FALCON™ JUNIOR D-HOLE LP

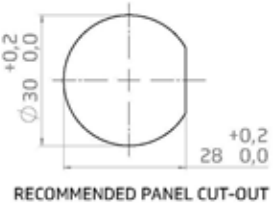
JUNIOR-SIZE EXPANDED BEAM BULKHEAD RECEPTACLE

The FALCON Junior D-hole LP is the only low-profile junior-size expanded beam bulkhead receptacle in the world available with 1–12 fiber channels and a beam size approved in accordance with MIL-DTL-83526/21C. The receptacle is designed for heavy-duty tactical applications.

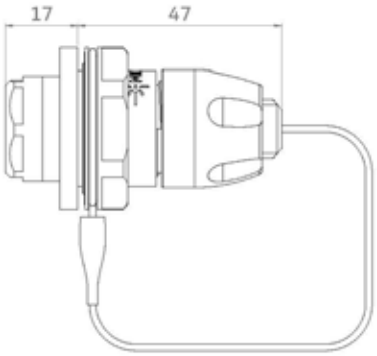
This bulkhead receptacle delivers unmatched data rates, tripling density within a standard military footprint. It mates directly with tactical fiber-optic cables fitted with junior-size plugs and is equipped with high-performance strain relief, providing the robustness required for demanding field deployments.

The FALCON Junior D-hole LP is mounted on panels inside ODF enclosures. The receptacle features the smallest junior-size installation footprint on the market, enabling highly compact ODF integration. It 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 Junior D-hole LP is used in command and control centers, containers, converters, and switches, and is deployed in integrated ODF enclosures across defense vehicles, air-defense systems, and other space-constrained applications.



RECOMMENDED PANEL CUT-OUT



FEATURES

- Designed in accordance with MIL-DTL-83526/21C*
- Up to 40 Gbit/s per channel
- Advanced expanded beam technology
- Compact connector design
- Hermaphroditic interconnection
- 1–12 fiber channels, single-mode, multi-mode or mixed mode
- No adapters required
- Low-downtime field maintenance
- Easy cleaning, no special tools required

* Excludes the 12-channel configuration

COMPATIBLE WITH*

- FIBRECO Junior
- QPC Q - Mini
- TE PRO-BEAM - Junior
- Amphenol TacBeam
- Stratos HMA

* Excludes the 12-channel configuration

TECHNICAL SPECIFICATION
FALCON JUNIOR D-HOLE LP

MICROPOL

STANDARD CONFIGURATIONS

FALCON™ Junior	1 to 12 channels

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/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)
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

V7.3, 2026-06-29

MORE INFORMATION