

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.

FIBERFOX X-TREME is now available in both multimode and singlemode.

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 airspool, and can be supplied in

custom lengths upon request.

Features & Benefits

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



FIBERFOX X-TREME EBC25 4CH Ordering Options

Multimode Order Code	Multimode Product Code	Description	Singlemode Order Code	Singlemode Product Code	Description
1036317	NKOX4M3-FG-0-050	FF X-TREME EBC25 MM 4CH 50m OM3 airspool	1038663	NKOX4S-FG-0-050	FF X-TREME EBC25 SM 4CH 50m airspool
1036341	NKOX4M3-FG-3-050	FF X-TREME EBC25 MM 4CH 50m OM3 CableReel GT380	1038664	NKOX4S-FG-3-050	FF X-TREME EBC25 SM 4CH 50m CableReel GT380

1036321	NKOX4M3-FG-0-100	FF X-TREME EBC25 MM 4CH 100m OM3 airspool	1038665	NKOX4S-FG-0-100	FF X-TREME EBC25 SM 4CH 100m airspool
1036347	NKOX4M3-FG-3-100	FF X-TREME EBC25 MM 4CH 100m OM3 CableReel GT380	1038666	NKOX4S-FG-3-100	FF X-TREME EBC25 SM 4CH 100m CableReel GT380
1036327	NKOX4M3-FG-0-150	FF X-TREME EBC25 MM 4CH 150m OM3 airspool	1038667	NKOX4S-FG-0-150	FF X-TREME EBC25 SM 4CH 150m airspool
1036351	NKOX4M3-FG-5-150	FF X-TREME EBC25 MM 4CH 150m OM3 CableReel GT450	1038668	NKOX4S-FG-5-150	FF X-TREME EBC25 SM 4CH 150m CableReel GT450
1036329	NKOX4M3-FG-0-200	FF X-TREME EBC25 MM 4CH 200m OM3 airspool	1038669	NK04XS-FG-0-200	FF X-TREME EBC25 SM 4CH 200m airspool
1036333	NKOX4M3-FG-0-300	FF X-TREME EBC25 MM 4CH 300m OM3 airspool	1038671	NK04XS-FG-0-300	FF X-TREME EBC25 SM 4CH 300m airspool

1036337	NKOX4M3-FG-0-500	FF X-TREME EBC25 MM 4CH 500m OM3 airspool	1038673	NKO4XS-FG-0-500	FF X-TREME EBC25 SM 4CH 500m airspool
1036339	NKOX4M3-FG-0-1000	FF X-TREME EBC25 MM 4CH 1000m OM3 airspool	1038674	NKO4XS-FG-0-1000	FF X-TREME EBC25 SM 4CH 1000m airspool

* Customized Cable Solutions with different lengths available upon 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 Multimode	Typ. 1.5dB per connection / Max. 2.5dB per connection
Return Loss Multimode	N/A
Insertion Loss Singlemode	Typ. 1.0 dB max. 2.0 dB per connection (according with IEC 61300-3-4) Max. 2.5dB per connection (acc. with IEC 61300-3-34)
Return Loss Singlemode	Typ. >32dB (according with IEC 61300-3-6)
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 reinforcement	Aramid yarn
Weight	82 kg/km
Overall diameter	9.2 mm
Outer shield	Coated glass yarn