



PERFORMANCE SPECIFICATIONS:

All performance characteristics in accordance with the requirements specified for the applicable class contained in Paragraph 3 of MIL-DTL-38999 for metal connectors. The following performance characteristics are derived directly from that specification, unless otherwise noted.

• Test Dielectric Withstanding Voltage

| Altitude | | Service Rating | | |
|-----------|--------|----------------|------|------|
| ft. | m | M | I | II |
| Sea Level | 0 | 1300 | 1800 | 2300 |
| 50,000 | 15,240 | 800 | 1000 | 1000 |
| 70,000 | 21,336 | 800 | 1000 | 1000 |
| 100,000 | 30,480 | 800 | 1000 | 1000 |

• Contact Information and Specifications

| Contact Size | Test Current | Contact Retention | | Available Wire Size for Contact |
|--------------|------------------|-------------------|-------|---------------------------------|
| | DC Test Amperage | Axial Load | | |
| | | lb | N | |
| 22D | 1.5 | 10 | 44.5 | 28 |
| 22D | 2.0 | 10 | 44.5 | 26 |
| 22D | 3.0 | 10 | 44.5 | 24 |
| 22D | 5.0 (3.0) | 10 | 44.5 | 22 |
| 20 | 3.0 | 15 | 66.7 | 24 |
| 20 | 5.0 | 15 | 66.7 | 22 |
| 20 | 7.5 (5.0) | 15 | 66.7 | 20 |
| 16 | 13.0 (10.0) | 25 | 111.2 | 20 |
| 16 | 13.0 (10.0) | 25 | 111.2 | 18 |
| 16 | 13.0 (10.0) | 25 | 111.2 | 16 |
| 12 | 23.0 (17.0) | 25 | 111.2 | 14 |
| 12 | 23.0 (17.0) | 25 | 111.2 | 12 |

(*.) = Hermetic Classes H, N, and Y

Note: Current ratings can vary greatly dependant on system requirements and thermal heat-rise.

• Test description & Parameters

- Durability

Minimum of 500 mating cycles. (Except for H & J Pins and Sockets that are a minimum of 1500 mating cycles.)

- Operating Temperature Range

-65°C to +200°C (-85°F to +392°F)

- Vibration

Mated connectors are vibrated harnessed to the following levels:

Sine Vibration: Up to 60 G's at rated temperature
 Random Vibration: 43.7 Grms at rated temperature
 49.5 Grms at ambient temperature

- EMI Shielding Effectiveness

Class F:

EMI leakage attenuation, greater than 90dB at 100 MHz, greater than 65dB at 10 Ghz. (Shell to shell conductivity, 1.0 milliohms max. resistance)

Class W:

EMI leakage attenuation, greater than 90dB at 100 MHz, greater than 50 dB at 10 GHz. (Shell to shell conductivity, 2.5 milliohms max. resistance)

- Corrosion Resistance

Classes C, K, W, and Y will withstand 500 hours salt spray.

- Fluid Immersion

Connectors are fluid resistant to many different fuels, solvents, coolants, and oils.

- Hermetic Leak Rate

Less than 1E-7 cm³/s

- High Impact Shock

Wired and mated connectors with environmentally sealed backshells will withstand high impact shock per Mil-S-901.

- Other Environments

Mated connectors will withstand sand and dust per method 110 of Mil-Std-202 and be ice resistant.

Note: For specific Hermetic or other test data, please consult HIRELCO in Claremont, CA.

MATERIAL SPECIFICATIONS:

All material in accordance with requirements specified for the applicable class in Paragraph 3.3.1 & 3.3.2 of MIL-DTL-38999 for metal connectors.

Finishes shall be in accordance with requirements specified for the applicable class in Paragraph 3.3.6.2 of MIL-DTL-38999.

For specifics, see different available connector Classes in "ORDERING INFORMATION" section.