

RG142 Cable Construction

We offer Imported MIL-C-17 Conformant RG142 cable from reputed manufacturers in Korea. We offer a variety of connector options like SMA, N, THC, BNC, Quick Lock etc.

QUICK DELIVERY

- Stock of Imported MIL-C-17 Conformant RG142 cable from Reputed Korea Manufacturers
- MIL conformant SMA, N, BNC, TNC connectors in stock

APPLICABLE MIL-STANDARDS

- MIL-C-17 for cable
- MIL-PRF-39012 for connectors

PHYSICAL & MECHANICAL SPECS OF CABLE

Inner Conductor	Silver Covered Copper Clad Steel Diameter 0.94mm, (0.037 inch)
Dielectric	PTFE, Diameter 2.95mm (0.116 inch)
Shield (inner and outer)	Silver Covered Copper Diameter 4.2 mm (0.165 inch)
Jacket	FEP, Diameter 5.0 mm, (0.196 inch)
Temp. range	-40°C ~ +180°C

ELECTRICAL SPECIFICATIONS

Impedance	50Ω
Frequency	DC - 6 GHz
Capacitance	105 pF/meter 32pF/feet
Weight	0.075 Kg/m
















Attenuation & Power Handling Vs Frequency

Frequency (MHz)	100	400	1000	1500	2000	2500	3000	6000
Attenuation dB/100 feet	3.8	8.5	14.9	18.9	22.2	25.6	28.3	42.7
Power (Watts)	1250	650	380	320	270	230	210	150

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MIL-C-17 Conformant Connectors for RG142 Cable

Type		M/F	Orientation	Frequency	Inner Attach.	Outer Attach.	Ordering Code
SMA		M	Straight	DC - 8	Solder	Crimp	SMA3100-0142
SMA		F	Straight	DC - 8	Solder	Crimp	SMA8100-0142
SMA		M	Right Angle	DC - 8	Solder	Crimp	SMA3100-9142
N		M	Straight	DC - 6	Solder	Crimp	IJ01020A0113
N		F	Straight	DC - 6	Solder	Crimp	IJ01021H0097
N		M	Right Angle	DC - 6	Solder	Crimp	IJ01020A0036
N		F	Bulkhead	DC - 6	Solder	Crimp	IJ01021H0089
N		F	4-Hole Panel	DC - 6	Solder	Crimp	IJ01021A0153
BNC		M	Straight	DC - 4	Solder	Crimp	IJ01000A0008
BNC		F	Straight	DC - 4	Solder	Crimp	IJ01001A1287
TNC		M	Straight	DC - 4	Solder	Crimp	IJ01010A0000
TNC		M	Right Angle	DC - 4	Solder	Crimp	IJ01010A0006
TNC		F	Straight	DC - 4	Solder	Crimp	IJ01011A2287
SMB		F	Straight	DC - 3	Solder	Crimp	IJ01161A0391
SMB		F	Right Angle	DC - 3	Solder	Crimp	IJ01161A0271

Note 1) For crimp tool refer to the catalog page of crimp tools.

Note 2) Above is a list of popular types. Other varieties also available. Please contact us.

Note 3) For RG142 Series cables we recommend 'outer crimp' connectors. Solder types not recommended since soldering can deform the dielectric leading to impedance instability.

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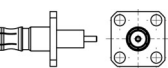
Connector Specifications

Specifications	SMA Connectors	N Connectors	TNC Connectors
Outer Conductor	Brass, Gold Plated	Brass, Nickel alloy plated	Brass, Nickel alloy plated
Center Conductor	Brass, Gold Plated	Brass, Gold Plated	Brass, Gold Plated
Insulation	PTFE	PTFE	PTFE
Gaskets	Silicon Rubber	Silicon Rubber	Silicon Rubber
Nominal Impedance	50 Ω	50 Ω	50 Ω
Frequency range	DC - 6 GHz	DC to 6 GHz	DC to 6 GHz
Mating/Unmating	500 operations	500 operations	500 operations
Vibration	As per MIL-STD-202, method 204, test condition D		
Mechanical Shock	As per MIL-STD-202, method 213, test condition I		
Thermal Shock	As per MIL-STD-202, method 107, test condition B		
Corrosion	As per MIL-STD-202, method 101, test condition B		
Humidity	As per MIL-STD-202, method 106		
Temp. Cycle	As per MIL-STD-202, method 102A, test condition C		

Connector Specifications

Specifications	BNC Connectors	SMB Connectors	
Outer Conductor	Brass, Nickel alloy plated	Brass, Gold Plated	
Center Conductor	Brass, Gold Plated	Beryllium Copper	
Insulation	PTFE	PTFE	
Gaskets	Rubber	Rubber	
Nominal Impedance	50 Ω	50 Ω	
Frequency range	DC - 4 GHz	DC to 6 GHz	
Mating/Unmating	500 operations	500 operations	
Vibration	As per MIL-STD-202, method 204, test condition D		
Mechanical Shock	As per MIL-STD-202, method 213, test condition I		
Thermal Shock	As per MIL-STD-202, method 107, test condition B		
Corrosion	As per MIL-STD-202, method 101, test condition B		
Humidity	As per MIL-STD-202, method 106		
Temp. Cycle	As per MIL-STD-202, method 102A, test condition C		

Mating SMA Jack Receptacles are also available from us

<p>4-Hole, Solder terminal</p> 	<p>2-hole Solder terminal</p> 	<p>4-hole Extended dielectric</p> 	<p>2-hole Extended dielectric</p> 	<p>Quick Lock Panel Mount Receptacle</p> 
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