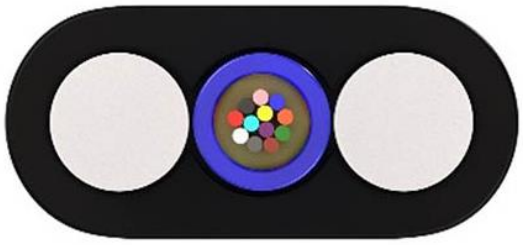
Outdoor FTTx cable Flat ADSS-12FO

1. Cable Design



2. Cable Structure & Parameters

Count of fibers		12
Fiber type		G.652D
Gel-filled Loose Tube	Material	PBT
	Diameter（±0.06）mm	2.0
No. of fibers per Loose Tube		12
Strength Member	Material	FRP
	Diameter（±0.05）mm	1.5
	No.	2pcs
Outer Sheath	Material	HDPE
Cable Diameter（±0.2）mm		7.8 x 3.8mm
Cable Weight（±2）kg		33
Min.bending radius	Without Tension	10×Cable-ϕ
	Under Maximum Tension	20×Cable-ϕ
Temperature range （℃）	Installation	-20~+60
	Transport&Storage	-20~+70
	Operation	-20~+70

3. Application:

NO.	Item		Requirement
1	Allowable Tensile Strength	Short Term	1500N
		Long Term	500N
2	Allowable Crush Resistance	Short Term	800 (/100mm)
		Long Term	300 (/100mm)

4. Fiber &Tube Colors

No.	1	2	3	4	5	6
Color	Blue	Orange	Green	Brown	Gray	White
No.	7	8	9	10	11	12
Color	Red		Yellow	Violet	Pink	Aqua

5. The properties of single mode optical fiber (ITU-T Rec. G.652.D)

Item	Specification
Fiber type	Single mode
Fiber material	Doped silica
Attenuation coefficient @ 1310 nm @ 1383 nm @ 1550 nm @ 1625 nm	 ≤ 0.36 dB/km ≤ 0.32 dB/km ≤ 0.22 dB/km ≤ 0.30 dB/km
Point discontinuity	≤ 0.05 dB
Cable cut-off wavelength	≤ 1260 nm
Zero-dispersion wavelength	1300 ~ 1324 nm
Zero-dispersion slope	≤ 0.092 ps/(nm^2.km)
Chromatic dispersion @ 1288 ~ 1339 nm @ 1271 ~ 1360 nm @ 1550 nm @ 1625 nm	 ≤3.5 ps/(nm. km) ≤5.3 ps/(nm. km) ≤18 ps/(nm. km) ≤22 ps/(nm. km)
PMD_Q (Quadrature average*)	≤0.2 ps/km$^{1/2}$
Mode field diameter @ 1310 nm	9.2±0.4 um
Core / Clad concentricity error	≤ 0.5 um
Cladding diameter	125.0 ± 0.7 um
Cladding non-circularity	≤1.0%
Primary coating diameter	245 ± 10 um
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

6. Main mechanical & environmental performance test

Item	Test Method	Acceptance Condition
Tensile Strength IEC 794-1-2-E1	- Load: Short term tension - Length of cable: about 50m	- Fiber strain ≤ 0.36% - Loss change ≤ 0.1 dB @1550 nm - No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change ≤ 0.05dB@1550nm - No fiber break and no sheath damage.
Impact Test IEC 60794-1-2-E4	- Points of impact: 3 - Times of per point: 1 - Impact energy: 5J	- Loss change ≤ 0.1dB@1550nm - No fiber break and no sheath damage.
Temperature Cycling Test YD/T901-2001-4.4.4.1	- Temperature step: +20°C→-40°C→+70°C →+20°C - Time per each step: 12 hrs - Number of cycle: 2	- Loss change ≤ 0.05 dB/km@1550 nm - No fiber break and no sheath damage.

7. Package and marking

Package 2km/drum or any length customer required.
Cable Mark:According to customer's requirements.
Drum Mark: According to customer's requirements.
Test Report Test report and certification supplied.