PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE
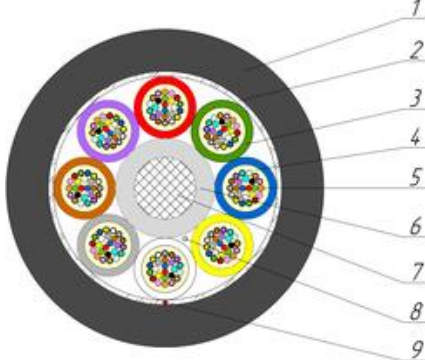
1. Cable construction

Cable type	A-DQ(ZN)B2Y-8x24-250-652D-6320

Cable construction
1. Outer sheath: UV-resistant PE
2. Peripheral water-blocking strength element: Water swellable glass yarn
3. Optical loose tube: 2,5mm PBT Tube
4. Intramodule compound: Thixotropic compound
5. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D
6. Insulation of central strength element: PE
7. Central strength element: Glass reinforced plastic 2,5mm FRP-E with insulation up to 4,0mm
8. Water-blocking element of core: Water-swellable yarn
9. Rip-cord: Water-swellable yarn

Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -40 to +70 °C	from -10 to +50 °C	from -30 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35^0 C, %	98		
Outer diameter, mm	12,8±0,2		
Average weight of 1 km of the cable, kg	124±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than[1], kN Dynamic	4
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,15 (1500)
Resistance to axial torsion at angle ±360° on 4 m length cable	Resistant
Resistance to bends at angle ± 90^0 with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 15 J	Resistant

[1] Tensile strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №17 (1715x955x1715)
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). 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	7	8
red	green	blue	yellow	white	slate	brown	violet

5. Product data

Fiber count	192
Loose tubes x fibers	8x24