

X-TREME



FIBERFOX X-TREME EBC25 4CH Cable

The FIBERFOX X-TREME EBC25 4CH cable connector offers a cut-proof and rodent resistant double jacket glasses yarn cable construction. Excellent cable retention is achieved using aramid yarn. The entire cable design is encased by a black PUR outer jacket. This makes the cable assembly ideal for outdoor applications. It withstands greater impacts caused by animals and the outdoor environment. FIBERFOX X-TREME is suited for a vast array of applications, including lighting, network, PA, video, broadcast, defense & government, railway, and petrochemical. The innovative design ensures its ability for deployment in the toughest environments where constant performance and total reliability are critical. The FIBERFOX EBC25 series has an improved temperature resistance of -46°C to 71°C. The connector's dimensions fully comply with the specifications of the MIL-DTL-83526 standard and is compatible with other connectors which use this standard.

Benefiting from the expanded beam technology and the precision optical alignment the system creates high immunity against dust, mud, liquids, and other contaminations. The FIBERFOX hermaphroditic coupling eliminates the need for adaptors and female and male mating halves. The cable connector comes pre-assembled and is not available as a single component. The finished cable is available in standardized lengths and is packed either on a drum or air spool.

Features & Benefits

- X-TREME cable protection for demanding outdoor applications
- Extreme robust, heavy-duty, connectors IP68 (mated & unmated)
- Wear-free connectors, > 10'000 mating cycles without any maintenance
- Higher temperature resistance (compared to EBC15): -46°C to 71°C (-51°F to 160°F)
- No special cleaning or measurement tools required
- Rodent-resistant & cut-proof
- Cables are directly extendable, no couplers required
- Jam-nut design (chassis)
- Dimensions fully comply with the specifications of the MIL-DTL-83526 and are compatible with other connectors using this standard



FIBERFOX X-TREME EBC25 4CH ordering options

Code	Description
NKOX4M3-FG-0-005	FF X-TREME EBC25 MM 4CH 5m OM3 airspool
NKOX4M3-FG-0-010	FF X-TREME EBC25 MM 4CH 10m OM3 airspool
NKOX4M3-FG-0-020	FF X-TREME EBC25 MM 4CH 20m OM3 airspool
NKOX4M3-FG-0-050	FF X-TREME EBC25 MM 4CH 50m OM3 airspool
NKOX4M3-FG-0-100	FF X-TREME EBC25 MM 4CH 100m OM3 airspool
NKOX4M3-FG-0-150	FF X-TREME EBC25 MM 4CH 150m OM3 airspool
NKOX4M3-FG-3-050	FF X-TREME EBC25 MM 4CH 50m OM3 CableReel GT380
NKOX4M3-FG-3-100	FF X-TREME EBC25 MM 4CH 100m OM3 CableReel GT380
NKOX4M3-FG-5-150	FF X-TREME EBC25 MM 4CH 150m OM3 CableReel GT450
*Customized cable solutions with different length up on request	

Markets & Applications

- Defense & Government
- Railway
- Oil & Gas Station
- Video
- PA Market
- Lighting & Network

Technical Information

Product	
Title	FIBERFOX X-TREME EBC25 4CH Cable
Gender	Hermaphroditic

Mechanical	
Tensile Strength	1'800N
Compressive load	50'000N
Lifetime (typ.)	10'000 mating cycles
Bump resistance	4000 bumps @ 40g acceleration
Vibrational sinusoidal	10-500Hz, 0.75 amplitude @ 10g acceleration

Material	
Boot	Rubber (EPDM)
Insert	Steel
Shell	Aluminium
Shell plating	Hard anodize
Strain relief	Brass

Environmental	
Flammability	UL 94 V-0
Protection class	IP68 mated (15m for 24h acc. MIL-DTL-83526D Section 3.11.28) and unmated (1m for 24h)
Compatibility	MIL-DTL-83526
Temperature range	-46°C to +71°C (-51°F to 160°F)

Optical

Insertion loss	Typ. 0.7dB per Connector / Max. 1.0dB per Connector
Optical connector	EBC25
Optical wiring	ISO / IEC 11801

Mobile cable

Colour	Black, matte
Core diameter	Multimode 50µm
Cladding diameter	125 µm
Cable jacket	PUR
minimal bending radius	92 mm
Number of fibers	4
Cable rentation	Aramid yarn
Weight	82 kg/km
Overall diameter	9.2 mm
Outer shield	Coated glass yarn