

FALCON™ MINI D-HOLE LP



MINI-SIZE EXPANDED BEAM BULKHEAD RECEPTACLE



The FALCON Mini D-hole LP is a mini-size expanded beam bulkhead receptacle. It is available in configurations with 1–4 channels and is designed for heavy-duty tactical applications.

This bulkhead receptacle features a small installation footprint, enabling compact ODF integration. Its locknut is positioned on the outside of the ODF, and its high-performance strain relief and boot provide the robustness required for demanding field deployments.

The FALCON Mini D-hole LP is mounted on panels inside ODF enclosures. Because the locknut is positioned on the inside, it is protected against physical tampering. The Mini D-hole LP is especially well suited for multi-connector installations, as it can be inserted from inside the panel and secured by tightening the locknut from the outside—often simplifying installation compared to internal ODF mounting.

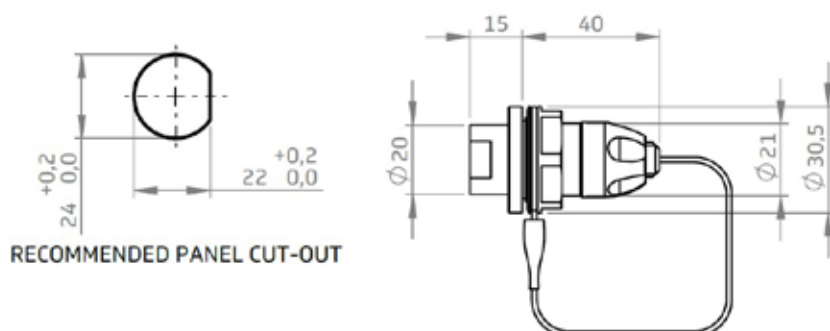
The FALCON Mini D-hole LP is used in military command and control centers, containers, converters, and switches, and is deployed in built-in ODF enclosures in various types of defense vehicles, air-defense units, and other space-constrained applications.

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



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)
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/s² (IEC 68-2-29-Eb)
Shock pulse	11 ms, half sine at 35 g, 3 axes (x, y, z) (IEC 68-2-29-Eb)
Recommended wall thickness	2-3 mm

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