

# Reeling fibre optic cable

## BiTfiber® CRANE



**Application:** Flexible fibre optic cable for signal and data transmission in crane and conveyor systems with high drum speeds and tensile loads. The cables can be manufactured with singlemode E9/125 and multimode 50/125 or 62.5/125 fibers for specific projects. We also offer customer-specific cables with matching ST plugs or pigtails.

### Standards:

- single-mode optical fiber E9/125 acc. to
  - ITU-T G.652 D - OS2
  - 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
  - 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
  - ITU-T G.651
  - VDE 0888-321

### Construction and technical data:

<b>Standard:</b>	DIN VDE 0888, DIN VDE 0207-21
<b>Self-supporting element:</b>	synthetic fibre
<b>Sheathing material:</b>	rubber 5GM5
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-332-1-2/IEC 60332-1-2
<b>Oil-resistant:</b>	EN 60811-404
<b>Permitted outer cable temperature, fixed, °C:</b>	-40 - +80 °C
<b>Permitted outer cable temperature, moved, °C:</b>	-30 - +80 °C
<b>Operating speed random, m/min.:</b>	120 m/min.



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

part no.	part name	Number of fibres [n]	Rbb [mm]	Ø [mm]	Fzd [N]	G [kg]	
073494	2X12E9/125	24	250	16	2000	220	singlemode/multimode
073495	2X12G50/125	24	250	16	2000	220	singlemode/multimode
073496	2X12G62,5/125	24	250	16	2000	220	singlemode/multimode

Number of fibres	Number of fibres
Rbb	Bending radius, moving application
Ø	outer diameter approx.
Fzd	Tensile strength (dynamic)
G	net weight per 1000