

# AM70F70-2001K and AF70F70-2001K Interconnect Series Specifications

## Mechanical

		MIL-PRF-39012 Reference	IEEE-287 Reference
Mating Torque	0.9 ± 0.1 Nm	N/A	2.1.9
Center Conductor Insertion Force	0.9 N Maximum	N/A	2.1.13.2
Center Conductor Withdrawal Force	0.14 N Minimum	N/A	2.1.13.2
Contact Durability	20,000 Cycles	3.15	2.1.14

## Electrical

Maximum Frequency	67 GHz*	N/A	2.2.7
Return Loss for Mated Pair	> 10 dB	N/A	N/A
Insertion Loss for Mated Pair	< 1.5 dB	N/A	N/A
Impedance	50 Ω 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

\*Typical Mode Free Through 70 GHz

## Environmental

Temperature	0° C – +55° C	MIL-PRF-39012 / 60D	1.2.3
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## Materials

Housing and Lock Nut	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		
Spring	Smalley Spring C037-M2		



**SIGNAL  
MICROWAVE**

## Specifications, 1.85 mm Blind Mating Interconnect

REV.	DESCRIPTION	ECR	APPR.	DATE
<b>REVISIONS</b>				

APPROVAL	DATE	DWG NO	REV
BR	09/07/23	800-070-10535	A
FILE NAME: 800-070-10535 1.85mm Push On Series Specification.dft			SHEET 1 OF 1