

PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	A-DQ(ZN)2Y-(1-6)x24/A-DQ(ZN)4Y-(1-6)x24-1067		
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: Single-mode Fiber¹ 5. Rip-cord: Water-swellaable yarn 6. Central strength element: Glass reinforced plastic FRP-E 7. Water-blocking element of core: Water-swellaable yarn 8. Core filler: PE 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -15 to +70 °C	from -40 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 ^o C, %	98		
Outer diameter, mm	7,8±0,2		
Average weight of 1 km of the cable, kg	49±5%		

Mechanical characteristics

Calculated tensile strength, not less than ² , kN	
Dynamic	1,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,12 (1200)
Resistance to axial torsion at angle ±360° on 1 m length cable	Resistant
Resistance to bends at angle ± 90 ^o with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 5 J	Resistant

¹ Can be used:

- 250 μm Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1
 - 200 μm Single-mode Fiber according to ITU-T G.652.D/G.657.A1

² Tensile strength value is for maximum number of fibers design

Packaging and marking

Cable factory length, km	6
Package	Drum №12a (1200x855x1200)
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). M-fiber with black ring mark.											
1	2	3	4	5	6	7	8	9	10	11	12
red	green	blue	yellow	white	slate	brown	violet	aqua	black	orange	pink
13	14	15	16	17	18	19	20	21	22	23	24
red+m	green+m	blue+m	yellow+m	white+m	slate+m	brown+m	violet+m	aqua+m	transparent	orange+m	pink+m

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
red	green	blue	yellow	white	slate

Cable sheath coloring		
Sheath material	PE	PA
Color	black	orange

Product data

Fiber count	24	48	72	96	144
Loose tubes x fibers	1x24	2x24	3x24	4x24	6x24