



Cinch Connectivity Solutions

Fiber Optic Connectors & Active Products

Connectors & Cable Assemblies for Harsh Environments

The Cinch Advantage

Cinch design and manufacture fiber optic connectors and cable assemblies for military, security, outside broadcast, offshore, mining and other industrial harsh environment applications.

Our expanded beam connectors and cable assemblies offer high performance, flexible, cost effective solutions to any critical harsh environment communication application. Our connector product offering includes, military qualified hermaphroditic connectors, expanded beam & physical contact termini, rectangular and circular connectors, hybrid connectors with fiber and copper, harnesses, reels and the ability to terminate other manufacturers products. We also manufacture ruggedised optical transceivers, media converters, passive and active harsh environment solutions and optical flex circuits, all of which are qualified for civil and military aerospace applications..

Available with Cinch EBOSA™ Expanded Beam Technology

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

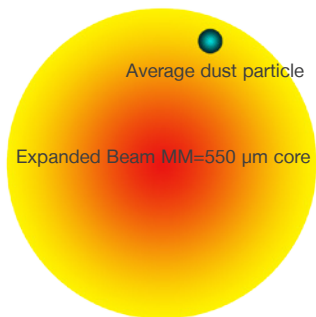
Our patented **active alignment technology** aligns a standard LC ferrule to Cinch's EBOSA™ with ultra-high precision. This results in insertion loss and reflectance performance that can exceed the specification for customer specific applications for expanded beam connectors.

Features

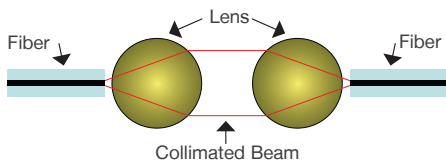
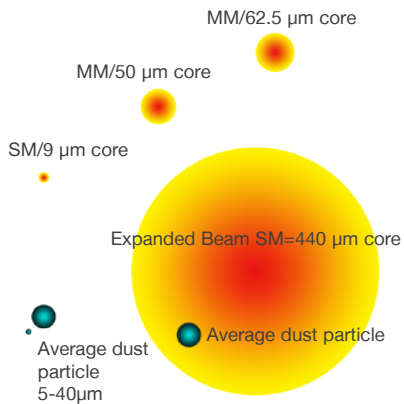
- Contact based technologies to suit various connector form factors
- Patented active alignment production process provides superior performance in harsh environments
- Full range of Fibreco expanded beam connectors
- Supports multimode or singlemode cable
- 1 to 24 optical channels
- Fiber optic / copper 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 bulkhead to board tails
- Miniaturization



Human hair approximately .60-100 μm



299 Johnson Drive SW
Suite 100
Waseca, MN 56093 USA

US +1 507.833.8822
ccsorders@us.cinch.com
EMEA +44 (0) 1245 342060
CinchConnectivity@eu.cinch.com
cinch.com

CCS Fiber Optic Connectors & Active Products



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	



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