

PROCON™ JUNIOR PLUG LP



JUNIOR-SIZE EXPANDED BEAM PLUG



The PROCON Junior Plug LP is a low-profile junior-size expanded beam plug based on Micropol's world-class FALCON technology, available with 1–4 fiber channels and designed in accordance with MIL-DTL-83526/20C. The plug is designed for heavy-duty tactical applications.

This plug delivers high data rates within a standard military footprint. It mates directly with tactical fiber-optic cables fitted with other junior-size expanded beam bulkhead receptacles, and is equipped with high-performance strain relief, providing the robustness required for demanding field deployments.

Because the LP version does not include a protective boot, it is shorter than the standard PROCON Junior Plug and is therefore suitable for cabinets or confined spaces with doors or hatches. Unlike the standard version, the LP is not deployed on cable reels but is instead used for fixed installations, for example in cross-connect cabinets.

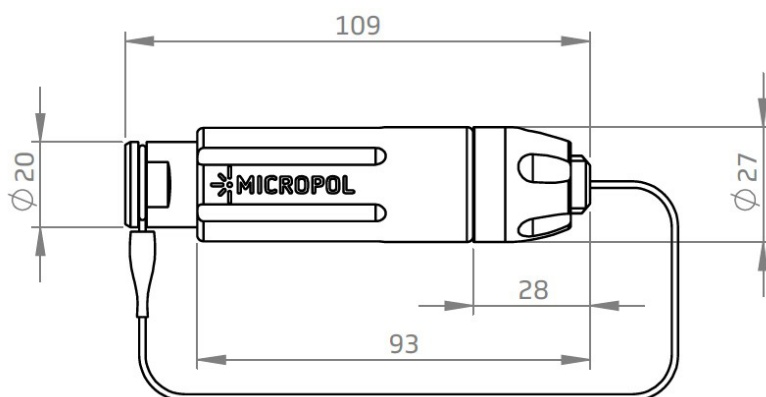
The PROCON Junior Plug LP's combination of 1–4 independent channels and 10 Gbit/s bandwidth per channel enables efficient data separation and multi-sensor data streams within a single rugged tactical connector footprint. Common applications include containers and combat vehicles such as the CV90, where space is extremely limited.

FEATURES

- Designed in accordance with MIL-DTL-83526/20C
- Up to 10 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 Junior
- QPC Q - Mini
- TE PRO-BEAM - Junior
- Amphenol TacBeam
- Stratos HMA



TECHNICAL SPECIFICATION

PROCON JUNIOR PLUG LP



STANDARD CONFIGURATIONS

PROCON™ Junior	1 to 4 channels
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OPTICAL

Type	Single-mode (SM), multi-mode (MM), or mixed mode
Bandwidth	Up to 10 Gbit/s
Insertion loss (SM)	Typical: -1.0 dB (1,310 nm) Maximum: -1.5 dB (1,310 nm)
Insertion loss (MM)	Typical: -1.0 dB (1,300 nm) Maximum: -1.5 dB (1,300 nm)
Return loss (PDL)	> 35 dB at 1,310 nm or 1,550 nm Polarization dependent loss < 0.5 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)
Free fall	500 drops from 1.2 m (IEC 68-2-32-P II)
Vibration	5-500 Hz, 0.75 mm amplitude at 10 g
Mechanical shock	3 x 4,000 cycles at 390 m/s ² (IEC 68-2-29-Eb)
Shock pulse length	11 ms half-sine at 35 g, 3 axes (x, y, z) (IEC 68-2-29-Eb)

ENVIRONMENTAL

Operating temperature	-57 °C to +85 °C
Ingress protection	IPX7
Air pressure	< 25 kPa -55 °C for 4 hours (IEC 68-2-13, test M)
Corrosion resistance	500 h salt spray (IEC 68-2-11 ka)
Flammability	DOD-STD-1678, method 5010

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MORE INFORMATION