

# Bitfiber® FESTOON PUR FO 2 x 12 .../125

RoHS 2015/863/EU

CPR

CPR 305/2011

24 months warranty

Heavy duty PUR sheathed cable for optical signal and data transmission



Industrial application



external application



UV resistance



telecommunication cable



high flexibility



EN 60332-1-2



oil resistant EN 60811-404

## 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:  $\geq 10 \times \text{cable-}\varnothing$

Max. continuous load in operation: 1000 N

Travelling speed of motor driven festoon cable trolleys:  $\leq 240 \text{ m/min}$

### 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>\*)</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>\*)</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>\*)</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: thermoplastic elastomer PUR reinforced with dielectric yarns, halogen-free; colour: black matt, inkjet marking

## Application:

On festoon systems with e.g. heavy duty trolleys carry flat and round cables for transmission of electrical energy and optical signals. Travelling speed of motor driven festoon cable trolleys:  $\leq 240 \text{ m/min}$ .

Fiber type	Outer diameter min. - max. [mm]	Approximate cable weight [kg/km]
2x12 E9/125	13 - 15	190
2x12 G50/125		
2x12 G62,5/125		

<sup>\*)</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.