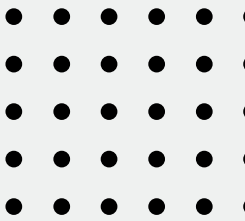


# Optical Fiber Cable

## Single Mode 12Core



**Fiber OSP cable SingleMode, TeraSPEED® Single Jacket/Single Armored, Gel-Free, Stranded Loose Tube, 12 fibers, Singlemode , G657A1, Black jacket color**



## General Specifications :

## Dimensions :

**Gel-free design for cleaner and faster splicing, stranded loose tube construction for flexibility and fiber protection, TeraSPEED® singlemode G.657.A1 fibers ensuring low attenuation and bending performance, single jacket with single armor for mechanical protection in outdoor environments, UV-resistant black jacket for long-term durability, suitable for OSP (Outside Plant) applications with reliable performance in harsh conditions.**

**UK-ROHS Compliant**

## Material Specifications

| S/N | Mechanical Specifications         | RESULT                                    |
|-----|-----------------------------------|-------------------------------------------|
| 1   | Minimum Bend Radius, loaded       | 173 mm   6.811 in                         |
| 2   | Minimum Bend Radius, unloaded     | 115 mm   4.528 in                         |
| 3   | Tensile Load, long term, maximum  | 800 N   179.847 lbf                       |
| 4   | Tensile Load, short term, maximum | 2700 N   606.984 lbf                      |
| 5   | Compression                       | 22 N/mm   125.623 lb/in                   |
| 6   | Compression Test Method           | FOTP-41   IEC 60794-1 E3                  |
| 7   | Flex                              | 25 cycles                                 |
| 8   | Flex Test Method                  | FOTP-104   IEC 60794-1 E6                 |
| 9   | Impact                            | 4.41 N-m   39.032 in lb                   |
| 10  | Impact Test Method                | FOTP-25   IEC 60794-1 E4                  |
| 11  | Strain                            | See long and short term tensile loads     |
| 12  | Strain Test Method                | FOTP-33   IEC 60794-1 E1                  |
| 13  | Twist                             | 10 cycles                                 |
| 14  | Twist Test Method                 | FOTP-85   IEC 60794-1 E7                  |
| 15  | Vertical Rise, maximum            | 740 m   2,427.822 ft                      |
| 16  | Jacket Material                   | PE                                        |
| 17  | Fiber Type                        | G.652.D and G.657.A1,<br>TeraSPEED®   OS2 |

| Environmental Specifications           |                                                  |
|----------------------------------------|--------------------------------------------------|
| Installation temperature               | -30 °C to +70 °C (-22 °F to +158 °F)             |
| Operating Temperature                  | -40 °C to +70 °C (-40 °F to +158 °F)             |
| Storage Temperature                    | 40 °C to +75 °C (-40 °F to +167 °F)              |
| Cable Qualification Standards          | ANSI/ICEA S-87-640   EN 187105   Telcordia GR-20 |
| Environmental Space                    | Aerial, lashed   Buried                          |
| Jacket UV Resistance                   | UV stabilized                                    |
| Water Penetration                      | 24 h                                             |
| Water Penetration Qualification Method | FOTP-104   IEC 60794-1 E6                        |
| ANSI/ICEA S-87-640                     | FOTP-82   IEC 60794-1 F5                         |

| Environmental Test Specifications |                                      |
|-----------------------------------|--------------------------------------|
| Cable Freeze                      | 2 °C   28.4 °F                       |
| Cable Freeze Test Method          | FOTP-98   IEC 60794-1 F15            |
| Heat Age                          | 40 °C to +85 °C (-40 °F to +185 °F)  |
| Heat Age Test Method              | IEC 60794-1 F9                       |
| Low High Bend                     | -30 °C to +60 °C (-22 °F to +140 °F) |
| Low High Bend Test Method         | FOTP-37   IEC 60794-1 E11            |
| Temperature Cycle                 | 40 °C to +70 °C (-40 °F to +158 °F)  |
| Temperature Cycle Test Method     | FOTP-3   IEC 60794-1 F1              |

Regulatory Compliance/Certifications :

- CHINA-ROHS Below maximum concentration value
- ISO 9001:2015 Designed, manufactured and/or distributed under this quality management system