

FALCON™ JR PLUG, LOW PROFILE

Product sheet
FALCON™ JR Plug LP

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The FALCON connectors offer the best attenuation values and smallest 12-channel connector foot print on the market. With insertion loss of <1,2 dB it outperforms the NATO specification (<2,5 dB) have the best optical performance on the market.

This is achieved with Micropol's lens technology, state of the art production and alignment process.

The FALCON expanded beam connector JR Plug Low-Profile is the only junior sized connector in the world with a range from 1- 12 fibers, that have approved beam size according to MIL-M83526/20&21.

The Low-Profile allows it to be used even in the most cramped environments and installations.

Like the other connectors in the FALCON family, it is compatible with other Junior-size expanded beam connectors on the market.

FEATURES

- Insertion loss <1,2 dB
- Only expanded beam approved for 40G transmission per channel (optional)
- Only 12-channel junior connector in the world with collimated light beam according to MIL-DTL-83526/20&21
- Temperature range -57°C – +85°C (+100°C optional)
- Hermaphroditic interconnection
- Rugged connector design
- Keyed boot for 'blind mating'
- No adaptors needed
- Easy clean, no special tools

COMPATIBLE WITH*:

FIBRECO JUNIOR

QPC Q-MINI

TE PRO-BEAM Junior

Amphenol TacBeam

Stratos HMA

** Exception 12-channel*



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Optical

| | |
|---------------------|--|
| Type | Single-mode (SM), Multi-mode (MM) or hybrid |
| Transmission | 10Gbit/s (40Gbit/s optional) |
| Insertion loss (SM) | Typical insertion loss -0,8dB (1310 nm) Maximum insertion loss -1,2dB (1310 nm) |
| Insertion loss (MM) | Typical insertion loss -0,8dB (1300 nm) Maximum insertion loss -1,0dB (1300 nm) |
| Return loss | >35dB at 1310nm or 1550nm Polarization dependent loss less than 0,35 dB |

Mechanical

| | |
|----------------------------|--|
| Coupling type | Hermaphroditic |
| Compliant | ROHS & REACH |
| Material | Hard anodized aluminum |
| Alternative material | Marine bronze & stainless steel |
| Colour | Gray |
| Durability | 3000 mating cycles |
| Free fall | 500 falls from 1,2 meters height |
| Vibration | 5-500Hz, 0,75mm amplitude at 10G |
| Shaking | 390 m/S numbers of shakes 3x4000 |
| Shock pulse length | 11ms, half sine at 35g Numbers of axis: 3 (x, y, z) |
| Recommended wall thickness | 2-3 mm |

Environmental

| | |
|-----------------------|---------------------------------|
| Operating temperature | -57°C to +85°C, +100°C optional |
| Water immersion | IP67 |
| Air pressure | <25kPa -55°C during 4h |
| Corrosion resistance | 500h salt spray |
| Flammability | DOD-STD-1678, method 5010 |