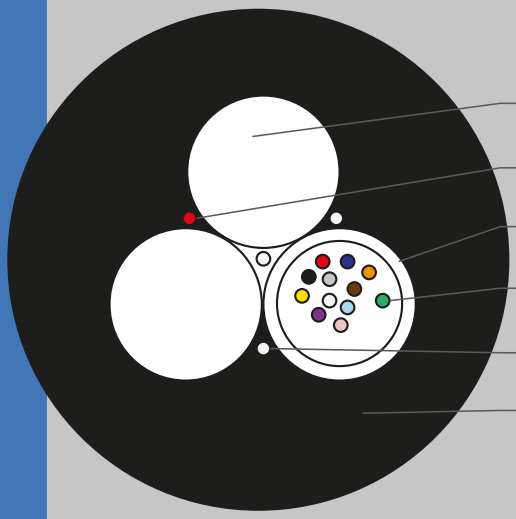
MINI ADSS OUTDOOR CABLE FOR AERIAL SELF-SUPPORTED INSTALLATION

CROSS SECTION



Note: Because the optical cable structure belongs to 3 units, the cable core structure is irregular, and the sheath thickness is relatively thin, and the surface of the optical cable sheath has certain lines.

CABLE SPECIFICATION

Each fiber will be identifiable throughout the length of the cable in accordance with the following color sequence. Fiber color starts from No. 1 Blue

Fiber Color Code

N°	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Grey	White
N°	7	8	9	10	11	12
Color	Red	Black	Yellow	Purple	Pink	Aqua

Loose tube Color Code

N°	1
Color	White

Cable configuration

Element	Contents	Value
		2~12
Loose tube	Material	PBT
	Number	1
Max. fiber counts per tube	Number	2~12
Strength member	Material	FRP
Water blocking	Material	Water blocking yarns
Ripcord	Number	1
	Color	Red
Outer sheath	Material	HDPE
	Color	Black
Cable diameter (mm) (± 5%)		6.8
Cable weight (kg/km) (± 20%)		37

Mechanical Performance of Cable

Item	Unit	Value
Allowed tensile (Short term)	N	1000
Crush strength (Short term)	N/100mm	1000

Minimum Allowable Bending Radius
Static: 15D
Dynamic: 30D
D is the out diameter of the cable

Optical properties of the SM fiber is according to ITU-T G.652D standard requirements.

Description	Especification
Mode Field diameter (MFD) @1310 nm	9.2 ± 0.4 [μm]
Mode Field diameter (MFD) @1550 nm	10.4 ± 0.5 [μm]
Cladding diameter	125.0 ± 0.7 [μm]
Core concentricity error	≤0.6 [μm]
Cladding non-circularity	≤ 1.0%
Coating diameter (Before colored)	245 ± 10 [μm]
Coating diameter (colored)	250 ± 15 [μm]
Coating/cladding concentricity error	≤ 12 [μm]
Cable cutoff wavelength (λ_0)	≤1260 [nm]
Point discontinuity	≤0.05 [dB]
Attenuation coefficient	
λ 1310 nm	≤0.36 [dB/km]
λ 1550 nm	≤0.22 [dB/km]
Macro-bend induced attenuation	
100 turns, 30mm radius @1550n/1625m	≤0.05 [dB]/≤0.1 [dB]
PMD	
Max. individual fiber	≤ 0.2 [ps/√km]
PMD_Q	≤ 0.1 [ps/√km]
Zero-dispersion wavelength (λ_0)	1300~1324 [nm]
Zero-dispersion slope (S_0)	≤ 0.092 [ps/(nm²·km)]
Chromatic dispersion coefficient	
@1288-1339 nm	≤3.5ps/ (nm. km)
@1271-1360 nn	≤5.3ps / (nm. km)
@1550 nm	≤18ps/ (nm. km)
@1625 nm	≤22ps/ (nm. km)
Proof test level	100 [kpsi] (0.69 [Gpa]), 1% strain
Coating strip force(peak value)	1.3~8.9 [N]
Fiber curl (Radius)	≥ 4 [m]