

FALCON™ MINI D-HOLE SEALED



MINI-SIZE EXPANDED BEAM BULKHEAD RECEPTACLE



The FALCON Mini D-hole Sealed is an environmentally protected mini-size expanded beam bulkhead receptacle, available in configurations with 1–4 channels and designed for heavy-duty tactical applications.

This bulkhead receptacle is designed for mounting on open panels and mates with tactical fiber-optic cables fitted with expanded beam plugs. It is equipped with high-performance strain relief and a protective boot, providing the robustness required for demanding field deployments.

The FALCON Mini D-hole Sealed is ideal for installations where the connector cannot be housed within an enclosure, such as cabinet installations with no space available for an ODF. As the receptacle is environmentally sealed by design, it is suitable for outdoor mounting on panels, poles, or walls.

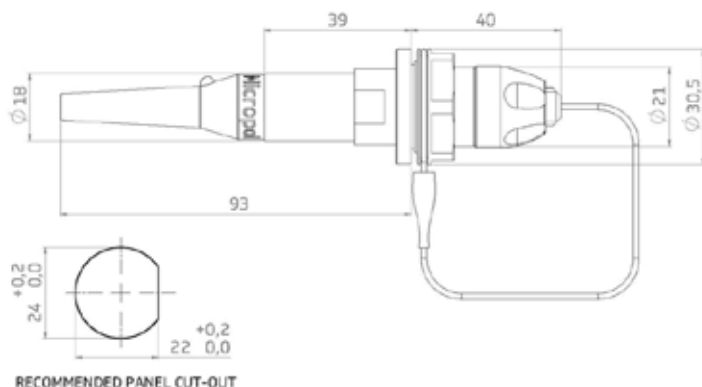
The FALCON Mini D-hole Sealed is widely used by the Swedish Armed Forces due to its reliable performance in harsh weather conditions, and it is deployed in unsealed cabinets to enable dependable field connections.

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 D-HOLE SEALED



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/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

V4.3, 2026-06-29



MORE INFORMATION