



M83526 COMPLIANT  
GFOCA



Fiber optic connection system



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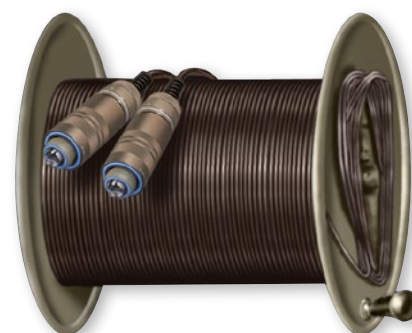
## Fiber optic connection system

GFOCA: the genderless, ruggedized, environmentally-sealed solution ideal for fiber optic battlefield communications—TFOCA-II® intermateable!

- 4 channel singlemode and multimode configurations
- Designed IAW MIL-PRF-29504/16 and MIL-DTL-83526/16 and /17 drafts
- Discrete components or complete cable-on-reel solutions available
- Rugged field deployable system
- Corrosion resistant and environmentally sealed
- Low insertion loss 2.5mm diameter genderless butt joint termini
- Designed for both low speed analog and high-speed digital data



Turnkey point-to-point and pigtail GFOCA cable assembly



Factory Terminated Fiber Optic Cable Spool

### GFOCA COMPONENTS AND CABLE-ON-REEL SOLUTIONS



GFOCA jam nut mount receptacle connector with lanyard-attached dust cover

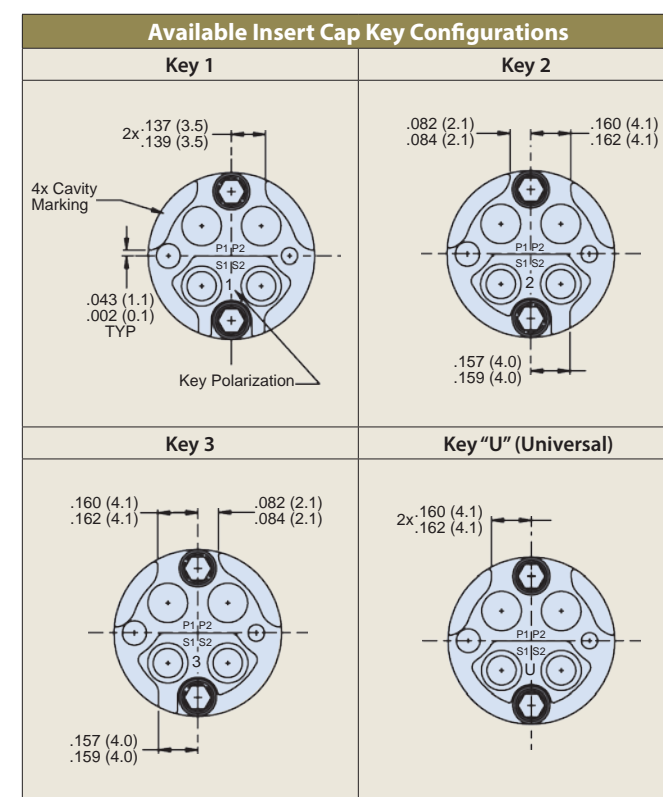
Hermaphroditic Cable Plug Connector

Genderless Butt-Joint Terminus

| GFOCA Performance Specifications |   |
|----------------------------------|---|
| Insertion Loss                   | <.50 dB Typical   |
| Cable Pull Resistance            | 400 pounds minimum, 1 hour; applies to plug and strain relief receptacles |
| Mating Durability                | 2000 Cycles   |
| Operating Temperature            | -46° C to +71° C  |
| Storage Temperature              | -55° C to +85° C  |
| Cable Diameter Accommodation     | .190" Minimum to .379" Maximum  |



Glenair GFOCA M83526 Compliant fiber optic connection system termination, inspection, test, and cleaning tools are available now from Glenair. We also offer comprehensive F/O training services for assembly and maintenance technicians.



| GFOCA Part Number Reference |  |
|-----------------------------|--|
| Drawing Number              | Product Description  |
| 181-050                     | Pin Terminus   |
| 180-050-S                   | Alignment Sleeve, Split, Ceramic                                     |
| 181-059                     | Dummy Terminus   |
| 180-145                     | Plug Connector, Hermaphroditic, 4 Channel                            |
| 180-146                     | Jam Nut Receptacle, 4 Channel  |
| 180-147                     | Square Flange Receptacle, 4 Channel                                  |
| 180-148                     | Jam Nut Receptacle, 4 Ch, Internal Mount                             |
| 180-149                     | Jam Nut Receptacle, 4 Channel, Internal Mount with Accessory Threads |
| 180-150                     | Jam Nut Receptacle, 4 Channel, Panel Mount with Accessory Threads    |
| 180-153                     | Jam Nut Receptacle, 4 Channel, Internal Mount with Strain Relief     |
| 180-137                     | Plug Connector, Hermaphroditic, 90°, 4 Channel                       |

| GFOCA Genderless Termini Part Numbers |               |                  |
|---------------------------------------|---------------|------------------|
| Dash Number                           | Ø A (Microns) | Fiber Type (Typ) |
| 181-050-1255C                         | 125.5         | SM               |
| 181-050-1260C                         | 126.0         | SM and MM        |

SM: Singlemode MM: Multimode  
Consult Factory for Additional Sizes

TFOCA-II® is a registered trademark of Amphenol Fiber Systems International

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