EYE-BEAM® GMA SERIES 185-002

HMA type ball lens expanded beam connectors and cables

Featuring the industry’s best performance—from insertion loss and return loss to mating durability

Ideally suited for use in harsh application environments such as geophysical exploration, military communications, industrial data transmission, and video broadcasts, Eye-Beam® GMA expanded beam connectors and cables are built in accordance with MIL-DTL-83526/20 and /21 and are fully intermateable with industry standard HMA type solutions. Sealed expanded beam interconnect technology resists water, mud, dust, oil and other chemicals contaminating the optical path and deteriorating system performance. The hermaphroditic design of the GMA interconnect eliminates the need for in-line adapters, and the environmentally resistant packaging reduces field maintenance and repair costs.

- Field-deployable system for both indoor and outdoor applications
- Beam expansion dramatically reduces loss due to contamination
- Large ball lens facilitates easy cleaning
- Fully intermateable with all MIL-DTL-83526 /20 and /21 compliant connectors
- 2 and 4-channel insert arrangements
- Singlemode and multimode versions, plus broad support for a wide range of standard and tactical military cables
SERIES 185-002 EYE-BEAM® GMA™

MIL-DTL-83526 /20 & /21 compliant hermaphroditic expanded beam connectors

SERIES 185-002 EYE-BEAM® GMA PERFORMANCE SPECIFICATIONS

**Plug**
- Front housing, shell, and coupling nut: Aluminum Alloy / hard anodize
- Insert body: Copper-nickel-zinc alloy
- Guide pin: Stainless steel / passivate
- Strain relief boot, facial seal, and grip sleeve: Fluorosilicone
- Dust cap: Thermoplastic
- Lanyard: Stainless steel / coated

**Receptacle**
- Front housing: Aluminum alloy / hard anodize
- Insert body: Copper-nickel-zinc alloy
- Guide pin: Stainless steel / passivate
- Shell, jam nut and back nut: Aluminum Alloy / Zinc-Nickel black
- Facial seal and panel seal: Fluorosilicone
- Dust cap: Thermoplastic
- Lanyard: Stainless steel / coated

**SERIES 185-002 EYE-BEAM® GMA MATERIALS/FINISHES**

- **Plug**
  - Front housing, shell, and coupling nut: Aluminum Alloy / hard anodize
  - Insert body: Copper-nickel-zinc alloy
  - Guide pin: Stainless steel / passivate
  - Strain relief boot, facial seal, and grip sleeve: Fluorosilicone
  - Dust cap: Thermoplastic
  - Lanyard: Stainless steel / coated

- **Receptacle**
  - Front housing: Aluminum alloy / hard anodize
  - Insert body: Copper-nickel-zinc alloy
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  - Shell, jam nut and back nut: Aluminum Alloy / Zinc-Nickel black
  - Facial seal and panel seal: Fluorosilicone
  - Dust cap: Thermoplastic
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