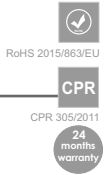


# Bitfiber® FESTOON FO 2 x 12 .../125



Crane cables

Heavy duty rubber cable for optical signal and data transmission



## Technical data:

### Thermal parameters:

**Permissible ambient temperature:**  
- transportation / storage: -40 °C / 80 °C  
- free moving / festoon application: -30 °C / 80 °C

### Mechanical parameters:

**Bending radius:** ≥ 125 mm  
**Max. continuous load in operation:** 2000 N  
**Travelling speed of motor driven festoon cable trolleys:** ≤ 300 m/min

### Chemical parameters:

**Resistance to oil:** IEC 60811-404  
**Behaviour in case of fire:** IEC 60332-1-2  
**Weather resistance:**  
unrestricted use indoors, outdoors, resistance to ozone, UV and moisture

### Regulations of the individual fiber types:

single-mode optical fiber E9/125 acc. to  
- ITU-T G.652 D - OS2<sup>1)</sup>  
- DIN EN IEC 60793-2-50 / VDE 0888-325

graded-index 62,5/125 µm multimode fiber acc. to  
- DIN EN IEC 60793-2-10 A1-OM1<sup>1)</sup>  
- IEEE 802.3 Gigabit Ethernet Standard  
- VDE 0888-321

graded-index 50/125 µm multimode fiber acc. to  
- DIN EN IEC 60793-2-10 A1-OM2 - OM4<sup>1)</sup>  
- ITU-T G.651 / VDE 0888-321

fiber colour codes acc. to ANSI/TIA/EIA 598-A

## Design:

### Optical fiber element:

E9 design: tube 1 - yellow: 12 fiber E9/125  
tube 2 - red: 12 fiber E9/125  
G62,5 design: tube 1 - blue: 12 fiber G62,5/125  
tube 2 - red: 12 fiber G62,5/125  
G50 design: tube 1 - green: 12 fiber G50/125  
tube 2 - red: 12 fiber G50/125

*combination of fiber types (e.g.: 12G50 + 12G62,5) on request*

Synthetic strain relief elements

**Jacket:** thermoplastic elastomer TPE

### Separating tapes

**Reinforcement:** braid made of high tec multifilament threads, non-hygroscopic and low shrinkage

**Outer sheath:** heavy duty rubber compound, quality 5GM5 acc. to DIN VDE 0207-21, colour: orange / black, inkjet marking,

## Application:

On festoon systems with e.g. heavy duty trolleys carry flat and round cables for transmission of electrical energy and optic signals. Travelling speed of motor driven festoon cable trolleys: ≤ 300 m/min.

Fiber type	Outer diameter min. - max. [mm]	Approximate cable weight [kg/km]
2x12 E9/125	10 - 12	120
2x12 G50/125		
2x12 G62,5/125		

<sup>1)</sup> contain standard values or values at delivery. Attenuation values in the finished cable deviate  
Cable Factory BITNER reserves the right to modify specifications without prior notification.