Fiber Optic Cable

A-DQ(ZN)B2Y 2-288 Fibres tube 1,8

VDE 0888-3

Spec. No. TT1-2309/3/0

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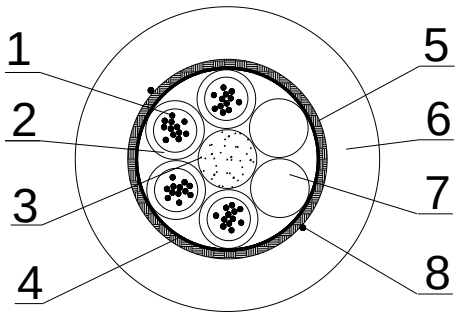
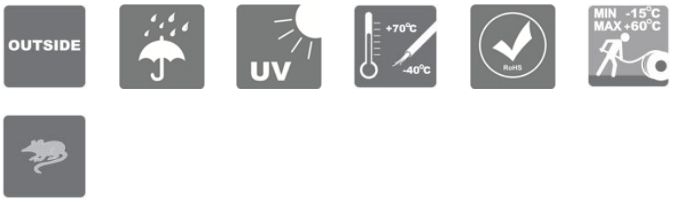
Type: non-metallic, duct, reinforced, rodent protect



Cross section of 4x12 FO cable



Cable construction:

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

CONSTRUCTION				
Element	**Type**	**Material**	**Dimension**	
Fibres	ITU-T G.652D , ITU-T G.657A or according to the attached specifications			
Identification of fibers	Comply to VDE 0888: Red; Green; Blue; Yellow; White; Grey; Brown; Violet; Turquoise; Black; Orange; Pink			
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 - green, other tube - yellow for E9/125 Fibres; green for G50/125 Fibres; blue for G62,5/125 Fibres, 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 / rodent protect	Dielectric yarn	Glass yarns		
Outer sheath	Black	extruded HDPE polymer density ≥ 0,945 g/cm^3	thickness: minimum spot average	1,6mm 2,0mm
Attenuation @1310nm	≤ 0,4 dB/km *)			
Attenuation @1550nm	≤ 0,25 dB/km *)			
Marking/Printing:	**Fibre Optic Cable A-DQ(ZN)B2Y** *nxm fibres type* **TF Kable1** *year of production* *length marking* (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	10,5	95	2700	1350	160	210
74 - 96	1,8	8	11,6	115	2700	1350	175	230
98 - 144	1,8	12	14,0	165	2700	1350	210	280
146 - 216	1,8	18 (6+12)	14,2	180	2700	1350	215	290
218 - 288	1,8	24 (9+15)	15,9	220	2700	1350	240	320

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

Cable is designated for transmission of digital and analogue signals within the whole optical bandwidth used in long distance, wide and local telecom networks of any spatial configuration. Suitable for use in primary and secondary cable ducts or in the proximity to HV lines. 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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