TECHNICAL DESCRIPTION OF FIBER OPTIC CABLE

1. Cable construction

Cable construction 1. Outer sheath: UV-resistant PE 2. Optical loose tube: 1,2mm 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. Rip-cord: Water-swellable yarn 6. Central strength element: Glass reinforced plastic 2,3mm FRP-E 7. Water-blocking element of core: Water-swellable yarn										
 Outer sheath: UV-resistant PE Optical loose tube: 1,2mm PBT Tube Intramodule compound: Thixotropic compound Optical Fiber: 200 mkm Single-mode Fiber according to ITU-T G.652.D and G.657.A1 Rip-cord: Water-swellable yarn Central strength element: Glass reinforced plastic 2,3mm FRP-E 										
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6. Central strength element: Glass reinforced plastic 2,3mm FRP-E										
7. Water-blocking element of core: Water-swellable yarn										
Temperature ranges Storage and transportation Installation Operation	ing									
temperature temperature temperature	-									
from -40 to +70 °C from -10 to +50 °C from -20 to										
Resistance to water Water resistant										
penetration										
Relative humidity at +35 ^o C, % 98	98									
Outer diameter, mm 7,9±0,2										
Average weight of 1 km of the 61±5%										
cable, kg										

2. Mechanical characteristics

Calculated tensile strength, not less than ¹ , kN Dynamic	2
Minimum bending radius	20D
Short-term crush test, kN/cm (N/10cm)	0,05 (500)
Resistance to axial torsion at angle ±360° 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 5 J	Resistant

 $^{^{1}\}ensuremath{\,{\rm Tensile}}$ strength value is for maximum number of fibers design

3. Packaging and marking

Cable factory length, km	6
Package	Drum №12a (1221x855x1221)
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

Colorin	Coloring of optical loose tube (According to Customer's requirements color can be different). Core-filler color is										
natural.	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>

5. Product data

Fiber count	192	216	288
Loose tubes x fibers	16x12	18x12	24x12