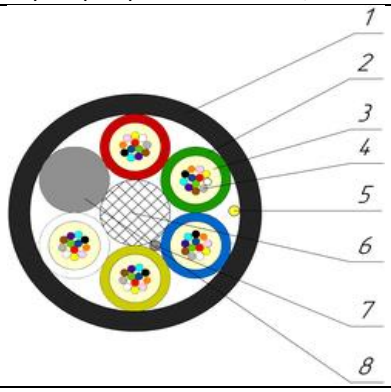
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	A-DQ(ZN)2Y-(1-6)x12-250-652D/657A1-1081



Cable construction
1. Outer sheath: UV-resistant PE
2. Optical loose tube: 1,75mm PBT Tube
3. Intramodule compound: Thixotropic compound
4. Optical Fiber: 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 1,8mm FRP-E
7. Water-blocking element of core: Water-swellable 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 +35^0 C, %	98		
Outer diameter, mm	6,0±0,2		
Average weight of 1 km of the cable, kg	30±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than[1], kN Dynamic	1
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 ± 90^0 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.

1	2	3	4	5	6
red	green	blue	yellow	white	slate

5. Product data

Fiber count	12	24	48	72
Loose tubes x fibers	1x12	2x12	4x12	6x12