Fiber Optic Cable

Z-XOTKtsdDb 2-288 Fibres

Spec. No. 2492/2/0

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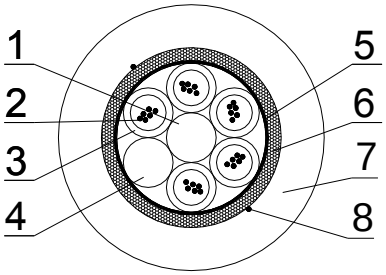
Type: non-metallic, duct, reinforced, rodent protected



Cross section of 5x6 FO cable

Cable construction:

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

CONSTRUCTION				
Element	Type	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 **6 to 12 elements** **Above 12 - elements - two layers** **18 elements (6+12)** **24 elements (9+15)**	First tube - red, second tube - blue, other tube - natural, filler (when needed) - black for each of the layers of colors as above			
Central support member	Straight rod,	Fibre Reinforced Plastic	ϕ 1,8 or 2,5 mm	
PE oversheath on central support member	Black	HDPE	ϕ 3,0 mm for 8 elements cable ϕ 5,3 mm for 12 elements cable ϕ 3,5 mm for 9+15 elements cable	
Secondary coating	loose tube - thermoplastic material, containing 2, 4, 6 or 12 fibres,	PBT	ϕ 1,8 mm (approx.)	
Filling of the tube	gel	Thixotropic gel		
Interstitial waterblocking	Dry sealed	Swelling tape	thickness: 0,20mm (approx.)	
Reinforcement	Dielectric yarn	Glass yarns		
Outer sheath	Black	extruded HDPE polymer density ≥ 0,945 g/cm^3	thickness: minimum spot average	1,3mm 1,5mm
Attenuation @1310nm	≤ 0,4 dB/km *)			
Attenuation @1550nm	≤ 0,25 dB/km *)			
Marking/Printing:	**FIBRE OPTIC CABLE Z-XOTKtsdDb 24J TF Kable 1 2012** (or according to the agreement). Length marking every metre			
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 weigth [kg/km]	Max. tensile load [N]		Min. bending radius [mm]	
					Dynamic (during instalation)	Static (during the operation)	Dynamic (during instalation)	Static (during the operation)
4 - 72	1,8	6	9,5	75	2700	1350	145	190
28 - 96	1,8	8	10,6	100	3000	1500	160	215
36 - 144	1,8	12	12,9	140	4000	2000	195	260
52 - 216	1,8	18	13,6	160	4000	2000	205	270
76 - 288	1,8	24	15,3	180	4000	2000	230	310

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.