

PROCON™ JUNIOR PLUG

JUNIOR-SIZE EXPANDED BEAM PLUG



The PROCON Junior Plug is a 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 and a protective boot, providing the robustness required for demanding field deployments.

The PROCON Junior Plug can be daisy-chained into extended cable lengths suitable for temporary field communications, and its rugged design makes it durable even in harsh conditions. The plug is often supplied on a cable reel or backpack system with fiber-optic cable spooled on a drum.

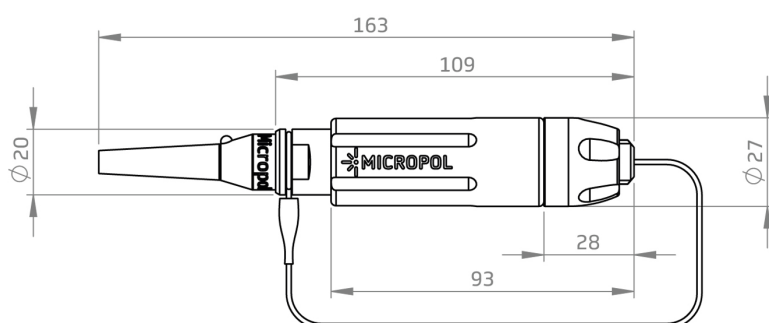
The PROCON Junior Plug's combination of up to four independent channels and 10 Gbit/s bandwidth per channel enables efficient data separation and multi-sensor data streams within a single rugged tactical connector footprint. It is also ideal for communications in industrial, shipping, and offshore applications with exposed outdoor connector points.

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



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

V2.3, 2026-06-29

MORE INFORMATION