

Fiber Optic Cable

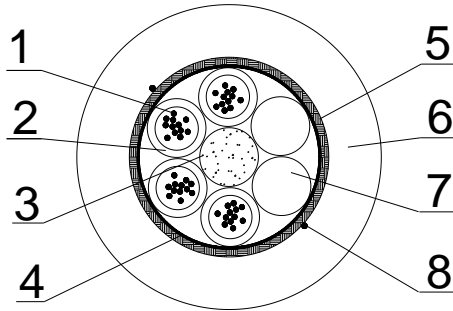
A-DQ(ZN)B2Y 2-144 Fibres tube 1.8

VDE 0888-3

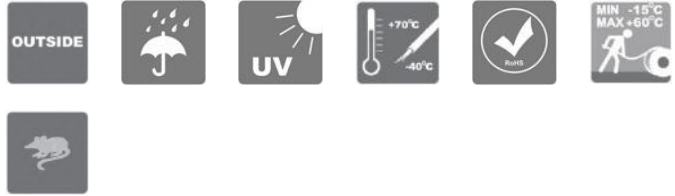
Spec. No. TT1-3105/3/0 MB

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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 0888-3: Red; Green; Blue; Yellow; White; Grey; Brown; Violet; Turquoise; Black; Orange; Pink		
Identification of tubes/ elements 6 to 12 elements	Comply to VDE 0888-3: First tube - red, other tube - yellow for E9/125 Fibres; green for G50/125 Fibres; blue for G62.5/125 Fibres, filler (when needed) - black		
Central support member	Straight rod	Fibre Reinforced Plastic	φ 1.8 or 2.5 or 3.0 mm
PE oversheath on central support member	Black	HDPE	φ 5.3 mm for 12 elements cable
Secondary coating	loose tube - thermoplastic material, containing 2-12 fibres	PBT	φ 1.8 mm (approx.)
Filling of the tube	gel	Thixotropic gel	
Interstitial waterblocking	Dry sealed	Swelling tape	thickness: 0.15mm (approx.)
Reinforcement / rodent protect	Dielectric yarn	Glass yarns	
Outer sheath	Black	extruded HDPE polymer density ≥ 0.945 g/cm ³	thickness: minimum spot average 1.3mm 1.5mm
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

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 installation)	Static (during the operation)	Dynamic (during installation)	Static (during the operation)
2 - 72	1.8	6	10.0	95	5000	2500	15 x OD	20 x OD
74 - 96	1.8	8	11.2	115	5000	2500	15 x OD	20 x OD
98 - 144	1.8	12	13.5	155	5000	2500	15 x OD	20 x OD

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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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