

FALCON™ MINI PLUG LP

MINI-SIZE EXPANDED BEAM PLUG



The FALCON Mini Plug LP (Low Profile) is a mini-size expanded beam plug, available in configurations with 1–4 channels and designed for heavy-duty tactical applications.

This plug mates directly with tactical fiber-optic cables fitted with other mini-size expanded beam bulkhead receptacles. It is equipped with high-performance strain relief, providing the robustness required for demanding field deployments.

Because the Mini Plug LP does not include a protective boot, it is shorter than the FALCON Mini Plug and is therefore highly suitable for confined spaces. Unlike the Mini Plug, the LP is not deployed on cable reels but is instead used for fixed installations, for example in cross-connect cabinets.

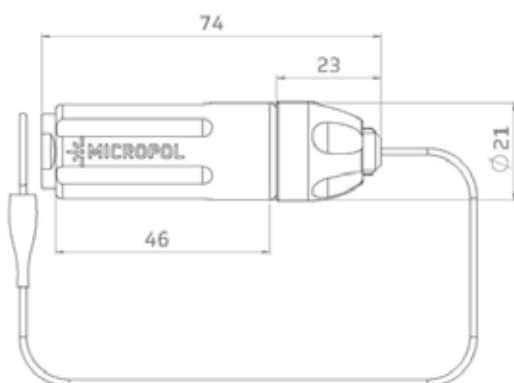
Common applications for the FALCON Mini Plug LP include containers and combat vehicles such as the CV90, where space is extremely limited.

FEATURES

- Up to 40 Gbit/s per channel
- Advanced expanded beam technology
- Highly compact connector design
- Hermaphroditic interconnection
- 1–4 fiber channels, single-mode, multi-mode or mixed mode
- No adapters needed
- Low-downtime field repair
- Easy cleaning, no special tools required

COMPATIBLE WITH

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



TECHNICAL SPECIFICATION

FALCON MINI PLUG LP



STANDARD CONFIGURATIONS

FALCON™ Mini	1 to 4 channels
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OPTICAL

Type	Single-mode (SM), multi-mode (MM) or mixed mode
Bandwidth	Up to 40Gbit/s
Insertion loss (SM)	Typical: -0.8 dB (1,310 nm) Maximum: -1.2 dB (1,310 nm)
Insertion loss (MM)	Typical: -0.8 dB (1,300 nm) Maximum: -1.0 dB (1,300 nm)
Return loss (PDL)	> 35 dB at 1,310 nm or 1,550 nm Polarization dependent loss < 0.35 dB

MECHANICAL

Coupling type	Hermaphroditic
Compliance	ROHS & REACH
Material	Hard anodized aluminum (MIL-A-8625 TYPE III CLASS 2)
Optional material	Marine bronze, stainless steel or titanium
Color	Gray
Durability	3,000 mating cycles (MIL-DTL-83526)
Free fall	500 drops from 1.2 meters height (IEC 68-2-32-P II)
Vibration	5-500 Hz, 0.75 mm amplitude at 10 g (IEC 68-2-6-Fc)
Mechanical shock	3 x 4,000 cycles at 390 m/s ² (IEC 68-2-29-Eb)
Shock pulse	11 ms, half sine at 35 g, 3 axes (x, y, z) (IEC 68-2-29-Eb)

ENVIRONMENTAL

Operating temperature	-57 °C to +85 °C, +100 °C optional
Ingress protection	IPX7
Air pressure	< 25 kPa -55 °C during 4h (IEC 68-2-13, test M)
Corrosion resistance	500h salt spray (IEC 68-2-11 ka)
Flammability	DOD-STD-1678, method 5010

V5.3, 2026-06-29



MORE INFORMATION