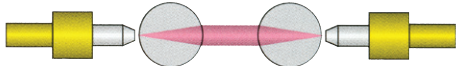


## Eye-Beam™ GMA

### MIL-DTL-83526 /20 & /21 Series 185-002 HMA type

#### EXPANDED BEAM TECHNOLOGY



Expanded Beam connectors utilize a sealed lens to expand the emitting beam of light from the fiber media. The expanded beam is then refocused back into the fiber of the mating half. These sealed assemblies are ideally suited for environmental applications where optical connectors are subjected to repeated mating/unmating cycles. Easy to clean, and insensitive to contamination.



Field-deployable GMA connector and cable technology may be deployed in a broad range of applications, from tactical communications to oil & gas industry exploration, satellite communications, and more. Multichannel fiber optic cable—including ruggedized simplex and mil-tactical solutions—are fully supported.

RUGGED FIELD / EXPANDED BEAM

#### 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
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 PERFORMANCE SPECIFICATIONS

Insertion Loss	Multimode: ≤1.5 dB typical at 850/1300nm Singlemode: ≤2.0 dB typical at 1310/1550nm
Return Loss	Singlemode: Better than 31 dB typical mated Better than 34 dB typical unmated
Operating Temperature	-55°C to +85°C
Storage Temperature	-57°C to +85°C
Mating Durability	3000 mating cycles minimum
Cable Retention	1500N (cable dependent)
Bump	4000 bumps at 40g acceleration
Impact	8 drops from 0.9m per TIA/EIA-455-2, Method C, Service Class: Severe
Drop (Free Fall)	500 falls onto concrete from 1.2m
Vibration - Sinusoidal	10g Peak per TIA/EIA-455-11, Test Condition III
Vibration - Random	9g RMS per TIA/EIA-455-11, Test Condition VI-C, for 1.5 hours
Physical Shock (Half-sine Pulse)	50g Peak, 5 shocks per axis (30 shocks total) per TIA-455-14, Test Condition A
Water Immersion	Depth of 15m for 24 hours per TIA-455-74

