

TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type

A-DQ(ZN)4Y 24x12-G.652.D/G.657.A1-200-10102

Cable construction

1. Outer sheath: PA

2. Optical loose tube: 1,2mm 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. Rip-cord: Water-swellable yarn

6. Central strength element: Glass reinforced plastic 2,3mm FRP-E

7. Water-blocking element of core: Water-swellable yarn

Temperature ranges	Storage and transportation	Installation	Operating				
	temperature	temperature	temperature				
	from -40 to +70 °C	from -10 to +50 °C	from -20 to +70 °C				
Resistance to water	Water resistant						
penetration							
Relative humidity at +35° C, %	98						
Outer diameter, mm	7,9±0,2						
Average weight of 1 km of the	61±5%						
cable, kg							

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	2
Dynamic	2
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 $\pm 90^{\circ}$ with a radius equal to 20 nominal	Resistant
cable diameters	
Resistance to impact 5 J	Resistant

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 $^{^{\}rm 1}$ Tensile strength value is for maximum number of fibers design



3. Packaging and marking

Cable factory length, km	6		
Package	Drum №12a (1221x855x1221)		
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. "+m"- denotes single black stripe marking via co-extrusion, white stripe marking for black loose tube. Layer 1 Layer 2 2 5 7 9 2 3 1 3 4 6 8 1 slate blue blue yellow white violet green red green brown aqua red Layer 2 5 7 8 9 10 15 4 6 11 12 13 14 yellow white slate brown violet aqua black orange pink <u>red+m</u> green+m blue+m

5. Product data

Fiber count	192	216	288
Loose tubes x fibers	16x12	18x12	24x12