GYXTC8S Aerial Self-Supporting Fig8 Single-Mode Fiber Optic Cable, G652D

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Variants

12 Core 48 Core 6 Core 24 Core

Details

4 Channel DWDM Fiber Mux / Demux (Cassette Type)

Product Overview

GYXTC8S Fiber Optic Cable Specifications

1. Cable Construction

Component	Material/Details	Dimensions
Loose Buffer Tube	PBT	Diameter: 2.2 mm Thickness: 0.3 mm
Water Blocking	Water Blocking Yarn	-
Armor	Steel Tape	Thickness: 0.115 mm
Messenger Wire	Steel Wire	Diameter: 2.0 mm

Outer Sheath	MDPE (Black)	Thickness: 1.6 ± 0.2 mm
Cable Dimensions	Elliptical (H × W)	6.6 × 11.9 mm (±0.5 mm)
Cable Weight	-	66 kg/km (±10%)

2. Fiber Specifications (ITU-T G.652.D)

Parameter.	**Unit**	**Value**
Cladding Diameter	?m	125 ± 0.7
Core/Cladding Concentricity Error (ECC)	?m	? 0.6
Cladding Non-Circularity	%	? 1.0
Coating Diameter	?m	245 ± 10
Coating/Cladding Concentricity Error	?m	? 12
Attenuation @ 1310 nm	dB/km	? 0.35
Attenuation @ 1550 nm	dB/km	? 0.21
Mode Field Diameter @ 1310 nm (MFD)	?m	9.2 ± 0.4
Cut-off Wavelength (?cc)	nm	? 1260
Zero Dispersion Wavelength (??)	nm	1300 ~ 1324

3. Mechanical & Environmental Performance

Parameter	Value
Tensile Strength	Short Term: 2000 N Long Term: 800 N
Bending Radius	Static: 10× Cable Dia. (66 mm) Dynamic: 20× Cable Dia. (132 mm)
Operating Temperature	-40°C to +60°C
Installation Temperature	-10°C to +40°C

4. Fiber & Tube Identification

Fiber No.	Color.	Loose Tube No.	Color.
1	Blue	1	Natural
2	Orange		
3	Green		
4	Brown		
5	Slate		
6	White		
7	Red		

8	Black		
9	Yellow		
10	Violet		
11	Pink		
12	Aqua		

5. Performance Tests & Acceptance Criteria

Test	**Test Method**	**Conditions**	**Acceptance Criteria**
Tensile	IEC 60794-1-21-E1	- Load: Short-term tension - Mandrel dia.: ? 30D - Cable length: ? 50m - Duration: 1h	- Loss change ? 0.05 dB @1550nm - No fiber/sheath damage.
Crush	IEC 60794-1-21-E3	- Load: 800 N - Sample: 100 mm - Duration: 1 min	- Loss change ? 0.05 dB @1550nm - No fiber/sheath damage.

Impact	IEC 60794-1-21-E4	- Impact surface radius: 12.5 mm - Points: 5 - Energy: 4.5 N·m	- Loss change ? 0.05 dB @1550nm - No fiber/sheath damage.
Repeated Bending	IEC 60794-1-21-E6	- Bending radius: 30×OD - Cycles: 100 - Load: 150 N	- Loss change ? 0.05 dB @1550nm - No fiber/sheath damage.
Torsion	IEC 60794-1-21-E7	- Length: 1 m - Twist angle: ±90° - Cycles: 10 - Load: 250 N	- Loss change ? 0.05 dB @1550nm - No fiber/sheath damage.
Temperature Cycling	IEC 60794-1-22-F1	- Range: -40°C ~ +60°C - Cycles: 2 - Step duration: 12h	- Loss change ? 0.05 dB/km @1550nm - No fiber/sheath damage.
Water Penetration	IEC 60794-1-22-F5B	- Water height: 1 m - Length: 3 m - Duration: 24h	- No water leakage.

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