

PROCON™ EXPANDED BEAM CONNECTORS

Product sheet
PROCON Expanded Beam
Connectors

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FEATURES

- Insertion loss <1,5 dB
- 10G transmission per channel (optional)
- Approved beam according to MIL-DTL-83526 20/21 Military standard
- Temperature range -57°C – +85°C
- Hermaphroditic interconnection
- Rugged connector design
- Keyed boot for blind mating
- No adaptors needed
- Easy clean, no special tools

The PROCON connectors offer good attenuation, with an insertion loss of <1,5 dB.

Micropol supplies cable system PROCON with rugged, high-quality cables that can cope with both extreme temperatures ranging from -57°C to +85°C and high physical impact.

Our fiber optic cables are tested to last +15.000.000 bends at 30 mm radius and can hang free for 1,2 km with proportions intact. Lengths range from a few decimeters up to several kilometers.

Bulkhead connectors can be provided with conductive surface to discard EMI.



COMPATIBLE CHART

Brand	PROCON™ MINI	PROCON™ JR
FIBRECO JUNIOR		X
FIBRECO MINI 2	X	
QPC Q-MICRO	X	
QPC Q-MINI		X
TE PRO-BEAM		X
TELECAST MX - MINI	X	
TE PRO-BEAM MINI	X	
Amphenol TacBeam		X
Stratos HMA		X

PROCON™ EXPANDED BEAM CONNECTOR

Standard configurations

PROCON™ MINI	1 to 4 channels
PROCON™ JUNIOR	1 to 4 channels

Optical

Type	Single mode (SM), multimode (MM) or hybrid
Transmission	10Gbit/s
Insertion loss (SM)	Typical Insertion Loss -1,0dB (1310 nm) Maximum Insertion Loss -1,5dB (1310 nm)
Insertion loss (MM)	Typical Insertion Loss -1,0dB (1300 nm) Maximum Insertion Loss -1,5dB (1300 nm)
Return loss (PDL)	>35dB at 1310nm or 1550nm Polarization dependent loss less than 0,5dB

Mechanical

Coupling type	Hermaphroditic
Compliant	ROHS & REACH
Material	Hard anodized aluminum
Alternative material	Marine bronze, stainless steel or titanium
Colour	Grey
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 - not valid for cable plug JR and Mini

Environmental

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