


TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable type	A-DQ(ZN)2Y (12-24)x24/ A-DQ(ZN)4Y (12-24)x24-10129b		
Standards	IEC 60793, IEC 60794		
			
<p>Cable construction</p> <ol style="list-style-type: none"> 1. Outer sheath: UV-resistant PE/PA 2. Optical loose tube: 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. Central strength element: Glass reinforced plastic FRP-E 6. Water-blocking element of core: Water-swellaable yarn 7. Rip-cord: Water-swellaable yarn 			
Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20 to +70 °C	from -10 to 50 °C	from -20 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35 ^o C, %	98		
Outer diameter, mm	9,2±0,2		
Average weight of 1 km of the cable, kg	89±5%		

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN	
Dynamic	3
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,03 (300)
Resistance to axial torsion at angle ±180° on 2 m length cable	Resistant
Resistance to bends at angle ± 90° with a radius equal to 20 nominal cable diameters	Resistant
Resistance to impact 2 J	Resistant

¹ Tensile strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №14 (1400x815x1400)
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
<u>red+m</u>	<u>green+m</u>	<u>blue+m</u>	<u>yellow+m</u>	<u>white+m</u>	<u>slate+m</u>	<u>brown+m</u>	<u>violet+m</u>	<u>aqua+m</u>	transparent	<u>orange+m</u>	<u>pink+m</u>

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		
1	2	3	4	5	6	7	8	9	1	2	3
red	green	blue	yellow	white	slate	brown	violet	aqua	red	green	blue
Layer 2											
4	5	6	7	8	9	10	11	12	13	14	15
yellow	white	slate	brown	violet	aqua	black	orange	pink	<u>red+m</u>	<u>green+m</u>	<u>blue+m</u>

Cable sheath coloring

PE						PA					
black						orange					

5. Product data

Fiber count	288	384	432	576
Loose tubes x fibers	12x24	16x24	18x24	24x24