OTDr ADSS
(round shape)

SINGLEMODE OPTICAL FIBRE	
TYPE OF FIBER CHARACTERISTICS **Fiber used:** **Corning® SMF-28® Ultra fiber**	Low-loss high performance fiber SM ITU-T G. 657 A1
OPTICAL CHARACTERISTICS	
Wavelength attenuation 850 nm 1300 nm 1310 nm 1550 nm	 - - ≤ 0,32 dB/km ≤ 0,18 dB/km
Mode field diameter	8,6-9,5 μm (1310 nm)
Cutoff wavelength λ_c (OF – 2 m) λ_{cc} (OF or OC – 22 m)	 1190-1330 nm ≤ 1260 nm
Chromatic dispersion 1285 – 1330 nm 1550 nm 1530 – 1565 nm 1525 – 1575 nm 1625 nm	 ≤ 18 pc/(nm·km) - ≤ 22 pc/(nm·km)
Band width λ = 850 nm λ = 1300 nm	 - -
Wavelength range with zero variance value	1300 – 1324 nm
Maximum slope of dispersion curve at the point of its zero value	≤ 0,092 pc/(nm²·km)
Polarization mode dispersion (PMD) 1550 nm	≤ 0,2 pc·km$^{1/2}$
Numerical aperture (NA)	-
GEOMETRICAL CHARACTERISTICS	
Non-circularity of core	-
Core diameter	-
Cladding diameter	125 ± 0,7 μm
Cladding Non-circularity	≤ 1,0 %
Excentricity - core / cladding - mode field / cladding	 - ≤ 0,5 μm
Coating diameter	245 ±10 μm
MECHANICAL CHARACTERISTICS	
Strength test	≥ 1,0 % (0,69 hPa)
Radius of own bend	≥ 4,0 m
Macrobend losses: - radius of mandrel, mm - number of coils, pc. - Increase in attenuation, dB at wavelength 1550 nm 1625 nm	 10 15 10 1 0,25 0,75 1,0 1,5
ENVIRONMENTAL IMPACTS	
Dependence of attenuation in the temperature range (-60…+85) °C at wavelength 850 nm 1300 nm 1310 nm 1550 nm	 - - ≤ 0,05 dB/km ≤ 0,05 dB/km

AREA OF APPLICATION

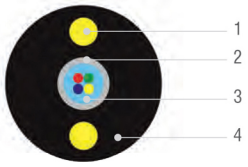
– Construction of broadband access networks
– it is designed and suitable for suspension and operation on supports of the air lines of communications, urban electric transport, overhead power transmission lines and overhead contact railway systems, where it may be exposed to wind load, ice load or combination of these loads

ADVANTAGES

– High performance
– Ease of preparation and installation

CABLE STRUCTURE

1 – Strength member – Fiber reinforced plastic (FRP)
2 – Peripheral strength member – glass yearns
3 – Central tubes gel-filled with optic fibers UV colored
4 – Outer sheath – polyethylene



International standard:
IEC60794; Telecordia gr-20; EN 50173; ISO/IEC 11801; ANSI/TIA - 588-C.3

Quantity of optical fibres, pcs.	24
Cable diameter, mm	10,4 ± 0,3
Cable weight, kg/km	40
Maximum allowed tensile force (short-term load), kN	1,0
Minimum bending radius, mm	20 x cable diameter
Maximum allowed crushing force, N/mm	500
Operation temperature range, °C	- 40°C - +60°C
Storage temperature range, °C	- 20°C - +60°C
Installation temperature range, °C	- 10°C - +60°C