Performance Specifications

Built to meet or exceed MIL-DTL-28876 specifications
Guaranteed fully compatible and interchangeable with physical and performance characteristics with all existing MIL-DTL-28876 military and commercial derivatives

Environmental Characteristics

Operating Temperature
-18 to +149°F (-28° to +65°C)

Storage Temperature
-40 to +158°F (-40 to +70°C)

Water Pressure
Equivalent depth of 32 feet for 48 hours at +50 to +95°F (+10° to +35°C)

Fluid Immersion
Turbine fuel, isopropyl alcohol, hydraulic fluid, lubricating oil, coolant, tap water, and seawater, 24-hour immersion duration, per TIA/EIA-455-12

Freezing Water
1 hour, per TIA/EIA-455-98, Test Method A, Procedure 1

Humidity
240 hours at 98% RH, per EIA/TIA-455-5, Method B

Ozone Exposure
150 ppm for 2 hours at +158°F (+70°C), per TIA/EIA-455-189

Sand & Dust
12 hours, per TIA/EIA-455-35

Fungus Resistance
28 days at +86°F (+30°C), 95% RH, per TIA/EIA-455-56

Flamability
0.75 inch flame for 10 seconds mated, 1.50 inch flame for 60 seconds unmated, per EIA/ECA-364-81

Endurance Characteristics

Coupling Cycles
500 coupling cycles (minimum), per TIA/EIA-455-21

Shock
Per MIL-S-901, Lightweight, Grade A, Class I (Hammer Shock)

Impact
8 drops from 8 feet, per TIA/EIA-455-2, Test Method B

Crush Resitance
281 lbs, 7 loading cycles, per TIA/EIA-455-26

Vibration - Sinusoidal
10 g peak, 5-500 Hz, 12 cycles (3 hours) per axis at ambient temperature, per TIA/EIA-455-11, Test Condition II

Vibration - Random
10.2 g RMS, 50-2000 Hz, 30 minutes per axis at ambient temperature, per TIA/EIA-455-11, Test Condition VII-C

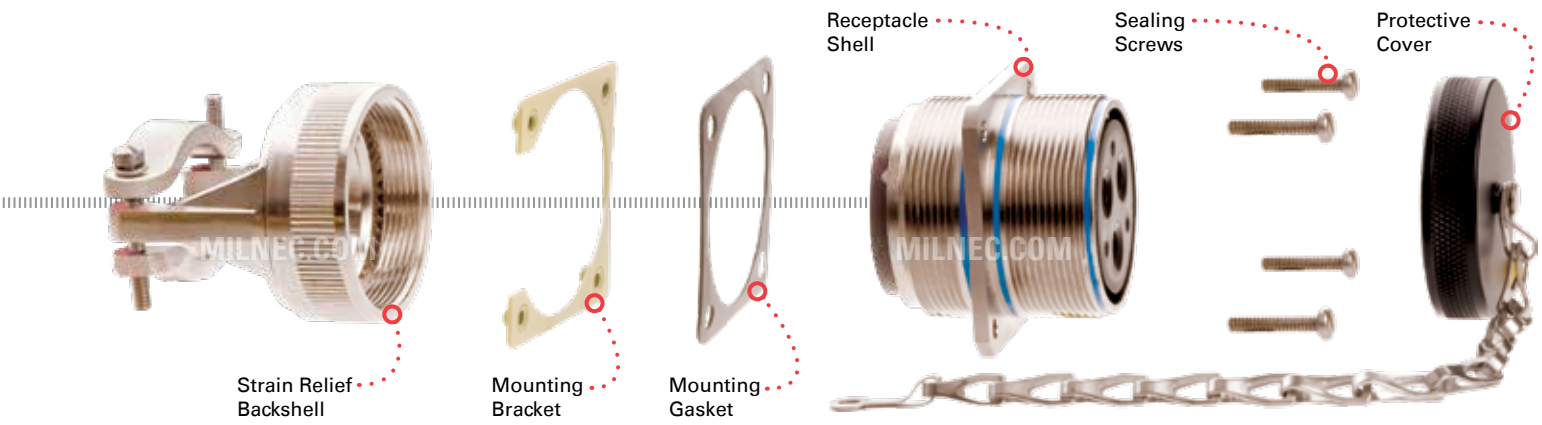
Cable Pull Out Force - Termini
22 lbs min for 1 minute, per TIA/EIA-455-6

