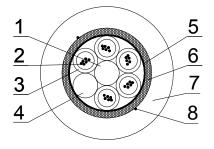
# Fiber Optic Cable Z-XOTKtsdDb 2-144 Fibres

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Type: non-metallic, duct, reinforced, rodent protected



Cross section of 5x6 FO cable





### **Cable construction:**

- 1. Central element non-metallic
- 2. Optical fibres
- 3. Loose tube
- 4. Filler
- 5. Waterblocking tape
- Reinforcement (glass yarn)
   Outer sheath
- Outer shea
   Ripcord

CONSTRUCTION					
Element	Туре	Material	Dimension		
Fibres	ITU-T G.652D or according to the attached specifications				
Identification of fibers	Comply to IEC 60304: Red; Green, Blue, White, Violet, Orange, Grey, Yellow, Brown, Pink, Black Turquoise				
Identification of tubes/ elements	First tube - red, second tube - blue, other tube - natural, filler (when needed) - black				
Central support member	Straight rod	Fibre Reinforced Plastic	φ 1.8mm, 2.5mm or 3.0mm		
PE oversheath on central support member	Black	HDPE	<ul> <li>φ 5.3mm for 12 elements cable</li> <li>φ 3.5mm for 9+15 elements cable</li> </ul>		
Secondary coating	loose tube - thermoplastic material, containing 2-12 fibres	РВТ	φ 1.8 mm (approx.)		
Filling of the tube	gel	Thixotropic gel			
Interstitial waterblocking	Dry sealed	Swelling tape	thickness: 0.15mm (approx.)		
Reinforcement	Dielectric yarn	Glass yarns			
Outer sheath	Black	HDPE	thickness: minimum spot average	1.3mm 1.5mm	
Attenuation @1310nm	≤ 0.40 dB/km *)				
Attenuation @1550nm	≤ 0.25 dB/km *)				
Marking/Printing:	FIBRE OPTIC CABLE Z-XOTKtsdDb 24J TF Kable 1 year of production				
Standard delivery lengths	$4200 \pm 100$ m; to be agreed				

\*) Max attenuation for SMF in cable - other parameters of the fiber according to the attached specifications

PARAMETERS								
No. of	Outer	No. of	Cable dimensions		Mechanical properties			
fibres in a	diameter of	elements in a cable (tubes/filers)	Outer	Cable	Max. tensile load		Min. bending radius	
cable	tube		diameter	weigth	[N]		[mm]	
	[mm]		[mm]	[kg/km]	Dynamic (during instalation)	Static (during the operation)	Dynamic (during instalation)	Static (during the operation)
Up to 72	1.8	6	9.5 ± 0.2	75	2700	1350	15 x OD	20 x OD
Up to 96	1.8	8	10.6 ± 0.2	100	3000	1500	15 x OD	20 x OD
Up to 144	1.8	12	12.9 ± 0.2	140	4000	2000	15 x OD	20 x OD

REACTION TO FIRE		
CPR - class reaction to fire (acc EN 50575)	Fca	

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## Fiber Optic Cable Z-XOTKtsdDb 2-144 Fibres

TKable

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ADDITIONAL MECHANICAL PROPERTIES				
Test	Standard	Value	Acceptance criteria	
Crush	IEC 60794-1-2-E3	1500 N; t =15 min	Δα ≤ 0.05 dB, no damage	
Impact	IEC 60794-1-2-E4	5 Nm, 3 impacts	$\Delta \alpha \le 0.05 \text{ dB}$ after the test	
Repeated bending	IEC 60794-1-2-E6	R=20×D; F=100 N 100 cycles, 90 °, 15 cycles/min	$\Delta \alpha \leq 0.1 \text{ dB}$ , no damage	
Torsion	IEC 60794-1-2-E7	100 N, 5 cycles, 360	$\Delta \alpha \leq 0.05 \text{ dB}$ , no damage	

ENVIRONMENTAL SPECIFICATIONS				
Water penetration	IEC 60794-1-2-F5B	Sample 1m, water head 1m, 24 hours		
Temperature range		- transport/storage -40/+70 °C		
		- installation -15/+60 °C		
		- operation -40/+70 °C		

### FEATURES

- fully dielectric
- resistant to electromagnetic interferences
- resistant to longitudinal water penetration
- can be installed in the proximity to electric installation
- easy to install

#### APPLICATIONS

Cables are designated for transmission of digital and analogue signals within the whole optical bandwidth. They are prepared for making fast connection between optoelectronics devices, laying in cable ducts, use in places with high risk of rodents attack.

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