

# SERIES SMA



The Shreyas Series SMA connectors are sub-miniature and semi-precision connectors designed to provide consistent performance from DC to 18 GHz. Because of their small size, these are extremely suitable for high-density packing applications where spaces as well as reliability are prime factors.

## Mechanical Ratings

Engagement Design	:	MIL-C-39012, Series SMA
Mating	:	1/4 "X 36 UNS-2B
Coupling Proof Torque	:	1.7 N-m Min.
Coupling Nut Retention	:	267 N Min

Cable Retention		Axial Force (N)	Torque (N-m)
Connectors for LMR- 200	:	136.0	NA
Connectors for RG316, RG188,	:	91.0	NA

Durability	:	500 cycles minimum
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<b>VSWR (f = GHz)</b>		<b>Straight Cabled Connectors</b>	<b>Right Angle Cabled Connectors</b>
RG-58, RG316, RG188, Cable	:	1.15 + 0.02f	1.15 + 0.03f
LMR 200 cable	:	1.10 + 0.03f	1.10 + 0.06f
RG 178 Cable	:	1.20 + 0.025f	1.20 + 0.03f
<b>Electrical</b>			
Impedance	:	50 Ohms	
<b>Frequency Range</b>			
Flexible cable connectors	:	0 - 18 GHz	
<b>Working Voltage (Vrms max.)</b>			
Connectors for Cable type	:	Sea Level	
LMR-200, RG 188, RG 316		250	
<b>Insulation Resistance</b>	:	5000 megohms minimum	
<b>Dielectric Withstanding Voltage</b>	:	(VRMS minimum at sea level)	
<b>Connectors for LMR-200, RG188:</b>		750	
<b>RF Leakage (dB minimum, tested at 2.5 GHz)</b>			
Flexible cable connectors,	:	-60 dB	
<b>Contact Resistance (milliohms max.)</b>			Initial After Environmental
Center contact (straight cabled connectors)	:	3.0	4.0
Center contact (right angle cabled connectors)	:	4.0	6.0
Outer Contact	:	2.0	NA

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## Environmental Ratings

Temperature Rating	:	-650C to +1650C
Thermal Shock	:	MIL-STD-202 Method 107, Condition B
Corrosion	:	MIL-STD-202 Method 101, Condition B
Shock	:	MIL-STD-202 Method 213, Condition I
Vibration	:	MIL-STD-202 Method 204, Condition D
Moisture Resistance	:	MIL-STD-202 Method 106

Materials Specification:		Material	Plating
Body	:	Stainless Steel	Nickel-plated
Brass	:	Gold plated	
Contacts: Male	:	Brass	Gold plated
Female	:	Phosphor Bronze	Gold plated
Insulators	:	PTFE	
Crimp Sleeves	:	Copper or brass	Nickel plated
Sealing Gaskets	:	Silicone Rubber	

\* All gold plated parts include a 1.25 µm min. nickel under plate barrier layer.

All specifications in this document are subject to change without further notice for incorporating improvements or design upgradation.