

FRM27 (Male) Non Magnetic Field Replaceable Connector Series Specifications

Mechanical

		MIL-PRF-39012 Reference	IEEE-287 (2.92mm) Reference
Mating Torque	9.0 in-lbf	N/A	2.1.9
Center Conductor Insertion Force	2.0 lbf	MIL-PRF-39012 / 60D	2.1.13.2
Center Conductor Withdrawal Force	1.5 ozf	MIL-PRF-39012 / 60D	2.1.13.2
Contact Durability	500 Cycles	3.15	2.1.14

Electrical

Maximum Frequency	27 GHz	N/A	2.2.7
Impedance	50Ω Nominal	MIL-PRF-39012 / 60D	2.1.3
Insulation Resistance	5,000 MΩ Minimum	3.11	N/A
Center Conductor Resistance	3.0 mΩ Maximum	3.16	2.2.3 / 2.2.2.8.5
Outer Conductor Resistance	2.0 mΩ Maximum	3.16	2.2.3 / 2.2.2.8.5

Environmental

Temperature	-55° C – +105° C	MIL-PRF-39012 / 60D	G.2.3
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Materials

Housing	Phosphor Bronze UNS 54400 per ASTM B139, Gold Plated per MIL-DTL-45204, Without Nickel Underplate		
Coupling Nut	Phosphor Bronze UNS 54400 per ASTM B139, Gold Plated per MIL-DTL-45204, Without Nickel Underplate		
Retaining Ring	BeCu Alloy UNS C17200 per ASTM B197-07		
Dielectric	Ultem 1000 Per ASTM D5205		
Dielectric	Virgin PTFE Fluorocarbon Per ASTM D1710, Type 1, Grade1, Class B		
Center Conductor	BeCu Alloy UNS C17300 Cond. TH04 per ASTM B196, Gold Plated per MIL-DTL-45204, Without Nickel Underplate		



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