

BITNER[®] CRANE FO 2 x 12 .../125

RoHS 2015/863/EU

CPR

CPR 305/2011

24 months warranty

Crane cables

Heavy duty rubber sheathed 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:** ≥250 mm
- Max. continuous load in operation:** 2000 N
- Reeling speed:** ≤120 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 - OS2¹⁾
- 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-OM1¹⁾
- 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 - OM4¹⁾
- 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, type 5GM5 acc. to DIN VDE 0207-21, colour: black, inkjet marking

Application:

On reeling systems for long distance communication network (LDN) e.g. optical PROFIBUS networks with special application requirements on mobile material handling equipment, small motor driven reels and spring driven reels.

Fiber type	Outer diameter min. - max. [mm]	Approximate cable weight [kg/km]
2x12 E9/125	14 - 16	220
2x12 G50/125		
2x12 G62,5/125		

¹⁾ 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.