

Description

Fiber optic cable connectors for harsh environment applications

Typical Applications

- Commercial broadcast cable
- Military tactical field usage
- Petroleum field exploration
- Field deployment
- Shipboard/pierside

Benefits/Features

Genderless connection Cable connectors will link

(concatenate) to identical connectors

without regard to connector gender

Channel count 2 or 4 fiber optic channels

Fiber type compatibility Both single and multimode

compatible in the same connector

Ruggedness Designed to withstand crush, impact,

cable pull-out, cable twist, bending moment, water and mud immersion, and many other harsh environments

Reliability Proven performance in harsh

environments

4 Channel Hermaphroditic Fiber Optic Cable Connectors



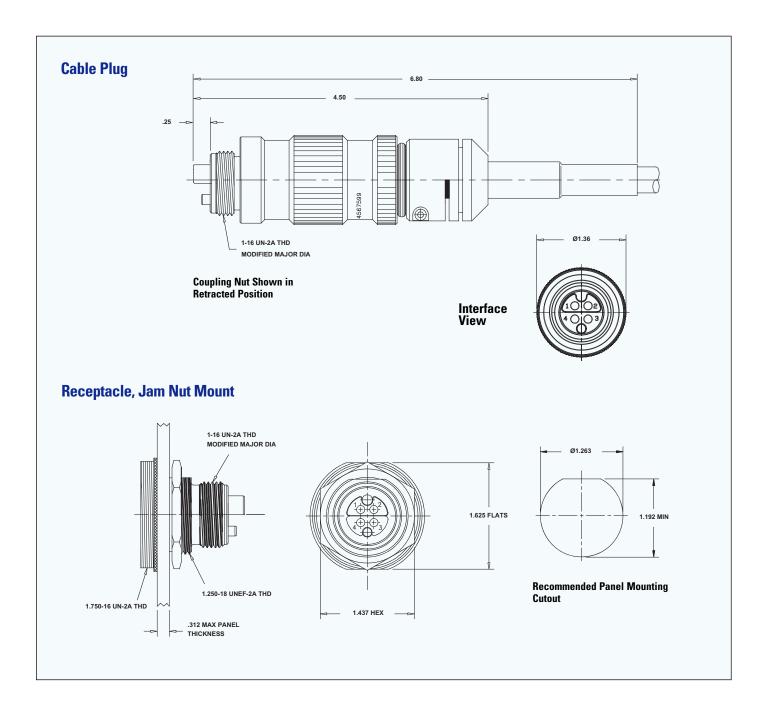
For more information, please contact us or visit our website at **www.delphi.com/connect**.

Connector Performance Criteria

| Optical Insertion Loss | 9/125 SM Fiber -0.25 dB avg., 62.5/125 MM Fiber -0.6 dB avg. Note - Values measured at 1300 nm per TIA/EIA-455-34 |
|------------------------------------|--|
| Optical Backreflection (sm) | Better than -40 dB with PC polish, better than -50 dB with enhanced PC polish |
| Mating Durability | 1000 cycles minimum per TIA/EIA-455-21 |
| Vibration | Per MIL-STD-1344, Method 2005, Condition II & VI-A |
| Mechanical Shock | Per TIA/EIA-455-2, Method C |
| Thermal Shock | -54°C to +85°C* per TIA/EIA-455-3, test condition A |
| Operating Temperature Range | -54°C to +85°C* |
| Storage Temperature | -65°C to +85°C* |
| Corrosion Resistance | 500 hours salt spray per TIA/EIA-455-16 |
| Ozone Exposure | ASTM-D-1149, 100-150 PPM for 2 hours |
| Temperature Humidity | Per TIA/EIA-455-5, type 2 |
| Crush Resistance | 225 pounds per TIA/EIA-455-26 |
| Maintenance Aging | 10 contact insertions/removals per MIL-STD-1344, Method 2002 |
| Terminus (Contact) Retention Force | 22 pounds minimum per MIL-STD-1344, Method 2007 |
| Cable Retention | 400 pounds minimum per TIA/EIA-455-6 (depending on cable construction) |
| Cable Seal Flexing | 100 cycles per MIL-STD-1344, Method 2017 |
| Cable Twist | 1000 cycles per TIA/EIA-455-36 |
| External Bending Moment | 45 ft-lb at mounting panel |
| Impact | Per TIA/EIA-455-2 |
| Water Pressure Sealing | Up to 25 PSI for 48 hours |
| Fluid Immersion | 24 hours per fluid, per TIA/EIA-455-12 |

^{*} Temperature ranges listed above are limited by the fiber optic cable performance window.

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