

PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	A-DQ(ZN)4Y-(16-17)x12-200-652D/657A1-1098		
Cable construction <ol style="list-style-type: none"> 1. Outer sheath: PA 2. Optical loose tube: 1,2 mm PBT Tube 3. Intramodule compound: Thixotropic compound 4. Optical Fiber: 200 mkm Single-mode Fiber according to ITU-T G.652.D and G.657.A1 5. Central strength element: Glass reinforced plastic 1,0 mm FRP-E 6. Water-blocking element of core: Water-swellaable yarn 7. Rip-cord: Water-swellaable yarn 8. Core filler: PE 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20 to +70 °C	from -15 to +50 °C	from -20 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35° C, %	98		
Outer diameter, mm	6,5±0,2		
Average weight of 1 km of the cable, kg	41±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	0,5
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle ±360° on 2 m length cable	Resistant
Resistance to bends at angle ± 90° with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 5 J	Resistant

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №10 (1001x655x1001)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

4. 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.

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

5. Product data

Fiber count	192	204
Loose tubes x fibers	16x12	17x12