PRELIMINARY TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	A-DQ(ZN)2Y(SR)2Y-(1-8)x12-2404
Standards	IEC 60793, IEC 60794

Cable construction
1. Water-blocking element of core: Water-swellable yarn
2. Outer sheath: UV-resistant PE
3. Tape armor: Corrugated steel tape
4. Inner sheath: UV-resistant PE
5. Insulation of central strength element: PE
6. Central strength element: Glass reinforced plastic FRP-E with insulation
7. Rip-cord: Synthetic yarn
8. Intramodule compound: Thixotropic compound
9. Optical Fiber: Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1
10. Optical loose tube: PBT Tube

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	13,4±0,2		
Average weight of 1 km of the cable, kg	174±5%		

Mechanical characteristics

Calculated tensile strength, not less than[1], kN Dynamic	3,4
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,4 (4000)
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 10 J	Resistant

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

Packaging and marking

Cable factory length, km	4
Package	Drum №14g (1400x1015x1400)
Tolerance, %	±3,0
Short lengths (customer approval)	Maximum 5%
Marking method	Inkjet printing
The accuracy of marking, %	±0,5

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	7	8
red	green	blue	yellow	white	slate	brown	violet

Product data

Fiber count	12	24	48	72	96
Loose tubes x fibers	1x12	2x12	4x12	6x12	8x12