

# Z-XOTKtmsd 2 - 288 Optical Fibers

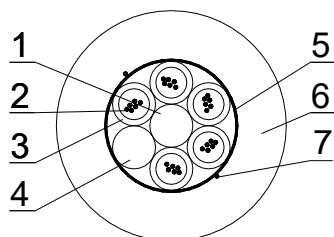
EN 60794-5

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 <sup>3</sup>	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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