$\boldsymbol{FALCON^{\text{TM}}}$ expanded beam connector

Productsheet FALCON Expanded Beam Connector

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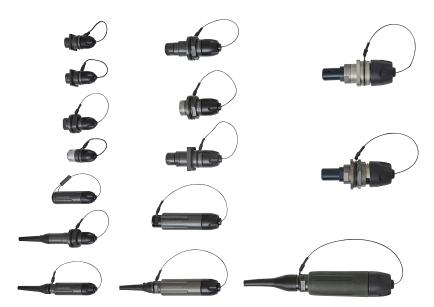
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FEATURES

- Built according to
 MIL-M83526/20&21
- Advanced expanded beam technology
- Hermaphroditic
 interconnection
- 1 to 16 fiber channels singlemode or multimode
- Rugged connector design keyed boot for 'blind mating'
- No adaptors needed
- Low downtime field repair
- Easy clean, no special tools

The FALCON connector has the best optical performance on the market, this can be achieved with Micropol lenstechnology and state of the art production and alignment process. FALCON expanded beam are the only 12-channel junior connector in the world with standard size collimated light beam.

The FALCON Expanded beam connector is the smallest connector available on the market with its range from 1 fiber up to 16 fibers (SM or MM fiber). All FALCON systems are all backward compatible with the existing expanded beam connectors available today.



COMPATIBLE CHART

Brand	FALCON [™] MINI	FALCON™ JR	FALCON™ SR
FIBRECO JUNIOR		Х	
FIBRECO MINI 2	Х		
QPC Q-MICRO	Х		
QPC Q-MINI		Х	
TE PRO-BEAM	Х	Х	Х
TELECAST MX - MINI	Х		
Amphenol TacBeam		Х	
Stratos S900			Х
Fibreco F900			Х
Stratos HMA		Х	



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Standard configurations

Standard configurat		
FALCON [™] MINI	1 to 4 channels	
FALCON [™] JUNIOR	1 to 12 channels	
FALCON [™] SENIOR	1 to 16 channels	
Optical		
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Туре	Single mode (SM), multimode (MM) or hybrid	
Insertion Loss (SM)	Typical Insertion Loss -0,8dB (1310 nm)	
	Maximimum Insertion Loss -1,2dB (1310 nm)	
Insertion Loss (MM)	Typical Insertion Loss -0,8dB (1300 nm)	
	Maximum Insertion Loss -1,0dB (1300 nm)	
Return loss	>35dB at 1310nm or 1550nm	
Return 1055	Polarization Dependent Loss less than 0,35dB	
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Mechanical		
Coupling type	Hermaphroditic	
Compliant	ROHS & REACH	
Material	Hard anodized aluminum	
Alternative material	Marine bronze & stainless steel	
Colour	Gray	
Durability	3000 mating cycles	
Free fall	500 falls from 1,2 meters height	
Vibration	5-500Hz, 0,75mm amplitude at 10G	
Shaking	390 m/S numbers of shakes 3x4000 11ms, half sine at 35g	
Shock pulse length	Numbers of axis: 3 (x, y, z)	
Recommended wall thickness	2-3 mm	
Enviromental		
Operating Temperature	-57°C to +85°C, +100°C optional	

Operating Temperature-57°C to +85°C, +100°C optionWater ImmersionIP67Air pressure<25kPa -55°C during 4h</td>Corrosion resistance500h salt sprayFlammabilityD0D-STD-1678, method 5010

