

PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	U-DQ(ZN)BH-(2-12)-250-652D/657A1-6212a		
<p>Cable construction</p> <ol style="list-style-type: none"> 1. Outer sheath: UV-resistant LSZH 2. Water-blocking element of core: Water-swellaable glass yarns 3. Optical loose tube: 2,6 mm PBT Tube 4. Intramodule compound: Thixotropic compound 5. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D and G.657.A1 6. Rip-cord: Synthetic yarn 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -25 to +70 °C	from -5 to +50 °C	from -25 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 ^o C, %	98		
Outer diameter, mm	6,3±0,2		
Average weight of 1 km of the cable, kg	46±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN Dynamic	1,75
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,3 (3000)
Resistance to axial torsion at angle ±360° on 4 m length cable	Resistant
Resistance to bends at angle ± 90 ^o with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 10 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

5. Product data

Fiber count	2	4	6	8	12
Loose tubes x fibers	1x2	1x4	1x6	1x8	1x12

6. Fire characteristics

Fire resistance: Category A (IEC 60332)