

GYXTC8Y Aerial Fig8 Fiber Optic Cable, Single-Mode G652D

Variants

24 Core 6 Core 12 core

Details

Cable Structure & Parameter

Items	Unit	Details
Optical Fiber Type	—	Single Mode G.652D
Loose Tube Material	—	PBT
Loose Tube Diameter	mm	3.0
Armor Material	—	Steel wires covered with PE
Armor Diameter	mm	12 × 0.6 mm steel wires (1.0 mm P
Sheath Material	—	PE
Sheath Diameter	mm (±0.3)	8.2
Messenger Material	—	Stranded steel wires

Items	Unit	Details
Messenger Diameter	mm	7 × 1.2 mm (3.6 mm)
Tensile Strength	N	1000 / 3000
Crush Resistance	N / 100mm	300 / 1000

Note:

? Sheath thickness tolerance: ±0.2 mm

? Outer diameter tolerance: ±0.3 mm

Fiber Properties (ITU-T G.652D)

Item	Specification
Fiber Type	Single Mode
Fiber Material	Doped Silica

Attenuation Coefficient

Wavelength	Value
@1310 nm	? 0.36 dB/km
@1383 nm	? 0.32 dB/km

Wavelength	Value
@1550 nm	? 0.22 dB/km
@1625 nm	? 0.30 dB/km

General Optical Properties

Item	Specification
Point Discontinuity	? 0.05 dB
Cut-off Wavelength	? 1260 nm
Zero Dispersion Wavelength	1300 ~ 1324 nm
Zero Dispersion Slope	? 0.093 ps/(nm ² ·km)

Chromatic Dispersion

Wavelength Range	Value
1288 ~ 1339 nm	? 3.5 ps/(nm·km)
1271 ~ 1360 nm	? 5.3 ps/(nm·km)
1550 nm	? 18 ps/(nm·km)

Wavelength Range	Value
1625 nm	? 22 ps/(nm·km)

Physical & Mechanical Properties

Item	Specification
PMD (Quadrature Avg.)	? 0.2 ps/?km
Mode Field Diameter @1310 nm	9.2 ± 0.4 μm
Core/Cladding 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)
Temperature Dependence (0°C ~ +70°C)	? 0.1 dB/km

[Download GYXTC8Y Aerial Fig8 Fiber : Data sheet in PDF File](#)