

## 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
- Ready-made up with connectors EBC1504
- Cables are prolongable direct, no couplers required
- No special cleaning or measurement tools required
- $\varnothing = 5,5\text{mm}$ , PUR flame-retardant, halogen-free, bent tolerant
- Heavy-duty, connectors IP68 (even unprotected)
- Wear-free connectors, > 10.000 mating cycles without any maintenance



## CABLE 4CH

Multimode product code	Description	singlemode product code	Description
NKO4M3-FX-0-005	fiberFOX MM 4CH 5m OM3 airspool	NKO4S-FX-0-005	fiberFOX SM 4CH 5m airspool
NKO4M3-FX-0-010	fiberFOX MM 4CH 10m OM3 airspool	NKO4S-FX-0-010	fiberFOX SM 4CH 10m airspool
NKO4M3-FX-0-020	fiberFOX MM 4CH 20m OM3 airspool	NKO4S-FX-0-020	fiberFOX SM 4CH 20m airspool
NKO4M3-FX-0-050	fiberFOX MM 4CH 50m OM3 airspool	NKO4S-FX-0-050	fiberFOX SM 4CH 50m airspool
NKO4M3-FX-0-100	fiberFOX MM 4CH 100m OM3 airspool	NKO4S-FX-0-100	fiberFOX SM 4CH 100m airspool
NKO4M3-FX-0-150	fiberFOX MM 4CH 150m OM3 airspool	NKO4S-FX-0-150	fiberFOX SM 4CH 150m airspool
NKO4M3-FX-2-050	fiberFOX MM 4CH 50m OM3 cable reel	NKO4S-FX-2-050	fiberFOX SM 4CH 50m cable reel
NKO4M3-FX-2-100	fiberFOX MM 4CH 100m OM3 cable reel	NKO4S-FX-2-100	fiberFOX SM 4CH 100m cable reel
NKO4M3-FX-2-150	fiberFOX MM 4CH 150m OM3 cable reel	NKO4S-FX-2-150	fiberFOX SM 4CH 150m 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 (6m for 30 min)
Compatibility	MIL-DTL-83526
Temperature Range	-40°C to +70°C

Optical	
Insertion Loss Multimode	Typ. 0.7 dB per Connector / Max. 1.0 dB 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. >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, halogen free
minimal bending radius	5.8 cm
Number of fibers	4
Cable rentation	Aramid yarn
Weight	23kg/km
Overall diameter	Ø 5.8 mm