

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

---

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

## 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<br>Thickness: 0.3 mm |
| Water Blocking    | Water Blocking Yarn | -                                     |
| Armor             | Steel Tape          | Thickness: 0.115 mm                   |
| Messenger Wire    | Steel Wire          | Diameter: 2.0 mm                      |

|                         |                    |                                      |
|-------------------------|--------------------|--------------------------------------|
| <b>Outer Sheath</b>     | MDPE (Black)       | Thickness: $1.6 \pm 0.2$ mm          |
| <b>Cable Dimensions</b> | Elliptical (H × W) | $6.6 \times 11.9$ mm ( $\pm 0.5$ mm) |
| <b>Cable Weight</b>     | -                  | 66 kg/km ( $\pm 10\%$ )              |

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

| <b>Parameter.</b>                            | <b>Unit</b> | <b>Value</b>  |
|--|-------------|---------------|
| Cladding Diameter                            | μm          | $125 \pm 0.7$ |
| Core/Cladding Concentricity Error (ECC)      | μm          | ± 0.6         |
| Cladding Non-Circularity                     | %           | ± 1.0         |
| Coating Diameter                             | μm          | $245 \pm 10$  |
| Coating/Cladding Concentricity Error         | μm          | ± 12          |
| Attenuation @ 1310 nm                        | dB/km       | ± 0.35        |
| Attenuation @ 1550 nm                        | dB/km       | ± 0.21        |
| Mode Field Diameter @ 1310 nm (MFD)          | μm          | $9.2 \pm 0.4$ |
| Cut-off Wavelength (λ <sub>cc</sub> )        | nm          | ± 1260        |
| Zero Dispersion Wavelength (λ <sub>0</sub> ) | nm          | 1300 ~ 1324   |

### 3. Mechanical & Environmental Performance

| <b>Parameter</b>                | <b>Value</b>   |
|---------------------------------|--|
| <b>Tensile Strength</b>         | Short Term: 2000 N<br><br>Long Term: 800 N                             |
| <b>Bending Radius</b>           | Static: 10× Cable Dia. (66 mm)<br><br>Dynamic: 20× Cable Dia. (132 mm) |
| <b>Operating Temperature</b>    | -40°C to +60°C   |
| <b>Installation Temperature</b> | -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  |
|----------------|-------------------|--|--|
| <b>Tensile</b> | IEC 60794-1-21-E1 | <ul style="list-style-type: none"> <li>- Load: Short-term tension</li> <li>- Mandrel dia.: ? 30D</li> <li>- Cable length: ? 50m</li> <li>- Duration: 1h</li> </ul> | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB @1550nm</li> <li>- No fiber/sheath damage.</li> </ul> |
| <b>Crush</b>   | IEC 60794-1-21-E3 | <ul style="list-style-type: none"> <li>- Load: 800 N</li> <li>- Sample: 100 mm</li> <li>- Duration: 1 min</li> </ul>   | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB @1550nm</li> <li>- No fiber/sheath damage.</li> </ul> |

|                            |                    |   |   |
|----------------------------|--------------------|---|---|
| <b>Impact</b>              | IEC 60794-1-21-E4  | <ul style="list-style-type: none"> <li>- Impact surface radius: 12.5 mm</li> <li>- Points: 5</li> <li>- Energy: 4.5 N·m</li> </ul>        | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB @1550nm</li> <li>- No fiber/sheath damage.</li> </ul>    |
| <b>Repeated Bending</b>    | IEC 60794-1-21-E6  | <ul style="list-style-type: none"> <li>- Bending radius: 30×OD</li> <li>- Cycles: 100</li> <li>- Load: 150 N</li> </ul>                   | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB @1550nm</li> <li>- No fiber/sheath damage.</li> </ul>    |
| <b>Torsion</b>             | IEC 60794-1-21-E7  | <ul style="list-style-type: none"> <li>- Length: 1 m</li> <li>- Twist angle: ±90°</li> <li>- Cycles: 10</li> <li>- Load: 250 N</li> </ul> | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB @1550nm</li> <li>- No fiber/sheath damage.</li> </ul>    |
| <b>Temperature Cycling</b> | IEC 60794-1-22-F1  | <ul style="list-style-type: none"> <li>- Range: -40°C ~ +60°C</li> <li>- Cycles: 2</li> <li>- Step duration: 12h</li> </ul>               | <ul style="list-style-type: none"> <li>- Loss change ? 0.05 dB/km @1550nm</li> <li>- No fiber/sheath damage.</li> </ul> |
| <b>Water Penetration</b>   | IEC 60794-1-22-F5B | <ul style="list-style-type: none"> <li>- Water height: 1 m</li> <li>- Length: 3 m</li> <li>- Duration: 24h</li> </ul>                     | <ul style="list-style-type: none"> <li>- No water leakage.</li> </ul>   |

[Download GYXTC8S Fiber Optic Cable : Pdf](#)

---

© 2026 | Phone: +977 9851248419 | Email: [info@dtechtrading.com](mailto:info@dtechtrading.com) | Website: <https://demoshop.com>. All rights reserved.