

High-Frequency Coax Contacts

Pin Part Number	Socket Part Number	Frequency	Interface	Cable Type	Cavity Size	Piggyback Grommet
TXPX08-014	TXSX08-014	40 GHz	BMZ	TFLEX-405	8	TXCG-07
TXPX08-015	TXSX08-015	18 GHz	BMZ	TFLEX-405	8	TXCG-07
TXPX08-016	TXSX08-016	12 GHz	BMZ	RG-400 RG-142	8	TXCG-09
TXPX08-017	TXSX08-017	18 GHz	BMZ	TFLEX-402	8	TXCG-10
TXPX08-018	TXSX08-018	26.5 GHz	BMA	TFLEX-405	8	TXCG-07
TXPX08-019	TXSX08-019	26.5 GHz	BMA	TFLEX-402	8	TXCG-10
TXPX08-020	TXSX08-020	2 GHz	BMZ-75 Ohm	LMR-240-75	8	TXCG-08
TXPX08-021	TXSX08-021	2 GHz	BMZ	RG179	8	TXCG-07
TXPX12-022	TXSX12-022	65 GHz	SMPM	TFLEX-405	12	-
TXPX16-023	TXSX16-023	65 GHz	SMPS	.047 Dia Cable	16	-



High-Frequency Coaxial Contacts

Milnec high-frequency coax contacts provide engineers with DC 40 GHz in standard type D38999 Series III #8, #12, and #16 contact sizes. The contacts allow the use of standard D38999 type connectors but expand their use to microwave transmission lines. Milnec high-frequency coax contacts offer superior electrical performance and can be terminated to a variety of cable types that suit many high-tech applications.

Electrical Specifications

Impedance:	50 Ω
Frequency Range:	DC 40 GHz
VSWR:	1.05 + .01 (freq. GHz)
Insertion Loss:	.03√ (freq. GHz)
Insulation Resistance (Min):	10,000 MΩ
Contact Resistance (Max)	
Center Conductor:	6.0 mΩ
Outer Conductor:	3.0 mΩ
Outer to Cable:	0.5 mΩ
Dielectric Withstanding Voltage:	1,000 VRMS
Corona Extinction Voltage:	250 VRMS
RF High Potential Voltage:	500 VRMS
RF Leakage:	- (80-freq. GHz)

Ratings for mated pair size #8, RG 405 semi-rigid cable.

Environmental

Temperature Range:	-85 to +257°F (-65 to +125°C)
Corrosion (Salt Spray):	MIL-STD-202, Method 101, Condition B
Vibration:	MIL-STD-202, Method 204, Condition D, 20 Gs
Shock:	MIL-STD-202, Method 213, Condition 1, 10 Gxs
Thermal Shock:	MIL-STD-202, Method 107, Condition B, -85 to +257°F (-65 to +125°C)
Moisture Resistance:	MIL-STD-202, Method 106, Less Step 7B
Barometric Pressure:	MIL-STD-202, Method 105, Condition C, 70,000 feet

Materials & Finish

Body & Sleeve:	Stainless steel per AMS-5640 Alloy UNS S30300 Type 1
Ferrule:	Brass per ASTM B16, Alloy UNS C36000
Contacts & Lock Ring:	Beryllium copper per ASTM B196 Alloy UNS C17300 Td04
Insulator:	PTFE per ASTM D1710, Type 1, Grade 1, Class B
Spring:	Stainless steel per ASTM A313 Type 631
Rear Body & Contacts:	Gold per ASTM B488 Type II, Code C, Class 1.27 over Nickel per AMS-QQ-N-290 Class 1 (60 μinches)