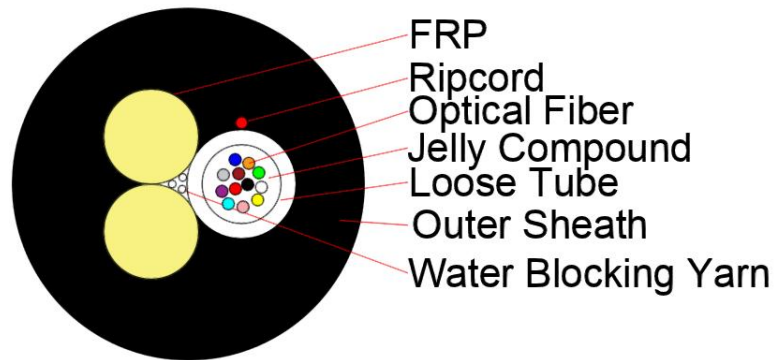


Central Loose Tube Aerial Self Supported, G.652D, FRP, PE

Cable Design



Technical data

No. of fiber		4/8/12/24
Span		120m
Fiber Model		G.652D
Loose Tube	Material	PBT
	Diameter	3.0 ± 0.06 mm
	Thickness	0.35 ± 0.03 mm
	Color	White
Strength Member	Material	FRP
	Diameter	2.6 ± 0.05 mm
Ripcord	Material	Nylon
Outer Sheath	Material	PE
Cable Diameter		8.2 ± 0.3 mm
Cable Weight		$65 \pm 10\%$ kg
Allowable Tensile Strength	Long Term	1500N
	Short Term	500N
Allowable Crush Resistance		1000N/100mm
Min. bending radius	Without Tension	$10.0 \times \text{Cable- } \phi$
	Under Maximum Tension	$20.0 \times \text{Cable- } \phi$
Temperature range (°C)	Installation	-20~+60
	Transport & Storage	-40~+70
	Operation	-40~+70

Fiber Colors

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

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	≤ 0.35 dB/km ≤ 0.32 dB/km ≤ 0.21 dB/km ≤ 0.25 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 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