

FIBERFOX EBC15 2CH Cable



The FIBERFOX 2CH Cable connector is an expanded beam hermaphroditic connector 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 connector is designed according to the MIL-DTL-83526 standard and is compatible all 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 an airspool.

Features & Benefits

- available in multimode and singlemode
- Heavy-duty, connectors IP68 (even unprotected)
- Wear-free connectors, > 10.000 mating cycles without any maintenance
- No special cleaning or measurement tools required
- Cables are prolongable direct, no couplers required
- Ø = 5mm, PUR flame-retardant, halogen-free, bent tolerant
- Ready-made up with connectors EBC1502



CABLE 2CH

| Multimode order code | Multimode product code | Description | Singlemode order code | Singlemode product code | Description |
|----------------------|------------------------|--|-----------------------|-------------------------|---|
| 1027401 | NKO2M3-FX-0-005 | FIBERFOX MM 2CH 5m OM3 airspool | | NKO2S-FX-0-005 | FIBERFOX SM 2CH 5m airspool |
| 1027402 | NKO2M3-FX-0-010 | FIBERFOX MM 2CH 10m OM3 airspool | | NKO2S-FX-0-010 | FIBERFOX SM 2CH 10m airspool |
| 1027403 | NKO2M3-FX-0-020 | FIBERFOX MM 2CH 20m OM3 airspool | | NKO2S-FX-0-020 | FIBERFOX SM 2CH 20m airspool |
| 1027404 | NKO2M3-FX-0-050 | FIBERFOX MM 2CH 50m OM3 airspool | 1037493 | NKO2S-FX-0-050 | FIBERFOX SM 2CH 50m airspool |
| 1027405 | NKO2M3-FX-0-100 | FIBERFOX MM 2CH 100m OM3 airspool | 1037494 | NKO2S-FX-0-100 | FIBERFOX SM 2CH 100m airspool |
| 1027406 | NKO2M3-FX-0-150 | FIBERFOX MM 2CH 150m OM3 airspool | | NKO2S-FX-0-150 | FIBERFOX SM 2CH 150m airspool |
| 1027408 | NKO2M3-FX-2-050 | FIBERFOX MM 2CH 50m OM3 cable reel | 1036523 | NKO2S-FX-2-050 | FIBERFOX SM 2CH 50m cable reel |

| | | | | | |
|--|-----------------|---|---------|----------------|--|
| 1027409 | NK02M3-FX-2-100 | FIBERFOX MM 2CH 100m OM3 cable reel | 1036524 | NK02S-FX-2-100 | FIBERFOX SM 2CH 100m cable reel |
| 1027410 | NK02M3-FX-2-150 | FIBERFOX MM 2CH 150m OM3 cable reel | 1038224 | NK02S-FX-2-150 | FIBERFOX SM 2CH 150m cable reel |
| *Customized Cable Solutions with different length up on request. | | | | | |

Technical Information

| Product | |
|---------|--------------------|
| Title | FIBERFOX EBC15 2CH |
| Gender | Hermaphroditic |

| Mechanical | |
|------------------------|---|
| Tensile Strength | 1'800N |
| Compressive load | 50'000N |
| Lifetime | >10000 mating cycles |
| Free fall Resistance | 500 falls onto concrete from 1.2M height |
| 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 and unmated (1m for 60 min) |
| Compatibility | MIL-DTL-83526 |
| Temperature Range | -40°C to + 70°C |

| 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. >32 dB (according with IEC 61300-3-6) |
| Optical connector | EBC |
| Optical wiring ISO / IEC 11801 | ISO / IEC 11801 |

| Mobile cable | |
|------------------------|---------------------------------|
| Colour | Black, shinny |
| 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 |