

# FRF40 Field Replaceable Connector Series Specifications

## Mechanical

		MIL-PRF-39012 Reference	IEEE-287 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	40 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
-------------	------------------	---------------------	-------

## Materials

Housing	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		



## Specifications, FRF40 Connector Series

APPROVAL	DATE	DWG NO	REV
BR	05/22/16	800-040-10114	A
FILE NAME: 800-040-10114 FRF40 Series Specification.dft			SHEET 1 OF 1