

FALCON™ MINI XLR

MINI-SIZE EXPANDED BEAM BULKHEAD RECEPTACLE



The FALCON Mini XLR (External Line Return) is a mini-size expanded beam bulkhead receptacle specifically adapted to the event industry, available in configurations with 1–4 channels and designed for heavy-duty applications.

The FALCON Mini XLR is an expanded beam connector designed specifically for the event industry, where XLR technology has long been an industry standard. The FALCON Mini XLR features a square profile secured by two screws.

Expanded beam connectors are used in this environment because they withstand frequent mating and unmating, which is common within the event industry. Since expanded beam connectors have no physical contact between the lenses, they tolerate significantly more mating cycles.

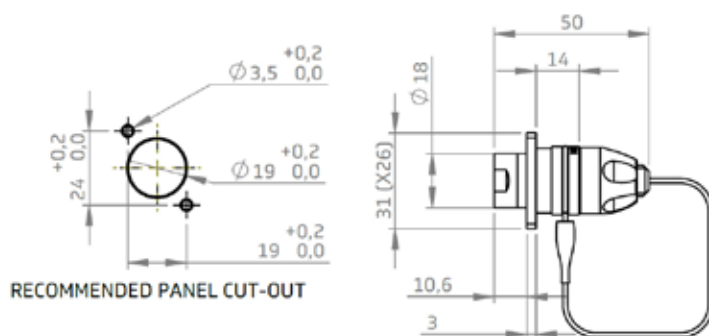
The FALCON Mini XLR is used in the music, theater, and event industries for ODF boxes, converters, switches, and mixing consoles. Its rugged design also ensures durability in harsh conditions, which has made it popular for outdoor applications such as live TV broadcasting.

FEATURES

- Up to 40 Gbit/s per channel
- Advanced expanded beam technology
- Compact connector design
- Hermaphroditic interconnection
- 1–4 fiber channels, single-mode, multi-mode or mixed mode
- No adapters required
- Low-downtime field maintenance
- 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

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MORE INFORMATION