

PROCON™

EXPANDED BEAM CONNECTORS



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.

FEATURES

- Insertion loss <1,5 dB
- Temperature range 57°C – +85°C
- Hermaphroditic interconnection
- Rugged connector design
- Keyed boot for blind mating
- No adaptors needed
- Easy clean, no special tools

COMPATIBLE WITH

Brand	Mini	Junior
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

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 (MIL-A-8625 TYPE III CLASS 2)
Alternative material	Marine bronze, stainless steel or titanium
Colour	Grey
Durability	3000 mating cycles (MIL-DTL-83526)
Free fall	500 falls from 1,2 meters height (IEC 68-2-32-P II)
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

V2.2, 2025-10-14



MORE INFORMATION

DIMENSIONS PLUG & CHASSI CONNECTORS

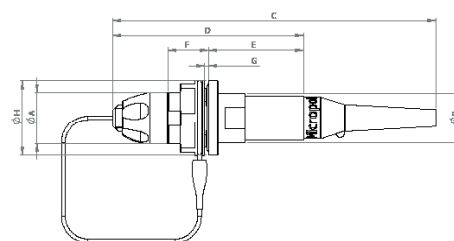
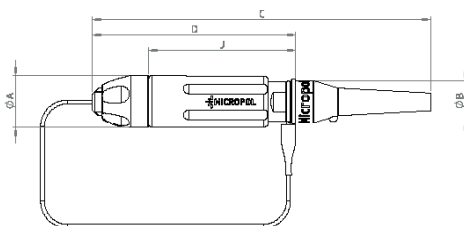
Connector	A	B	C	D	E	F	G	H	J
Mini D-hole SLP	21	17,5	N/A	49	15	11	1-3	Ø22	N/A
Mini D-hole	21	20	132	78	39	17	1-3	Ø30,5	N/A
Mini D-hole LP	21	20	N/A	59	15	17	1-3	Ø30,5	N/A
Junior D-hole	27	24	N/A	2-4ch: 86 6-12ch: 101	2-4ch: 40 6-12ch: 55	17,5	1-3	Ø37	N/A
Junior D-hole LP	27	24	N/A	62	16,5	17,5	1-3	Ø37	N/A
Mini Square	22	17,5	N/A	50	10,5	16,5	1-15	o25,3	N/A
Junior Square	27	24	N/A	2-4ch: 86 6-12ch: 101	2-4ch: 36*/42** 6-12ch: 51*/57**	22*/16**	1- 30*/7**	o37	N/A
Junior Square LP	27	24	N/A	62	12,5*/18,5**	22*/16**	1- 12*/7**	o37	N/A
Mini XLR	22	17,5	N/A	50	10,5	16,5	1-15	31x26 (h x w)"	N/A
Mini Plug	21	18	N/A	82	N/A	N/A	N/A	N/A	59
Mini Plug LP	21	16	N/A	74	N/A	N/A	N/A	N/A	51
Junior Plug	27	20	N/A	107	N/A	N/A	N/A	N/A	79
Junior Plug LP	27	20	N/A	107	N/A	N/A	N/A	N/A	79

All dimensions in mm.

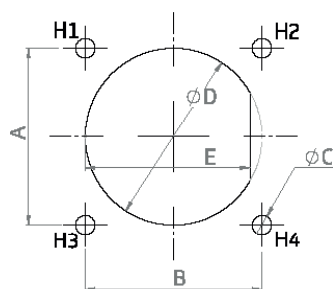
* External mounting

** Internal mounting

#	Description
A	Front Diameter
B	Rear Diameter
C	Total length with protective cap and boot
D	Total length with protective cap
E	Rear to wall face.
F	Wall face to mating face.
G	Wall thickness.
H	Flange shape & size
J	Rear side to mating face.



RECOMMENDED PANEL CUT-OUT



Connector	A	B	C	øD	E
Mini D-hole SLP	N/A	N/A	N/A	17,5 +0,2/-0,0	16,7 +0,2/-0,0
Mini D-hole	N/A	N/A	N/A	24,0 +0,2/-0,0	22,5 +0,2/-0,0
Junior D-hole	N/A	N/A	N/A	30,0 +0,2/-0,0	28,0 +0,2/-0,0
Mini Square	19,0 ± 0,2	19,0 ± 0,2	-Clearance hole: 2,7 ± 0,1 -Threaded hole: M2,5	19,0 ± 0,2/-0,0	NA
Junior Square	30,0 ± 0,2	30,0 ± 0,2	-Clearance hole: 3,3 ± 0,1 -Threaded hole: M3	28,0 +0,2/-0,0	NA
Mini XLR	24,0* ± 0,2	19,0* ± 0,2	-Clearance hole: 3,3 ± 0,1 -Threaded hole: M3	19,0 +0,2/-0,0	NA

All dimensions in mm.

*Only hole H1 & H4 to be used (diagonal)