Cable Pull Out Force - Connector
162 lbs min for 10 minutes, per TIA/EIA-455-6

External Bending Moment
300 inch-lbs min for 1 minute

Cable Seal Flexing
180° flex, 200 cycles, per TIA/EIA-455-1

Cable Twist
360°±180° twist, 50 cycles, 11 lbs min tension, per TIA/EIA-455-36



Connectors shown for illustrative purposes only, actual design may differ.

Material Characteristics

Shell
Aluminum alloy per ASTM B211

Shell Plating - W Finish
Electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance (500 hr salt spray rating)

Insulator
High-grade engineering plastic per ASTM D5948

Physical Characteristics

Coupling
Threaded

Polarization
Single master key and keyway on top position of shell

Insert Arrangements
6 standard contact inserts available

Key/Keyway Polarizations
Normal polarization (1), plus five alternate keyway polarizations (2, 3, 4, 5, 6)

Contact Characteristics

Contact Design
Removable, fiber optic termini

Contact Size
#16

Contact Material
Ferrule: zirconia ceramic
Terminus assembly: stainless steel/passivate
Retaining clip, spring washers: spring alloy
Seal: fluorosilicone
Crimp sleeve: brass alloy/nickel

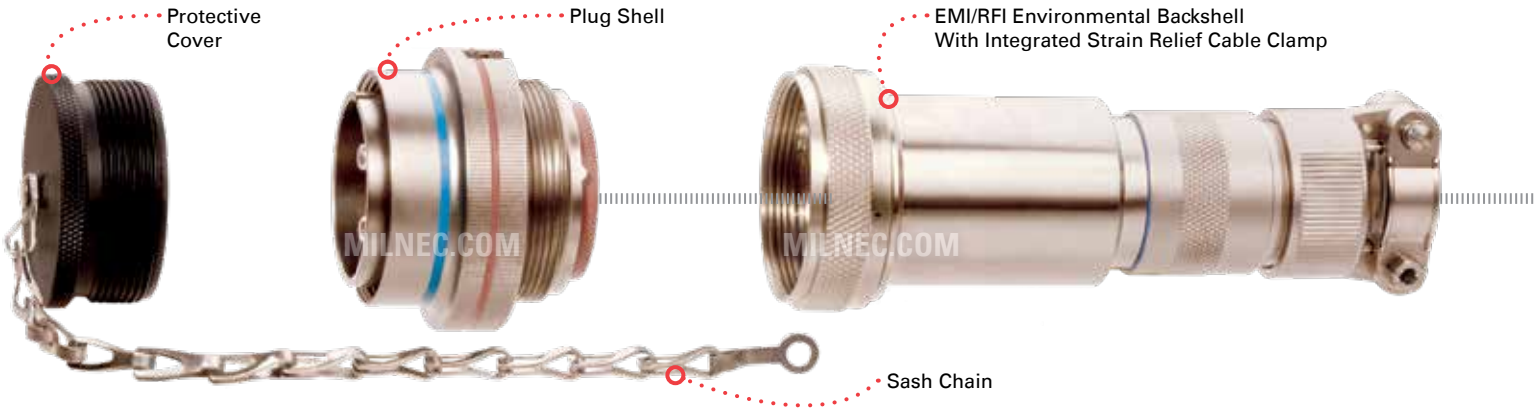
Max Number of Contacts
31 standard

Contact Performance

Optical Insertion Loss, Singlemode
-0.3 dB typical (9/125)

Optical Insertion Loss, Multimode
-0.3 dB typical (62.5/125)

Optical Back Reflection, Singlemode
Better than -40 dB - PC polish
Better than -50 dB - enhanced PC polish



Rev. 1825

Connectors shown for illustrative purposes only, actual design may differ.