



## 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 order code                                            | Multimode product code | Description                                          | Singlemode order code |
|-----------------------------------------------------------------|------------------------|------------------------------------------------------|-----------------------|
| 1036250                                                         | NKO2M3-FG-0-005        | FIBERFOX EBC25<br>MM 2CH 5m OM3<br>Airspool          |                       |
| 1036252                                                         | NKO2M3-FG-0-010        | FIBERFOX EBC25<br>MM 2CH 10m OM3<br>Airspool         |                       |
| 1036256                                                         | NKO2M3-FG-0-020        | FIBERFOX EBC25<br>MM 2CH 20m OM3<br>Airspool         |                       |
| 1036262                                                         | NKO2M3-FG-0-050        | FIBERFOX EBC25<br>MM 2CH 50m OM3<br>Airspool         | 1036537               |
| 1036266                                                         | NKO2M3-FG-0-100        | FIBERFOX EBC25<br>MM 2CH 100m OM3<br>Airspool        | 1036538               |
| 1036272                                                         | NKO2M3-FG-0-150        | FIBERFOX EBC25<br>MM 2CH 150m OM3<br>Airspool        |                       |
| 1036286                                                         | NKO2M3-FG-2-050        | FIBERFOX EBC25<br>MM 2CH 50m OM3<br>Cablereel GT310  | 1036543               |
| 1036290                                                         | NKO2M3-FG-2-100        | FIBERFOX EBC25<br>MM 2CH 100m OM3<br>Cablereel GT310 | 1036544               |
| 1036292                                                         | NKO2M3-FG-2-150        | FIBERFOX EBC25<br>MM 2CH 150m OM3<br>Cablereel GT310 |                       |
| *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 EBC25 2CH |
| 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**

|                          |                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------|
| <b>Flammability</b>      | UL 94 V-0                                                                                |
| <b>Protection class</b>  | IP68 mated (15m for 24h acc. MIL-DTL-83526D Section 3.11.28)<br>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**

|                                  |                                                                                                                               |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Insertion Loss Multimode</b>  | Typ. 1.5dB per connection / Max. 2.5dB per connection                                                                         |
| <b>Return Loss Multimode</b>     | N/A                                                                                                                           |
| <b>Insertion Loss Singlemode</b> | Typ. 1.0 dB max. 2.0 dB per connection (according with IEC 61300-3-4)<br>Max. 2.5dB per connection (acc. with IEC 61300-3-34) |
| <b>Return Loss Singlemode</b>    | Typ. >32dB (according with IEC 61300-3-6)                                                                                     |
| <b>Optical connector</b>         | EBC25                                                                                                                         |
| <b>Optical wiring</b>            | ISO / IEC 11801                                                                                                               |

| Mobile cable           |                                 |
|------------------------|---------------------------------|
| Colour                 | Black, shiny                    |
| Core diameter          | Multimode 50µm / Singlemode 9µm |
| Cladding diameter      | 125 µm                          |
| Comment                | PUR                             |
| minimal bending radius | 5.0 cm                          |
| Number of fibers       | 2                               |
| Cable rentation        | Aramid yarn                     |
| Weight                 | 23kg/km                         |
| Overall diameter       | Ø 5.0 mm                        |

# Mouser Electronics

Authorized Distributor

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[NKO2M3-FG-0-002](#) [NKO2M3-FG-0-005](#) [NKO2M3-FG-0-010](#) [NKO2M3-FG-0-020](#) [NKO2M3-FG-0-025](#) [NKO2M3-FG-0-050](#) [NKO2M3-FG-0-100](#) [NKO2M3-FG-0-1000](#) [NKO2M3-FG-0-100FT](#) [NKO2M3-FG-0-10FT](#) [NKO2M3-FG-0-150](#) [NKO2M3-FG-0-200](#) [NKO2M3-FG-0-250](#) [NKO2M3-FG-0-250FT](#) [NKO2M3-FG-0-25FT](#) [NKO2M3-FG-0-500](#) [NKO2M3-FG-0-500FT](#) [NKO2M3-FG-0-50FT](#) [NKO2M3-FG-2-050](#) [NKO2M3-FG-2-100](#) [NKO2M3-FG-2-100FT](#) [NKO2M3-FG-2-150](#) [NKO2M3-FG-2-200](#) [NKO2M3-FG-2-250FT](#)