FALCON™ CABLE REELS

Productsheet
Falcon™ Cable Reel

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Micropol Fiberoptic AB
Älvdalsvägen 4
313 50 Åled

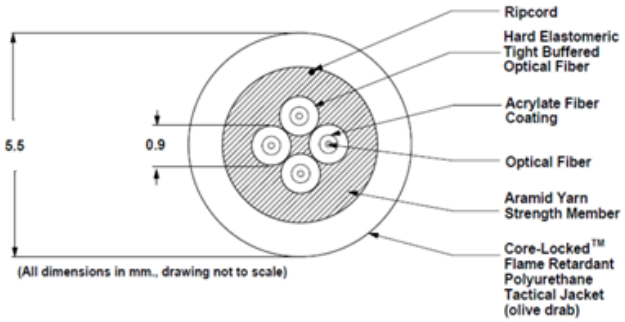
Phone: +46 (0)35 17 85 39
Mail: info@micropol.com

MISSION READY FOR EXTREME CONDITIONS

Micropol offers a wide range of products and accessories in the field of tactical optical fiber for harsh environments. Our cable reels organize and protect tactical fiber for use and storage in tough conditions. It combines low weight with high endurance and can be customized in terms of e.g. length and color. It can either be fully assembled on a cable reel and in cable lengths of your choice with Falcon™ connectors or as fanout cables. Associated products include e.g. low weight ergonomic backpacks for easy field deployment of optical fiber.

All our products are developed and manufactured in Sweden. They fulfill the toughest specifications of harsh environment fiber optic systems available.

CUT-THROUGH VIEW; CABLE



FEATURES

- Mounted on cable reel
- Split with fanout cable
- Approved by the Swedish Armed Forces

Channels	1-16 fiber channels
Connector size	Mini, Junior & Senior
Bending	15 000 000 bendings at 30mm radius
Operational temperature	-55°C to +85°C, +100°C optional
Cable length	Standard configuration up to 500 meters (can be adjusted according to specifications)

FOR MORE INFORMATION

Check www.micropol.com or call us on +46 (0)35 260 72 18.

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FALCON™ EXPANDED BEAM CONNECTOR

Standard configurations

FALCON™ MINI	1 to 4 channels
FALCON™ JUNIOR	1 to 12 channels
FALCON™ SENIOR	1 to 16 channels

Optical

Type	Single mode (SM), multimode (MM) or hybrid
Insertion Loss (SM)	Typical Insertion Loss <0,8dB (1310 nm) Maximimum Insertion Loss 1,2dB (1310 nm)
Insertion Loss (MM)	Typical Insertion Loss <0,8dB (1300 nm) Maximum Insertion Loss 1,0dB (1300 nm)
Return loss	>35dB at 1310nm or 1550nm PDL less than 0,35dB (Polarization Dependent Loss)

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)

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

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