



CINCH® Fiber Optic Connectivity Solutions

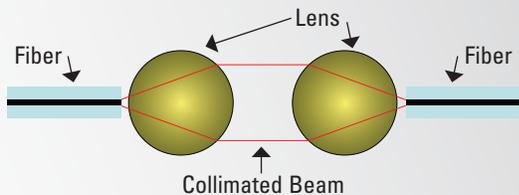


Patented Alignment Technology

The Cinch Advantage

Cinch EBOSA™ Expanded Beam Technology

Expands and collimates the optical beam up to **2000 times** (single-mode) the original beam size making airborne dirt nearly benign to beam continuity and integrity.



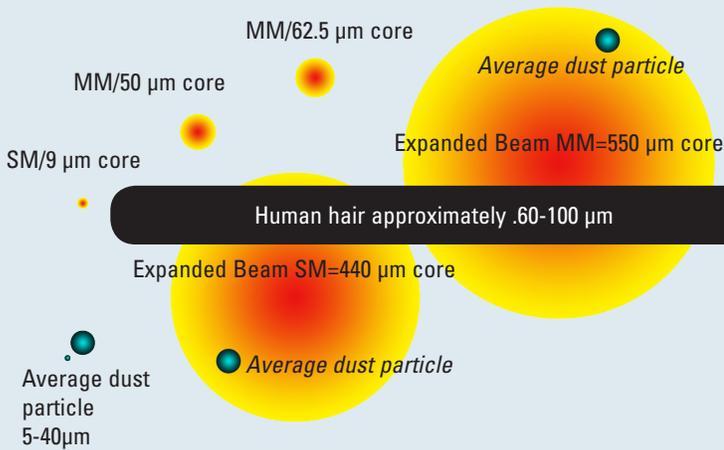
Our patented **active alignment technology** aligns a standard LC ferrule to Cinch's EBOSA™ with ultra-high precision. This results in insertion loss and reflectance performance that meets the MIL-DTL-83526/20 & /21 specification and can exceed the specification for customer specific applications for expanded beam connectors.

Why use Cinch's Expanded Beam Technology:

- Very short lead-times
- Easy to use
- Extremely durable
- Standard assembly tooling
- COTS ferrules & termination tooling
- Field repairable
- Reduced training, maintenance and total ownership cost



MIL-DTL-83526



Features



- Contact based technologies to suit various connector form factors
- Patented active alignment production process provides superior performance in harsh environments
- Full range of Fibreco expanded beam connectors
- Supports multimode or singlemode cable
- 1 to 16 optical channels
- Fiber optic / copper hybrid assemblies
- Custom lengths; high quality military tactical cable
- Wide range of deployable cable reels

Products

- Contact technology form factor: Mil-DTL-29504, ARINC 801- 2 mm
- Connector form factor: Mil-DTL-83526, 38999 series III, EN 4644, D-sub and Micro D for Mil-DTL-83513
- Multiple fiber modes including: Multimode MM (50/125 μm fiber and 62.5/125 μm fiber in 850 and 1300 nm wavelengths), singlemode (9/125 μm fiber in 1550 and 1310 nm wavelengths)
- Tactical cable assemblies, multi branch out harnesses and bulk-head to board tails
- Miniaturization





Fiber Optic Connectivity Solutions

Patented Alignment Technology

Mini	Junior	Senior
	 MIL83526 compliant	

Maxi	F900	F960	D38999	Break Away
				



Insertion Loss	Multimode: <-1.0dB*
	Singlemode: <-1.5dB*
Return Loss	Singlemode: > 32dB *
Durability	3000 Matings Min
Operating Temp	-55°C to +85°C
Storage Temp	-55°C to +85°C
Water Immersion	15 meters IP68
Free Fall Resistance	500 Falls (1.0m height)
Crush Resistance	3000N
Corrosion Resistance	500 Hours Salt Spray
*Typical figures when measured to reference cable	