

# EDMD—GbE

## Single Mode Fiber Optic Connectivity Solutions

Harsh  
Environment  
Solutions

**Advanced Fiber Products** EDMD fiber connectivity solution offers all the benefits of long transmission distance, high bandwidth and signal immunity without the hassles of keeping fiber optic connections clean or managing variable optical performances, return loss issues and the complexities of optical termination and maintenance.

The EDMD connector system incorporates a traditional wet-mate copper pin interface, providing a highly durable connectivity for high-speed digital transmission with data transfer rates of 1.25 Gb/s or higher. Within each sealed harsh environment connector shell, industrial grade electro-optics convert the electrical signals to the optical signals and vice versa for transmission up and down the fiber optic cables.

AFP EDMD active fiber cable assemblies are exceptionally compact, rugged, reliable and light-weight providing zero loss single mode fiber connectivity using familiar and trusted copper connectors at every connection interface.

**The convenience of  
Copper connectivity  
with the performance  
of Fiber Optics**



### Features

- Zero loss Harsh Environment single mode optical connectivity
- Infinite Return Loss isolation
- Low skill field termination and repair
- Wet-mate or dry-mate
- Proven water depth ratings of 10,000psi.
- Compact design and light weight
- Available for any standard transmission protocols

### Applications

- Oil and Gas communication, sensor and control systems
- Geoseismic exploration
- Tactical Military communications
- Broadcast Video
- Mining



**Patent Applications Pending**

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**Advanced  
Fiber  
Products**

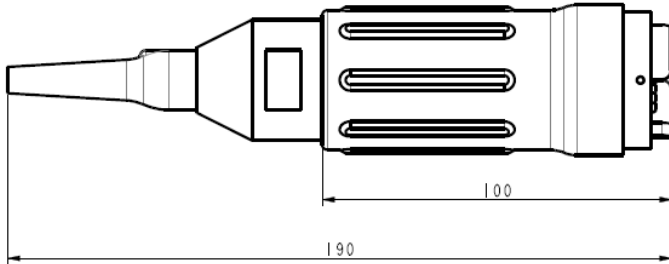
[www.afpgco.com](http://www.afpgco.com)

EDMD Series Product Sheet  
Rev 11106.03

# EDMD Specifications

## Plug Connector Configurations

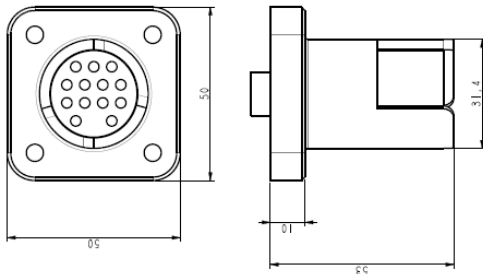
- Suitable for connecting 2 - 4 single mode (2 x TX/RX) fiber cables
- Electrical connector interface— up to 13 pins with 4 Ethernet TPs, 4 power conductors and 1 screen
- High speed data communications at 1 GbE for >10km fiber cable length or other customer specified protocols
- Connector power rating: 600V, max 4amp (for power conductors with hybrid cable )
- Full ocean depth rated and tested to more than 10,000psi.
- Terminated with standard pot & polish LC connectors within sealed connector shell
- Plug EDMD connectors carry male electrical pins
- Coupling mechanism—bayonet style



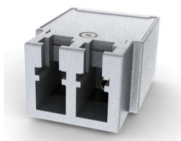
Typical electrical pin interface for plugs and bulkheads

## Bulkhead Connectors

- Up to 13 female electrical contact sockets
- Flange mount or D-Hole mounted with bayonet coupling
- Incorporates OE or EO media conversion in custom bulkhead shell
- Supplied with Cat5E cable tails or Cat5E socket if electrical cable feed
- Supplied with Duplex LC connection interface or duplex fiber pigtail if optical feed



AFP's world smallest miniaturized industrial grade transceivers used in EDMD products for 1GbE



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RoHS Directive Compliant .Conforms to GR-326. Flammability: UL 94 V-0 Grade