

FALCON™

MINI PLUG SUPER LOW PROFILE



The FALCON connectors offer the best attenuation values and smallest 12-channel connector foot print on the market. With an insertion loss of <1,2 dB it outperforms NATO (<2,5 dB).

This is achieved with Micropol's lens technology, state of the art production and alignment process.

The FALCON Mini (SLP) Super-Low-Profile Plug is the smallest expanded beam connector available on the market today. It can be configured with single-mode or multi-mode from 1 channel to 4 channels.

The Super-Low Profile allows it to be used even in the most cramped environments and installations.

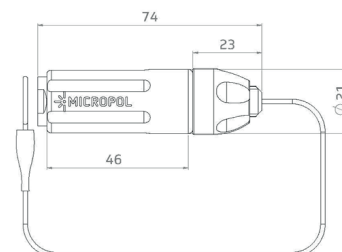
Like the other connectors in the FALCON family, it is compatible with other Mini-size expanded beam connectors on the market.

FEATURES

- Insertion loss <1,5 dB
- Only expanded beam approved for 40G transmission per channel (optional)
- Only 12-channel junior connector in the world with collimated light beam according to MIL-DTL-83526/20&21
- Temperature range 57°C – +85°C
- Hermaphroditic interconnection
- Rugged connector design
- Keyed boot for blind mating
- No adaptors needed
- Easy clean, no special tools

COMPATIBLE WITH

- FIBRECO - MINI 2
- QPC Q - MICRO
- TE PRO-BEAM - MINI
- TELECAST MX - MINI



STANDARD CONFIGURATIONS

FALCON™ Mini	1 to 4 channels
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OPTICAL

Type	Single mode (SM), multimode (MM) or hybrid
Transmission	10Gbit/s (40Gbit/s optional)
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 (PDL)	>35dB at 1310nm or 1550nm Polarization dependent loss less than 0,35dB

MECHANICAL

Coupling type	Hermaphroditic
Compliant	ROHS & REACH
Material	Hard anodized aluminum (MIL-A-8625 TYPE III CLASS 2)
Alternative material	Marine bronze, stainless steel or titanium
Colour	Grey
Durability	3000 mating cycles (MIL-DTL-83526)
Free fall	500 falls from 1,2 meters height (IEC 68-2-32-P II)
Vibration	5-500Hz, 0,75mm amplitude at 10G
Shaking	390 m/S numbers of shakes 3x4000
Shock pulse length	11ms, half sine at 35g Numbers of axis: 3 (x, y, z)
Recommended wall thickness	2-3 mm - not valid for cable plug JR and Mini

ENVIRONMENTAL

Operating temperature	-57°C to +85°C, +100°C optional
Water immersion	IP67
Air pressure	<25kPa -55°C during 4h
Corrosion resistance	500h salt spray
Flammability	DOD-STD-1678, method 5010

V5.2, 2025-10-09



MORE INFORMATION