



FIBERFOX EBC25 4CH Cable

The FIBERFOX EBC25 4CH Cable connector is an expanded beam hermaphroditic connector designed for a vast array of applications. Its jam-nut design is suitable for all kinds of industrial, defense & governmental and even railway applications. 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. Neutrik offers this extraordinary connector solution in singlemode and multimode.

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.

Features & Benefits

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



FIBERFOX EBC25 4CH ordering options

Multimode product code	Description	Singlemode product code	Description
NKO4M3-FG-0-005	FIBERFOX EBC25 MM 4CH 5m OM3 Airspool	NKO4S-FG- 0-005	FIBERFOX EBC25 SM 4CH 5m Airspool
NKO4M3-FG-0-010	FIBERFOX EBC25 MM 4CH 10m OM3 Airspool	NKO4S-FG- 0-010	FIBERFOX EBC25 SM 4CH 10m Airspool
NKO4M3-FG-0-020	FIBERFOX EBC25 MM 4CH 20m OM3 Airspool	NKO4S-FG- 0-020	FIBERFOX EBC25 SM 4CH 20m Airspool
NKO4M3-FG-0-050	FIBERFOX EBC25 MM 4CH 50m OM3 Airspool	NKO4S-FG- 0-050	FIBERFOX EBC25 SM 4CH 50m Airspool
NKO4M3-FG-0-100	FIBERFOX EBC25 MM 4CH 100m OM3 Airspool	NKO4S-FG- 0-100	FIBERFOX EBC25 SM 4CH 100m Airspool
NKO4M3-FG-0-150	FIBERFOX EBC25 MM 4CH 150m OM3 Airspool	NKO4S-FG- 0-150	FIBERFOX EBC25 SM 4CH 150m Airspool
NKO4M3-FG-2-050	FIBERFOX EBC25 MM 4CH 50m OM3 Cablereel GT310	NKO4S-FG- 2-050	FIBERFOX EBC25 SM 4CH 50m Cablereel GT310
NKO4M3-FG-2-100	FIBERFOX EBC25 MM 4CH 100m OM3 Cablereel GT310	NKO4S-FG- 2-100	FIBERFOX EBC25 SM 4CH 100m Cablereel GT310
NKO4M3-FG-2-150	FIBERFOX EBC25 MM 4CH 150m OM3 Cablereel GT310	NKO4S-FG- 2-150	FIBERFOX EBC25 SM 4CH 150m Cablereel GT310

*Customized cable solutions with different length up on request			
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Market & Applications

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

Technical Information

Product	
Title	FIBERFOX EBC25 4CH
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. 0.7dB per connection / Max. 1.0dB per connection
Return Loss Multimode	N/A
Insertion Loss Singlemode	Typ. 1.0 dB max. 2.0 dB (according with IEC 61300-3-4) Max. 2.5dB (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, shiny
Core diameter	Multimode 50µm / Singlemode 9µm
Cladding diameter	125 µm
Comment	PUR, halogen free
minimal bending radius	5.8 cm
Number of fibers	4
Cable rentation	Aramid yarn
Weight	23kg/km
Overall diameter	Ø 5.8 mm