

Z-XOTKtmsd 2 - 288 Optical Fibers

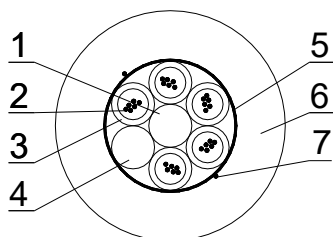
EN 60794-5

Spec. No. 2289/4/0 MB

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Type: micro-cable, outdoor, fully dielectric



Cable construction:

1. Central element, non-metallic
2. Optical fibres
3. Loose tube
4. Filler
5. Dry seal
6. Outer sheath
7. Ripcord

CONSTRUCTION			
Element	Type	Material	Dimensions
Fibres	ITU-T G.652D , ITU-T G.657A or according to the attached specifications		
Identification of fibres	red, blue, white, green, 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)	red, blue, white, green, violet, orange, grey, yellow, brown, pink, black, turquoise filler (when needed) – white or natural If the layer has more than 12 tubes, the tube 13 and next are natural in colour.		
Central support member	straight rod	Fibre Reinforced Plastic	φ 1.6mm, 2.5mm or 3.0mm
PE oversheath on the central support member	black	HDPE	φ 4.4 mm for 12-element cable
Secondary coating	loose tube - thermoplastic material 2-12 fibres	PBT	φ 1.5 mm (approx.)
Filling of the tube	gel	tixotropic gel	
Interstitial waterblocking	dry sealed	swelling yarns	
Outer sheath	black	extruded HDPE polymer density ≥ 0.945 g/cm ³	thickness: minimum spot average
Attenuation @1310 nm	≤ 0.4 dB/km *)		
Attenuation @1550 nm	≤ 0.25 dB/km *)		
Marking/Printing:	FIBRE OPTIC CABLE Z-XOTKtmsd 24J TF Kable 1 year of production (or according to the agreement). Length marking every metre.		
Standard delivery lengths	2100; 4200 ±50 m on wooden drums		

*) Max attenuation for SMF in cable - other parameters of the fibre 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/fibers)	Cable dimensions		Mechanical properties			
			Outer diameter [mm]	Cable weight [kg/km]	Max. tensile load [N]		Min. bending radius [mm]	
					Dynamic (during installation)	Static (during the operation)	Dynamic (during installation)	Static (during the operation)
2 - 72	1.5	6	5.7	27	700	220	90	115
74 - 96	1.5	8	6.6	40	1200	250	100	130
98 - 144	1.5	12	8.7	60	1500	300	130	170
146 - 216	1.5	18 (6+12)	9.0	70	700	220	135	180
218 - 288	1.5	24 (9+15)	10.5	90	1200	250	160	210

ADDITIONAL MECHANICAL PROPERTIES

Test	Standard	Value	Acceptance criteria
Crush	IEC 60794-1-2-E3	600 N; t =15 min	$\Delta\alpha \leq 0.05$ dB, no damage
Impact	IEC 60794-1-2-E4	1.6 Nm, 3 impacts	$\Delta\alpha \leq 0.05$ dB after the test
Repeated bending	IEC 60794-1-2-E6	R=20xD; F=100 N 100 cycles, 90 °, 15 cycles/min	$\Delta\alpha \leq 0.1$ dB, no damage
Torsion	IEC 60794-1-2-E7	100 N, 5 cycles, 360	$\Delta\alpha \leq 0.05$ dB, no damage

ENVIRONMENTAL SPECIFICATIONS

Water penetration	IEC 60794-1-2-F5B	sample 1 m, water head 1 m, 24 hours
Temperature range		- transport/storage -40/+70 °C - installation -15/+60 °C - operation -30/+70 °C

FEATURES

- large number of fibres in relation to the dimensions
- fully dielectric
- resistant to electromagnetic interferences
- secured from longitudinal water penetration
- resistant to abrasion, UV and stress corrosion

APPLICATIONS

For local access networks (like FTTH systems) in any spatial configuration, designed for use in microducts and installation by blowing at distances up to 2000 m.

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