

**TABLE 1: MICRO-D STANDARD MATERIALS AND FINISHES**

Connector Shell, Metal	Aluminum Alloy 6061 In Accordance With SAE AMS-QQ-A-250/11 Plating Code 1: Cadmium W/ Yellow Chromate per SAE-AMS-QQ-P-416, Type II, Class 3 Plating Code 2: Electroless Nickel In Accordance With ASTM B733-90 SC2 Type 1 Class 5. Plating Code 4: Black Anodize In Accordance With MIL-A-8625 Type II Class 2 Plating Code 5: Gold Plated In Accordance With ASTM B48 Plating Code 6: Chem Film In Accordance With MIL-C-5541 Class 3 Stainless Steel, 300 Series Plating Code 3: Passivated In Accordance With SAE AMS 2700
Connector Shell, Plastic	Liquid Crystal Polymer, 30% Glass-Filled, In Accordance With MIL-M-24519
Insulator	Liquid Crystal Polymer, 30% Glass-Filled, In Accordance With MIL-M-24519
Interfacial Seal	Fluorosilicone Rubber In Accordance With A-A-59588
Terminal Block, PCB	Liquid Crystal Polymer, 30% Glass-Filled, In Accordance With MIL-M-24519
Pin Contact (TwistPin)	Beryllium Copper, Gold Plated In Accordance With ASTM B 488 Type II Class 1.27 (50 Microinches Minimum) Code C, Over Nickel Underplate In Accordance With SAE AMS-QQ-N-290, Class 2, (30-150 Microinches).
Socket Contact	Phos Bronze ASTM 139 Gold Plated In Accordance With ASTM B 488 Type II Class 1.27 (50 Microinches Minimum) Code C, Over Nickel Underplate In Accordance With SAE-AMS-QQ-N-290, Class 2, (30-150 Microinches).
Encapsulant (Potting)	Epoxy Resin, Hysol EE4215/HD3561
Hardware	Stainless Steel, Passivated In Accordance With SAE AMS 2700
Pigtail Wire, Insulated Hookup	Wire Type E: 7 Strand Silver-Coated Copper Wire, Extruded PTFE Insulation, 600 Volts RMS, 200°C., In Accordance with NEMA HP3 (Replaces MIL-W-16878/4) Wire Type K: 19 Strand Silver-Coated Copper Wire, Extruded PTFE Insulation, 600 Volts RMS, 200° C., In Accordance with SAE AS 22759/11 Wire Type J: 19 Strand High-Strength Silver-Coated Copper Alloy Wire, Crosslinked Modified ETFE Insulation, 600 Volts RMS, 200° C., In Accordance with SAE AS 22759/33
Pigtail Wire, Uninsulated	Wire Finish Code 3: Solid Copper Wire In Accordance With A-A-59551, Gold-Plated, Solder Dipped in 63/37 tin-lead Wire Finish Code 4: Solid Copper Wire In Accordance With A-A-59551, Gold-Plated

**TABLE 2: MICRO-D PERFORMANCE SPECIFICATIONS**

PROPERTY	SPECIFICATION	TEST METHOD
Contact Current Rating	3 Amps continuous from -55° to +150° C.	EIA-364-70
Dielectric Withstanding Voltage	600 VAC sea level, 150 VAC 70,000 feet	EIA-364-20
Insulation Resistance	5000 megohms minimum	EIA-364-21
Contact Resistance	8 milliohms maximum	EIA-364-06
Low Level Contact Resistance	32 milliohms maximum	EIA-364-23
Operating Temperature	-55° to +150° C.	
Salt Spray (Corrosion)	48 hours	EIA-364-26, test Condition B
Mechanical Shock	50 g.	EIA-364-27, Test Condition E
Vibration (Sine)	20 g.	EIA-364-28, Test Condition IV
Magnetic Permeability	2 Mu maximum	EIA-364-54
Durability	500 Cycles	
Outgassing	1.0% Total Mass Loss max., 0.1% Collected Volatile Condensable Materials	ASTM E595
Mating and Unmating Force	10 ounces per contact maximum	EIA-364-13
Crimp Tensile Strength, #26 AWG	5 pounds min. M22759/11, 10 pounds min. M22759/33	EIA-364-08
Humidity, Metal Shell with Interfacial Seal	100 megohms IR following ten 24 hour cycles	EIA-364-31, Method IV.
Fluid Immersion	20 hours synthetic lubricating oil, 1 hour coolanol	MIL-DTL-83513F, para. 4.5.18
Shielding Effectiveness, Metal Shell with Ground Spring	65 dB minimum	EIA-364-66