



[www.micropol.com](http://www.micropol.com)

Micropol Fiberoptic AB is located in Åled on the Swedish west coast. We are one of Sweden's oldest and most experienced companies within the field of passive fiber optics.

Micropol manufactures and supplies cable systems with rugged, high-quality field cables that can cope with extreme temperatures. Lengths range from a few decimeters to up to several kilometers. We offer different types of expanded beam connectors, both for single-mode and multimode. Take for example our Falcon connector which is used for harsh military and aerospace environments. They are all hermaphroditic, and always connect correctly without any adapter needed.

**The smallest expanded beam connector on the market - FALCON**

- FALCON Mini 1–4 channels, Junior 1-12 channels, Senior 1-16 channels
- Insertion loss < 1,2 dB
- Operating temperature -57 to +85°C, +100°C optional.
- Single Mode/Multi Mode
- Hermaphroditic
- IP67
- In accordance with MIL-DTL-83526/20&21



**Mechanical**

Coupling type	Hermaphroditic
Compliant	ROHS
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 10grams
Shaking	390 m/S numbers of shakes 3x4000
Shock pulse length	11ms, half sine at 35g Numbers of axis: 3 (x, y, z)

**Environmental**

Operating Temperature	-55°C to +85°C, +100°C optional
Water Immersion	10 m water depth-mated
Air pressure	<25kPa -55°C during 4h
Corrosion resistance	500h salt spray
Flammability	DOD-STD-1678, method 5010

## Tactical Cable Reel



- 1–16 fiber
- Mounted on cable reel
- Split with fanout cable
- Insertion loss < 1,2 dB
- Connector size: mini, junior, senior
- 15 000 000 bendings at 30 mm radius
- Operational temperature range from -40C to +85C
- Standard configuration up to 500 meters (can be adjusted according to specifications)



## Cable



- For heavy duty use
- 1–384 fiber
- Operating temperatur -55°C to +85°C
- Vertical installation
- High flex, up to 15 million bends
- Rodent resistant

## Mil-PatchCord



- Operating temperature -55 to +85°C
- Connectors with metal outer body
- Cut resistant
- Higher spring load
- Tailor-made

Field Repair Kit

