

General Specifications & Test Data

Test	Specification	Acceptance Criteria
Current Rating	MIL-DTL-83513	3 amps max.
Contact Resistance	MIL-DTL-83513 para 3.5.6 NEMA HP3 (26 AWG) M22759/11 (26 AWG) M22759/33 (26 AWG) A-A-59551 (25 AWG)	Voltage Drop (mV) @ 2.5 A 65 max 65 max 75 max 60 max
Contact Retention	EIA/ECA-364-29	5 lb. min axial load
Contact Engagement Force	MIL-DTL-83513 para 3.5.7	6.0 oz. max. (2.9 oz. avg.)
Contact Separation Force	MIL-DTL-83513 para 3.5.7	0.5 oz. min. (2.0 oz. avg.)
Dielectric Withstanding Voltage (DWV)	EIA-364-20 Method C	600 VAC (sea level) 150 VAC (70,000 ft. altitude)
Durability	MIL-DTL-83513 para 3.5.14	No mechanical or electrical defect after 2000 cycles
Thermal Shock (Temperature Cycling)	EIA-364-32 Condition I, 5 cycles, +125°C +3°C -0°C -55°C +0°C -3°C per MIL-DTL-83513 para 3.5.8	No detrimental damage or degradation of electrical performance
Physical Shock	EIA-364-27 Condition E per MIL-DTL-83513 para 3.5.13	No breakage or discontinuities greater than 1 microsecond
Vibration	EIA-364-28 Condition IV per MIL-DTL-83513 para 3.5.12	No breakage or discontinuities greater than 1 microsecond
Salt Spray	EIA/ECA-364-26 Condition B per MIL-DTL-83513 para 3.5.15	No resultant corrosion or conditions detrimental to the connector operation
Insulation Resistance (IR)	EIA/ECA-364-21	5000 megohms min. @ 500 VDC
Magnetic Permiability	ASTM A342/A342M	2μ max.
Humidity	EIA-364-31 Method IV (steps 7a and 7b omitted)	Meets DWV and IR requirements post test



Selective connectors are UL recognized. Consult factory for styles and sizes.

Standard Materials & Finishes

Contacts:

- Copper alloy gold plated per MIL-G-45204, Type II, Class 1, Grade C or equivalent

Insulators:

- Polyester: MIL-M-24519 Type GPT-30F
- Polyphenylene Sulfide (PPS): MIL-M-24519 Type GST-40F
- Nylon: ASTM D-4066

Shells:

- Aluminum Alloy per AMS-QQ-A-200/8 Type 6061-T6

Shell Plating:

- Cadmium: SAE-AMS-QQ-P-416
- Nickel: AMS 2404
- Gold: MIL-G-45204, Type II, Class 1, Grade C
- Anodize: MIL-A-8625
- Alodine: MIL-C-5541 Class 1A

Hardware:

- 300 Series Stainless Steel Passivated per SAE-AMS-2700

Wire:

- Uninsulated (solid): A-A-59551
- Insulated (stranded):
 - NEMA HP3 Type E, Type ET (formerly MIL-DTL-16878)
 - M22759/11
 - M22759/33

Interfacial Seal:

- Fluorosilicone per SAE-AMS-R-25988

Standard Epoxy (125°C):

- Hysol C9-4215/EE-3561 (black)

High Temperature Epoxy (200°C):

- Min-E-Con Proprietary Compound (gray)



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