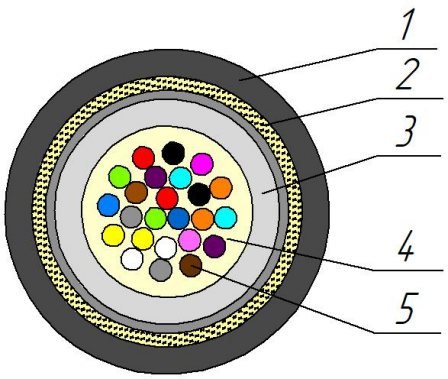
TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

Cable construction

Cable type	A-D(ZN)2Y-(2-24)/ A-D(ZN)4Y-(2-24)-7215
Standards	IEC 60793, IEC 60794



Cable construction
1. Outer sheath: UV-resistant PE/PA
2. Strength element of core: aramid yarns
3. Optical loose tube: PBT Tube
4. Intramodule compound: Thixotropic compound
5. Optical Fiber: Single-mode Fiber[1]

Temperature ranges	Storage and transportation temperature	Installation temperature	Operating temperature
	from -20 to +70 °C	from -10 to +60 °C	from -20 to +70 °C
Resistance to water penetration	Water resistant		
Relative humidity at +35^0 C, %	98		
Outer diameter, mm	2,9±0,2		
Average weight of 1 km of the cable, kg	7,5±5%		

Mechanical characteristics

Calculated tensile strength, not less than[2], kN Dynamic	 0,25
Minimum bending radius	15D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
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 15 nominal cable diameters	Resistant
Resistance to impact 2 J	Resistant

[1] Can be used:
- 250 µm Single-mode Fiber according to ITU-T G.652.D or G.652.D/G.657.A1
- 200 µm Single-mode Fiber according to ITU-T G.652.D/G.657.A1

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

Packaging and marking

Cable factory length, km	6
Package	Coil ОККО №2 (600x450x600)
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). 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

Cable sheath coloring		
Sheath material	PE	PA
Color	black	orange