



### **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 . . . . . . . . 8 or 12 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 field performance in harsh

environment applications

# 12 Channel Hermaphroditic Fiber Optic Cable Connectors



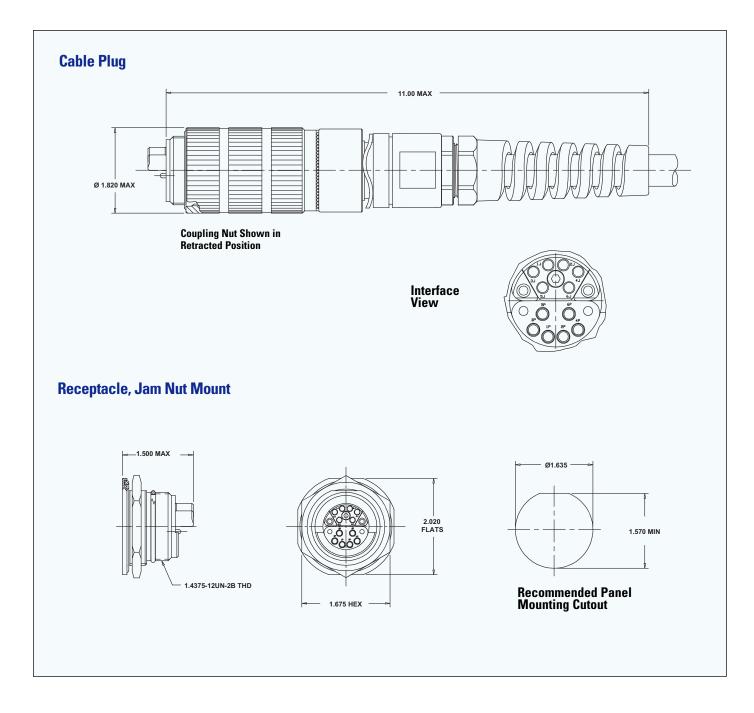
For more information, please contact us or visit our website at **www.delphi.com/connect**.

### **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
Temperature Cycling	-40°C to +65°C* per TIA/EIA-455-3
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	50 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

<sup>\*</sup> Temperature ranges listed above are limited by the fiber optic cable performance window.

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