMB(Female) Straight - SMB(Female) Right Angle (DC~4 GHz)							
RG316-1.0-SMB(F/ST)-SMA(F/RT)-M	SMB(F)	SMB(F) Rt.	1m	0.58	0.88	1.25	1.80
RG316-2.0-SMB(F/ST)-SMA(F/RT)-M	SMB(F)	SMB(F) Rt.	2m	0.89	1.48	2.18	3.29
RG316-3.0-SMB(F/ST)-SMA(F/RT)-M	SMB(F)	SMB(F) Rt.	3m	1.28	2.02	3.18	4.78

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