



## FIBERFOX EBC25 2CH Cable

The FIBERFOX EBC25 2CH Cable connector is an expanded beam hermaphroditic connector suited 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 2CH ordering options

Multimode product code	Description	Singlemode product code	Description
NKO2M3-FG-0-005	FIBERFOX EBC25 MM 2CH 5m OM3 Airspool	NKO2S-FG-0-005	FIBERFOX EBC25 SM 2CH 5m Airspool
NKO2M3-FG-0-010	FIBERFOX EBC25 MM 2CH 10m OM3 Airspool	NKO2S-FG-0-010	FIBERFOX EBC25 SM 2CH 10m Airspool
NKO2M3-FG-0-020	FIBERFOX EBC25 MM 2CH 20m OM3 Airspool	NKO2S-FG-0-020	FIBERFOX EBC25 SM 2CH 20m Airspool
NKO2M3-FG-0-050	FIBERFOX EBC25 MM 2CH 50m OM3 Airspool	NKO2S-FG-0-050	FIBERFOX EBC25 SM 2CH 50m Airspool
NKO2M3-FG-0-100	FIBERFOX EBC25 MM 2CH 100m OM3 Airspool	NKO2S-FG-0-100	FIBERFOX EBC25 SM 2CH 100m Airspool
NKO2M3-FG-0-150	FIBERFOX EBC25 MM 2CH 150m OM3 Airspool	NKO2S-FG-0-150	FIBERFOX EBC25 SM 2CH 150m Airspool
NKO2M3-FG-2-050	FIBERFOX EBC25 MM 2CH 50m OM3 Cablereel GT310	NKO2S-FG-2-050	FIBERFOX EBC25 SM 2CH 50m Cablereel GT310
NKO2M3-FG-2-100	FIBERFOX EBC25 MM 2CH 100m OM3 Cablereel GT310	NKO2S-FG-2-100	FIBERFOX EBC25 SM 2CH 100m Cablereel GT310
NKO2M3-FG-2-150	FIBERFOX EBC25 MM 2CH 150m OM3 Cablereel GT310	NKO2S-FG-2-150	FIBERFOX EBC25 SM 2CH 150m Cablereel GT310

<p>*Customized cable solutions with different length up on request</p>			
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## Markets & Applications

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

## Technical Information

Product	
<b>Title</b>	FIBERFOX EBC25 2CH
<b>Gender</b>	Hermaphroditic

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

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

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

Optical	
Insertion Loss Multimode	Typ. 0.7dB per Connector / Max. 1.0dB per Connector
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	5.0 cm
Number of fibers	2
Cable rentation	Aramid yarn
Weight	23kg/km
Overall diameter	Ø 5.0 mm