



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

# Micropol

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 AND LOWEST LOSS 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 vs Nato standard < 2.5 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 10 g
- Shaking** : 390 m/S numbers of shakes 3x4000
- Shock pulse length** : 11ms, half sine at 35g  
Numbers of axis: 3 (x, y, z)

### ENVIROMENTAL

- 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

## 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 -40°C to +85°C
- ◆ Standard configuration up to 500 meters (can be adjusted according to specifications)

## BACKPACK CABLE DRUM



## 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

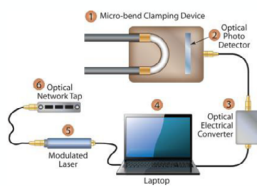


- ◆ Operating temperature -55 to +85°C
- ◆ Connectors with metal outer body
- ◆ Cut resistant
- ◆ Higher spring load
- ◆ Standard and Tailor-made

## TEST KITS



## CABLE MONITOR



Prevents information tapping, detects cable cut off and cable vibrations

- ◆ Detects cable cut-off
- ◆ Detects specific vibrations of the cable
- ◆ Detects specific vibrations of the cable

## DISTRIBUTION FRAMES, PIGTAILS, PATCHCORDS



- ◆ Insertion loss < 0.2dB
- ◆ Return Loss > -55 dB
- ◆ 2-384 fiber

## CUSTOM SOLUTIONS



## ODF BOXES



- ◆ Future proof
- ◆ Tailor-made
- ◆ Insertion loss < 0.2 dB
- ◆ Return loss > -55 dB (UPC)
- ◆ Return loss > -65 dB (APC)
- ◆ 2-384 fiber
- ◆ More fiber available on request

## FAN OUT



- ◆ Single mode/multi mode
- ◆ 2, 4, 8, 12, 16, 24 FIBER
- ◆ Standard lengths 1.6 or 2.4 m
- ◆ Customized lengths on request
- ◆ Rugged fanout
- ◆ Insertion loss < 0.2 dB
- ◆ Return loss > -55 dB (UPC), > -65 dB (APC)
- ◆ Available in S12 color coding

## ATTENUATOR



- ◆ Metal ion doped fiber
- ◆ High-power light source durability
- ◆ Wavelength independence
- ◆ Attenuation levels ranging from 1 dB to 30 dB
- ◆ 1310 nm, 1550 nm, 1250-1625 nm and 1350/1550 nm dual wave lengths

## MTP/MTO



- ◆ Data center approved
- ◆ Insertion loss (reference cable)<0.3 dB/channel
- ◆ Return loss > -65 dB (SM)
- ◆ High density 4-72 fiber
- ◆ MTP-MPO fanout
- ◆ MTP-MPO patch
- ◆ MTP-MPO jumper cable assembly