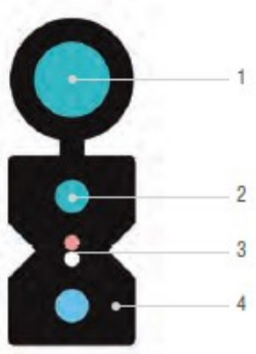
FTTH UMM ADSS

(remote and peripheral load-bearing elements – metal wire)

1 – Suspension member – steel wire
2 – Strength member – two steel wires
3 – Singlemode optic fibers meet
4 – Outer sheath – LSZH



Material of protective coating : G.657 A1
singlemode optical fibre in accordance with recommendation of iTu-T g. 657 A1

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/(nm^2·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) ^{0}C at wavelength 850 nm 1300 nm 1310 nm 1550 nm	 - - ≤ 0,05 dB/km ≤ 0,05 dB/km

OPERATING CHARACTERISTICS:

Quantity of optical fibres, pcs.	4
Cable diameter, mm	5,8 x 2,1
Cable weight, kg/km	25
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

AREA OF APPLICATION

Drop cable is designed for last-one-mile in the FTTx network, enhancing the accessibility to the fiber and maximizes the installation workability

FEATURES

– 2 parallel peripheral strength members protecting the fibers ensure good performance of crush resistance: Simple structure, small weight and high practicability
– Easy jacket removal without special tools
– Easily splice, simplify the installation and maintenance
– Environmental protection – Low smoke, zero halogen and flame retardant sheath
– Self-support structure

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