

Fiber Optic Cable

Z-XOTKtsdDb 1x4-8x12 Fibres tube 2,1

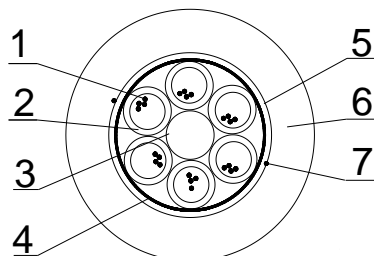


IEC 60793 and IEC 60794

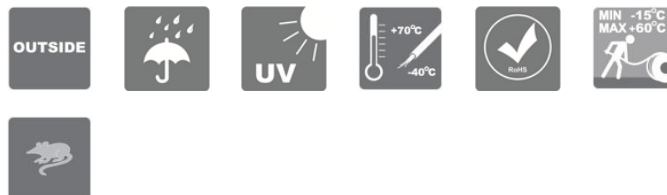
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Type: non-metallic, duct, reinforced,



Cross section of 6x4 FO cable



Cable construction:

1. Optical fibres
2. Loose tube
3. Central element non-metallic
4. Dry seal
5. Reinforcement
6. Outer sheath
7. Rip-cord

CONSTRUCTION			
Element	Type	Material	Dimension
Fibres	ITU-T G.652D or according to the attached specifications		
Identification of fibers	Red , Green, Yellow, Blue, Brown, White, Violet, Black, Grey, Orange, Turquoise, Pink,		
Identification of tubes	Tubes: Red , Green, Yellow, Blue, Brown, White, Violet, Black, Filler : black (when needed)		
Central support member	Straight rod,	Fibre Reinforced Plastic	φ 2,3 or 2,5 mm
PE overshooth on central support member	Black	HDPE	φ 3,5 mm for 8 elements cable
Secondary coating	loose tube - thermoplastic material, containing 4, 6, 8 or 12 fibres,	PBT	φ 2,1 mm (approx.)
Filling of the tube	gel	Thixotropic gel	
Interstitial waterblocking	Dry sealed	Swelling tape or yarns	thickness: 0,20mm (approx.)
Reinforcement	Dielectric yarn	Glass yarns	35 g/m
Outer sheath	Black	extruded HDPE polymer density ≥ 0,945 g/cm ³ with 2 pcs of ripcords	thickness: minimum spot 1,5mm average 1,7mm
Attenuation @1310nm	≤ 0,4 dB/km *)		
Attenuation @1550nm	≤ 0,25 dB/km *)		
Marking/Printing:	MÁV ZRT << year of production >> << TF Kable1 >> << Z-XOTKtsdDb Fve number of tubs x number of fibers BR SM LWP >> <<ID>> << length marking >> m << CE >>		
Standard delivery lengths	4200 ± 100 m; to be agreed		

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

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PARAMETERS

No. of fibres in a cable	Outer diameter of tube [mm]	No. of elements in a cable (tubes/filers)	Cable dimensions		Mechanical properties			
			Outer diameter [mm]	Cable weight [kg/km]	Max. tensile load [N]		Min. bending radius [mm]	
					Dynamic (during instalation)	Static (during the operation)	Dynamic (during instalation)	Static (during the operation)
Up to 72	2,1	6	11,5 ± 0,2	115	4000	2000	175	230
Up to 96	2,1	8	12,7 ± 0,2	145	4000	2000	190	250

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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