

# Product Specifications



O-048-LN-8W-F12NS

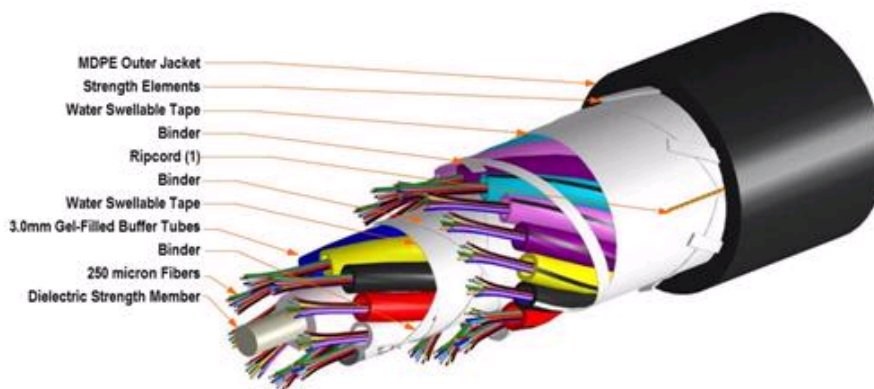
Material ID: 760002634

Single Jacket All-Dielectric Outdoor Cable Arid-Core Construction Stranded Loose Tube



## CHARACTERISTICS

### Representative Image



### General Specifications

|                   |                     |
|-------------------|---------------------|
| Cable Type        | Stranded loose tube |
| Construction Type | Non-armored         |
| Subunit Type      | Gel-filled          |

### Construction Materials

|                              |   |
|------------------------------|---|
| Fiber Type Solution          | TeraSPEED®, zero water peak single-mode fiber |
| Total Fiber Quantity         | 48  |
| Fiber Type                   | TeraSPEED®, zero water peak single-mode fiber |
| Fiber Type, quantity         | 48  |
| Fibers Per Subunit, quantity | 12  |
| Jacket Color                 | Black   |

# Product Specifications

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Jacket UV Resistance UV stabilized

## Dimensions

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|                              |                          |
|------------------------------|--------------------------|
| Buffer Tube/Subunit Diameter | 3.00 mm   0.12 in        |
| Cable Weight                 | 57.0 lb/kft   85.0 kg/km |
| Diameter Over Jacket         | 11.30 mm   0.44 in       |
| Filler, quantity             | 1                        |
| Subunit, quantity            | 4                        |

## Physical Specifications

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|                                   |                     |
|-----------------------------------|---------------------|
| Minimum Bend Radius, loaded       | 16.9 cm   6.7 in    |
| Minimum Bend Radius, unloaded     | 11.3 cm   4.4 in    |
| Tensile Load, long term, maximum  | 180 lbf   800 N     |
| Tensile Load, short term, maximum | 2700 N   607 lbf    |
| Vertical Rise, maximum            | 958.0 m   3143.0 ft |

## Environmental Specifications

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|                          |                                      |
|--------------------------|--------------------------------------|
| Environmental Space      | Aerial, lashed   Buried              |
| 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) |

## Mechanical Test Specifications

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|                               |  |
|-------------------------------|--|
| Compression                   | 125 lb/in   22 N/mm                        |
| Compression Test Method       | FOTP-41   IEC 60794-1-2, Section 7         |
| Flex                          | 35 cycles                                  |
| Flex Test Method              | IEC 60794-1-2, Section 10   FOTP-104       |
| Impact                        | 2.17 ft lb   2.94 N-m                      |
| Impact Test Method            | FOTP-25   IEC 60794-1-2, Section 8         |
| Strain                        | See long term and short term tensile loads |
| Strain Test Method            | FOTP-33   IEC 60794-1-2, Section 5         |
| Twist                         | 10 cycles                                  |
| Twist Test Method             | FOTP-85   IEC 60794-1-2, Section 11        |
| Water Penetration             | 24 h                                       |
| Water Penetration Test Method | FOTP-82   IEC 60794-1-2, Section 24        |

## Environmental Test Specifications

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|                          |                                     |
|--------------------------|-------------------------------------|
| Cable Freeze             | -2 °C   28 °F                       |
| Cable Freeze Test Method | FOTP-98                             |
| Drip                     | 70 °C   158 °F                      |
| Drip Test Method         | FOTP-81   IEC 60794-1-2, Section 17 |

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|                               |                                      |
|-------------------------------|--------------------------------------|
| Heat Age                      | -40 °C to +85 °C (-40 °F to +185 °F) |
| Heat Age Test Method          | Not applicable                       |
| Low High Bend                 | -30 °C to +60 °C (-22 °F to +140 °F) |
| Low High Bend Test Method     | FOTP-28   IEC 60794-1-2, Section 28  |
| Temperature Cycle             | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | FOTP-3   IEC 60794-1-2, Section 22   |

## Qualification Specifications


Cable Qualification Standards    ANSI/ICEA S-87-640-2006 | EN 187105 | Telcordia GR -20-CORE Issue 3

## Regulatory Compliance/Certifications

| Agency          | Classification   |
|-----------------|--|
| RoHS 2002/95/EC | Compliant  |
| ISO 9001:2008   | Designed, manufactured and/or distributed under this quality management system |



## INCLUDED PRODUCTS

 **CS-8W-LT** (Product Component—not orderable)  
TeraSPEED® OS2 Singlemode Fiber