

# ELF110 Edge Launch Connector Series Specifications

## Mechanical

		MIL-PRF-39012 Reference	IEEE-287 Reference
Mating Torque	4.0 in-lbf	N/A	2.1.9
Center Conductor Insertion Force	2.0 ozf	N/A	2.1.13.2
Center Conductor Withdrawal Force	0.5 ozf	N/A	2.1.13.2
Contact Durability	500 Cycles	3.15	2.1.14

## Electrical

Maximum Frequency	110 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	0° C – +55° C	MIL-PRF-39012 / 60D	2.3.2
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## Materials

Housing & Bottom Clamp	303 Stainless Steel, Steel Cres Alloy USN S30300 per ASTM A582, Passivated per AMS2700 Type 2		
Dielectric	Neoflon per ASTM D1430		
Center Conductor	BeCu UNS C17300 Condition TH04 per ASTM B196, Gold Plated per MIL-DTL-45204 Final Plating: Gold Plate per MIL-DTL-45204, Type II, Grade C, .000100" - .000150" Thick Under Plate: Electro Plated Nickel per QQ-N-290A, .000050" - .000150" Thick		



**SIGNAL  
MICROWAVE**

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