

**X-TREME**

## FIBERFOX X-TREME EBC25 2CH Cable

The FIBERFOX X-TREME EBC25 2CH 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 in custom lengths

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on 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 2CH Ordering Options

| Multimode Order Code | Multimode product code | Description                                            | Singlemode order code |
|----------------------|------------------------|--------------------------------------------------------|-----------------------|
| 1036263              | NKOX2M3-FG-0-050       | FF X-TREME EBC25<br>MM 2CH 50m OM3<br>airspool         | 1038649               |
| 1036287              | NKOX2M3-FG-3-050       | FF X-TREME EBC25<br>MM 2CH 50m OM3<br>CableReel GT380  | 1038650               |
| 1036267              | NKOX2M3-FG-0-100       | FF X-TREME EBC25<br>MM 2CH 100m OM3<br>airspool        | 1038651               |
| 1036291              | NKOX2M3-FG-3-100       | FF X-TREME EBC25<br>MM 2CH 100m OM3<br>CableReel GT380 | 1038652               |

|         |                   |                                                        |         |
|---------|-------------------|--------------------------------------------------------|---------|
| 1036273 | NKOX2M3-FG-0-150  | MM 2CH 150m OM3<br>airspool                            | 1038653 |
| 1036293 | NKOX2M3-FG-5-150  | FF X-TREME EBC25<br>MM 2CH 150m OM3<br>CableReel GT450 | 1038654 |
| 1036275 | NKOX2M3-FG-0-200  | FF X-TREME EBC25<br>MM 2CH 200m OM3<br>airspool        | 1038655 |
| 1036297 | NKOX2M3-FG-4-200  | FF X-TREME EBC25<br>MM 2CH 200m OM3<br>CableReel HT582 | 1038656 |
| 1036277 | NKOX2M3-FG-0-250  | FF X-TREME EBC25<br>MM 2CH 250m OM3<br>airspool        | 1038657 |
| 1036299 | NKOX2M3-FG-4-250  | FF X-TREME EBC25<br>MM 2CH 250m OM3<br>CableReel HT582 | 1038658 |
| 1036279 | NKOX2M3-FG-0-300  | FF X-TREME EBC25<br>MM 2CH 300m OM3<br>airspool        | 1038659 |
| 1036301 | NKOX2M3-FG-4-300  | FF X-TREME EBC25<br>MM 2CH 300m OM3<br>CableReel HT582 | 1038660 |
| 1036283 | NKOX2M3-FG-0-500  | FF X-TREME EBC25<br>MM 2CH 500m OM3<br>airspool        | 1038661 |
| 1036285 | NKOX2M3-FG-0-1000 | FF X-TREME EBC25<br>MM 2CH 1000m<br>OM3 airspool       | 1038662 |

\* 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 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**

|                   |                                                                                          |
|-------------------|------------------------------------------------------------------------------------------|
| Flammability      | UL 94 V-0                                                                                |
| Protection class  | IP68 mated (15m for 24h acc. MIL-DTL-83526D Section 3.11.28)<br>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<br>(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       | 2                 |
| Cable rentation        | Aramid yarn       |
| Weight                 | 82 kg/km          |
| Overall diameter       | 9.2 mm            |
| Outer shield           | Coated glass yarn |