GYXTC8Y Aerial Fig8 Fiber Optic Cable, Single-Mode G652D

Variants

6 Core 48 Core 24 Core 12 core

Details

GYXTC8Y Aerial Fig-8 Single Mode Fiber Cable

The **GYXTC8Y Aerial Fig-8 Fiber Optic Cable** is designed for outdoor aerial installation with integrated messenger wire support. It uses **Single Mode G.652D optical fiber**, PE sheath, loose tube protection, and steel wire armor for reliable performance in telecom, ISP, FTTH backbone, and long-distance fiber networks.

Cable Structure & Parameters

Item	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 with 1.0 mm

Item	Unit	Details
Sheath Material	—	PE
Sheath Diameter	mm	8.2 ± 0.3
Messenger Material	—	Stranded steel wires
Messenger Diameter	mm	7 × 1.2 mm, total 3.6 mm
Tensile Strength	N	1000 / 3000
Crush Resistance	N / 100mm	300 / 1000

Fiber Properties – ITU-T G.652D

Item	Specification
Fiber Type	Single Mode
Fiber Material	Doped Silica
Attenuation @1310nm	? 0.36 dB/km
Attenuation @1383nm	? 0.32 dB/km
Attenuation @1550nm	? 0.22 dB/km
Attenuation @1625nm	? 0.30 dB/km

General Optical & Mechanical 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/(nm²·km)
Chromatic Dispersion 1288 ~ 1339nm	? 3.5 ps/(nm·km)
Chromatic Dispersion 1271 ~ 1360nm	? 5.3 ps/(nm·km)
Chromatic Dispersion @1550nm	? 18 ps/(nm·km)
Chromatic Dispersion @1625nm	? 22 ps/(nm·km)
PMD	? 0.2 ps/?km
Mode Field Diameter @1310nm	9.2 ± 0.4 μm
Cladding Diameter	125.0 ± 0.7 μm
Primary Coating Diameter	245 ± 10 μm
Proof Test Level	100 kpsi, approx. 0.69 GPa, 1%
Temperature Dependence	? 0.1 dB/km from 0°C to +70°C

Note: Sheath thickness tolerance is ±0.2 mm and outer diameter tolerance is ±0.3 mm.

Download: GYXTC8Y Aerial Fig-8 Fiber Cable datasheet available in PDF file.

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