

# FALCON™ EXPANDED BEAM CONNECTOR

Productsheet  
Falcon Expanded Beam  
Connector

V1.0, 2019-08-31

Micropol Fiberoptic AB  
Älvdalsvägen 4  
313 50 Åled

Phone: +46 (0)35 17 85 39  
Mail: info@micropol.com

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.

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.



## 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

## COMPATIBILITY CHART

	FALCON™ MINI	FALCON™ JUNIOR	FALCON™ SENIOR
FIBRECO JUNIOR		X	
FIBRECO MINI 2	X		
QPC Q-MICRO		X	
QPC Q-MINI	X	X	
TE PRO-BEAM	X	X	X
TELECAST MX - MINI	X		
Amphenol TacBeam		X	
Stratos S900			X
Fibreco F900			X

## FOR MORE INFORMATION

Check [www.micropol.com](http://www.micropol.com) or call us on +46 (0)35 260 72 18.



# FALCON™ EXPANDED BEAM CONNECTOR

## Standard configurations

FALCON™ MINI	1 to 4 channels
FALCON™ JUNIOR	1 to 12 channels
FALCON™ SENIOR	1 to 16 channels

## Optical

Type	Single mode (SM), multimode (MM) or hybrid
Insertion Loss (SM)	Typical Insertion Loss <0,8dB (1310 nm) Maximum 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 PDL less than 0,35dB (Polarization Dependent Loss)

## Mechanical

Coupling type	Hermaphroditic
Compliant	ROHS
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 10grams
Shaking	390 m/S numbers of shakes 3x4000
Shock pulse length	11ms, half sine at 35g Numbers of axis: 3 (x, y, z)

## Enviromental

Operating Temperature	-55°C to +85°C, +100°C optional
Water Immersion	10 m water depth-mated
Air pressure	<25kPa -55°C during 4h
Corrosion resistance	500h salt spray
Flammability	DOD-STD-1678, method 5010

## FOR MORE INFORMATION

Check [www.micropol.com](http://www.micropol.com) or call us on +46 (0)35 260 72 18.

