

A-DQ(ZN)B2Y 2-24 Optical Fibre

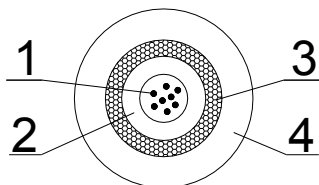
Based on VDE 0888-3 ; IEC 60794-1

Spec. No. 2252/5/0 MB

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



Cross section of 8 FO cable



Cable construction:

1. Optical fibres
2. Central tube
3. Reinforcement – glass yarn
4. Outer sheath

CONSTRUCTION			
Element	Type	Material	Dimensions
Fibres	ITU-T G.652D or according to the attached specifications		
Identification of fibres	1-12 fibers : Red; Green, Blue, Yellow, White, Grey, Brown, Violet, Turquoise, Black, Orange, Pink, More than 12 fibres: single or double stripes		
Secondary coating	central tube - thermoplastic material 2 - 24 fibres	PBT	φ 3.5 mm (approx.)
Central tube colour	yellow for E9/125 Fibres; green for G50/125 Fibres; blue for G62.5/125 Fibres		
Filling of the tube	gel	tixotropic gel	
Supporting elements/reinforcement	dielectric	Water blocking glass yarns	
Outer sheath	black	extruded HDPE polymer density ≥ 0.945 g/cm ³	thickness: minimum spot 1.2 mm average 1.3 mm
Ripcord(s)	under the outer sheath		
Attenuation @1310 nm	≤ 0.4 dB/km *)		
Attenuation @1550 nm	≤ 0.25 dB/km *)		
Marking/Printing:	Fibre Optic Cable A-DQ(ZN)B2Y number & type of fibres TF Kable 1 year of production length marking (or according to the agreement). Length marking every metre.		
Standard delivery lengths	2000 ± 100 m; to be agreed		

*) Max attenuation for SMF in cable - other parameters of the fibers according to the attached specifications

PARAMETERS							
No. of fibres in a cable	Outer diameter of tube	Cable dimensions		Mechanical properties			
		Outer diameter	Cable weight	Max. tensile load [N]		Min. bending radius [mm]	
	[mm]	[mm]	[kg/km]	Dynamic (during installation)	Static (during the operation)	Dynamic (during installation)	Static (during the operation)
2 - 24	3.5	7.8	55	1500	750	120	160

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ADDITIONAL MECHANICAL PROPERTIES

Test	Standard	Value	Acceptance criteria
Crush	IEC 60794-1-2-E3	1000 N; t =15 min	$\Delta\alpha \leq 0.05$ dB @1550 N, no damage
Impact	IEC 60794-1-2-E4	2.5 Nm, 3 impacts	$\Delta\alpha \leq 0.05$ dB @1550 N, after the test
Repeated bending	IEC 60794-1-2-E6	R=20xD; F=100N 100 cycles, 90 °, 15 cycles/min	$\Delta\alpha \leq 0.1$ dB @1550 N, no damage
Torsion	IEC 60794-1-2-E7	100N, 5 cycles, 360 °	$\Delta\alpha \leq 0.05$ dB @1550 N, no damage

ENVIRONMENTAL SPECIFICATIONS

Water penetration	IEC 60794-1-2-F5B	Sample 1 m, water head 1 m, 24 hours	
Temperature range		- transport/storage	-25/+70 °C
		- installation	-15/+55 °C
		- operation	-25/+60 °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

The outer sheath is made of high-density polyethylene. The marking and the metric overprint are printed on the outer sheath. Cable marking can be tailored to customer requirements.

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, installation in cable ducts, use in places with high risk of rodents attack.

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