

FIBERFOX EBC15 4CH Cable



The FIBERFOX 4CH 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 fits to all other connectors with this standard.



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
- ✓ Ø = 5,5mm, PUR flame-retardant, halogen-free, bent tolerant
- ✓ Ready-made up with connectors EBC1504
- ✓ Heavy-duty, connectors IP68 (even unprotected)
- ✓ Cables are prolongable direct, no couplers required

- ✓ Wear-free connectors, > 10.000 mating cycles without any maintenance
- ✓ No special cleaning or measurement tools required



CABLE 4CH

Multimode order code	Multimode product code	Description	Singlemode order code
1027412	NKO4M3-FX-0-005	fiberFOX MM 4CH 5m OM3 airspool	
1027413	NKO4M3-FX-0-010	fiberFOX MM 4CH 10m OM3 airspool	
1027414	NKO4M3-FX-0-020	fiberFOX MM 4CH 20m OM3 airspool	
1027415	NKO4M3-FX-0-050	fiberFOX MM 4CH 50m OM3 airspool	1036527
1027416	NKO4M3-FX-0-100	fiberFOX MM 4CH 100m OM3 airspool	1036528
1027417	NKO4M3-FX-0-150	fiberFOX MM 4CH 150m OM3 airspool	
1027418	NKO4M3-FX-2-050	fiberFOX MM 4CH 50m OM3 cable reel	1036533
1027419	NKO4M3-FX-2-100	fiberFOX MM 4CH 100m OM3 cable reel	1036534
1027420	NKO4M3-FX-2-150	fiberFOX MM 4CH 150m OM3 cable reel	
*Customized Cable Solutions with different length up on request.			

Technical Information

Product	
Title	FIBERFOX EBC15 4CH
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, shiny
Core diameter	Multimode 50µm / Singlemode 9µm
Cladding diameter	125 µm
Comment	PUR
minimal bending radius	5.8 cm
Number of fibers	4
Cable rentation	Aramid yarn
Weight	23kg/km
Overal diameter	Ø 5.8 mm