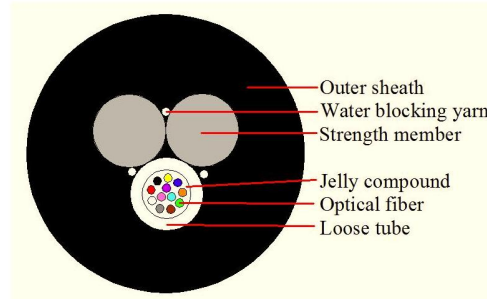


New Designed Outdoor Fiber Optic Cable ASU Aerial

Non-armored Mini ADSS Fiber Cable 2~24core PE

Cable Design



Technical data

No. of cable		2~12	14~24
Fiber Model		G.652D	
Strength Member	Material	FRP	
	Diameter (±0.05) mm	1.5	
Loose Tube	Material	PBT	
	Diameter (±0.06) mm	2.0	2.8
	Thickness (±0.03) mm	0.35	0.4
	The Max.Core NO./Tube	12	24
Outer Sheath	Material	MDPE	
	Thickness (±0.2) mm	2.0	
Cable Diameter		7.0	
Span meter		80	
Cable Weight		52	
Min. bending radius	Without Tension	10.0 × Cable- ϕ	
	Under Maximum Tension	20.0 × Cable- ϕ	
Temperature range (°C)	Installation	-20~+60	
	Transport&Storage	-40~+70	
	Operation	-40~+70	

Fibre Colours

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

No.	13	14	15	16	17	18
Color	Blue+P	Orange+P	Green+P	Brown+P	Gray+P	White+P
No.	19	20	21	22	23	24
Color	Red+P	Natural+P	Yellow+P	Violet+P	Pink+P	Aqua+P

* "P" means Point mark

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)
PMD _Q (Quadrature average*)	≤ 0.2 ps/km ^{1/2}
Mode field diameter @ 1310 nm	9.2±0.4 μm
Core / Clad concentricity error	≤ 0.5 μm
Cladding diameter	125.0 ± 0.7 μm
Cladding non-circularity	≤ 1.0%
Primary coating diameter	245 ± 10 μm
Proof test level	100 kpsi (=0.69 Gpa), 1%
Temperature dependence 0oC~ +70oC @ 1310 & 1550nm	≤ 0.1 dB/km

Application:

NO.	Item	Requirement
1	Allowable Tensile Strength	Short Term 1500 N
		Long Term 800 N
2	Allowable Crush Resistance	Short Term 1000 (N/100mm)
		Long Term 300 (N/100mm)

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	- No fiber break and no sheath damage.
Crush Test IEC 60794-1-2-E3	- Load: Short term crush - Load time: 1min	- Loss change $\leq 0.05\text{dB}@1550\text{nm}$ - 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 $\leq 0.1\text{dB}@1550\text{nm}$ - 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 $\leq 0.05\text{ dB/km}@1550\text{ nm}$ - No fiber break and no sheath damage.

Sheath marking

The color of marking is white, but if the remarking is necessary, the **white color** marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.