External cables

BiTfiber Z-XOTKtmsd 2-144 fibers

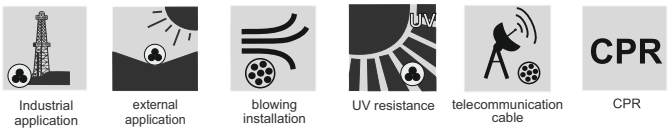
RoHS 2011/65/EU

CPR

CPR 305/2011

2 years guarantee

Multi-tube optotelecommunication microcable with small outside diameter for external applications



Industrial application | external application | blowing installation | UV resistance | telecommunication cable | CPR

Cable equivalent acc. to VDE: A-DQ2Y Microcable

Technical Data:

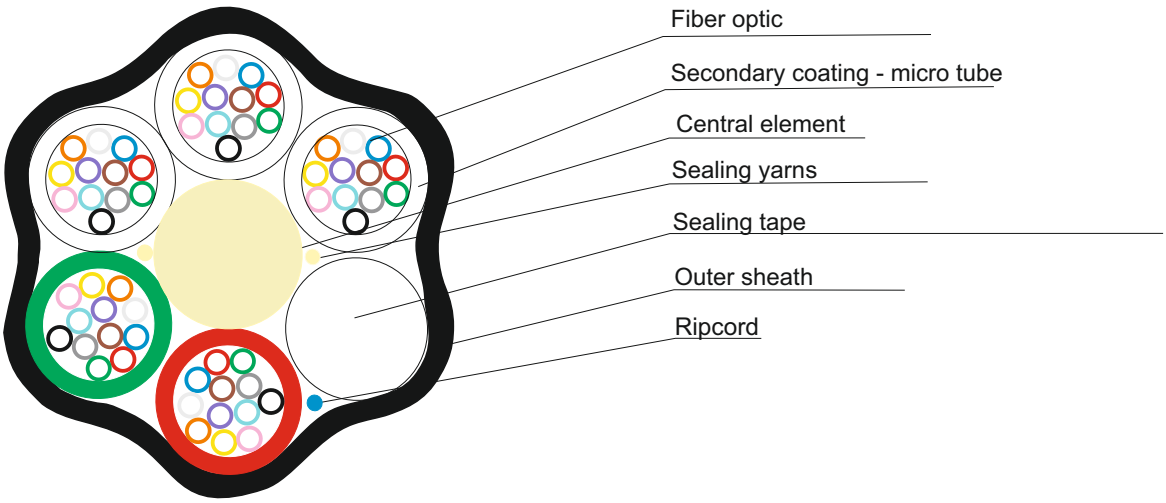
Optotelecommunication cable – **OTK**
external – **Z**
polyethylene outer sheath - Xmicrotube – **tm**
With dry centre sealing - **s**
Entirely dielectric – **d**

Application:

Fibre optic cable cable intended for use in cable microcanalization for the implementation of backbone networks and FTTH connections (Fiber To The Home). Suitable for blowing installation.

Construction:

Fiber optic: Optical telecommunication fiber in accordance with ITU-T-G652D or customer requirements (confirmed in the fiber specification)
Secondary coating: micro tube made of PBT
Central strength element: dielectric FRP
Fiber colours acc. to PN-IEC 60304: red, green, blue, white, violet, orange, grey, yellow, brown, pink, black, turquoise
Tube colours acc. to PN-IEC 60304: red, green, blue, white, violet, orange, grey, yellow, brown, pink, black, turquoise
Optional: red, green and others in natural colour
Filling pads: if used inside cable – black or natural.
Outer sheath colour (HDPE): black



BITNER®

BiTfiber Z-XOTKtmsd 2-144 fibers

Multi-tube optotelecommunication microcable with small outside diameter for external applications

Optical parameters:

Description	Unit	Value
Attenuation at 1310 nm	dB/km	≤ 0,35 (max 0,4)
Attenuation at 1550 nm	dB/km	≤ 0,22 (max 0,25)
Attenuation at 1625 nm	dB/km	≤ 0,35 (max 0,4)
Additional properties enclosed in fiber specification		

Physical parameters:

Description	Unit	Value		
Secondary coating diameter - tube	mm	1,45		
Core construction		6x1,45	8x1,45	12x1,45
Central strength element	mm	1,6	2,4	4,2
Outer jacket thickness	mm	5,6	6,5	8,6
Nominal outer diameter	mm	min. 0,4 mm; rated 0,6 mm		
Cable weight	kg/km	26	38	58

Basic mechanical properties:

Description	Method	Unit	Value		
Tensile strength	dynamic	N	500	1000	1200
	static		250	400	500
Min. Bending radius	dynamic	mm	90	100	130
	static		110	130	170

Dodatkowe parametry mechaniczne:

Parameter	Method	Value	Criteria of positive test
Crush resistance	PN-EN 60794-1-2-E3	500 N; t=1 min	Change in fiber attenuation ≤0,1 dB @1550 nm (SMF); ≤0,2dB @1300 nm (MMF); without any sheath damages
Impact resistance	PN-EN 60794-1-2-E4	1,6 Nm; 3 strikes	
Multiple bending resistance	PN-EN 60794-1-2-E6	R=15xØ of cable; F=20N 100 cycles, 90°, 15cycles/min	
Torsion resistance	PN-EN 60794-1-2-E7	20N, 5 cycles, 360°	

Temperature parameters:

Temperature range	Operation	-40/+70C°
	Installation	-15/+60°C
	Transport and storage	-30/+70°C

Standard marking:

OPTIC CABLE BITNER BiTfiber Z-XOTKtmsd *(number and type of fibers)* *year of production* *meter marking*

Packaging:

Wooden drums