

TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	A-DQ(ZN)2Y (1-8)x12/A-DQ(ZN)4Y (1-8)x12-10139		
Standards	IEC 60793, IEC 60794		
<p>Cable construction</p> <ol style="list-style-type: none"> 1. Outer sheath: UV-resistant PE/PA 2. Optical loose tube: PBT Tube 3. Intramodule compound: Thixotropic compound 4. Optical Fiber: 200 μm Single-mode Fiber according to ITU-T G.652.D/G.657.A1 5. Central strength element: Glass reinforced plastic FRP-E 6. Rip-cord: Water-swellable yarn 7. Water-blocking element of core: Water-swellable yarn 8. Core filler: PE 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20 to +60 °C	from -10 to +50 °C	from -20 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35° C, %	98		
Outer diameter, mm	4,4 \pm 0,2		
Average weight of 1 km of the cable, kg	22 \pm 5%		

Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	1,4
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle $\pm 360^\circ$ on 4 m length cable	Resistant
Resistance to bends at angle $\pm 90^\circ$ with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact, J	2

¹ Tensile strength value is for maximum number of fibers design

Packaging and marking

Cable factory length, km	6,0
Package	Drum №8 (800x620x800)
Tolerance, %	+ 3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking	±0,5%

Coloring

Coloring of fibers in loose tube (According to Customer's requirements color can be different).

1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink

Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is natural.

1	2	3	4	5	6	7	8
red	green	blue	yellow	white	slate	brown	violet

Cable sheath coloring

Sheath material	PE	PA
Color	black	orange

Product data

Fiber count	12	24	36	48	72	96
Loose tubes x fibers	1x12	2x12	3x12	4x12	6x12	8x12