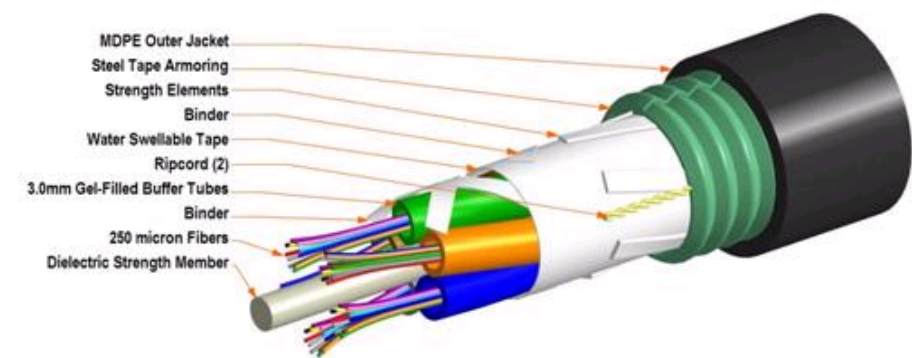


760002295 | O-024-LA-8W-F12NS  
Single Jacket Single Armor Outdoor Stranded Loose Tube Arid-Core Construction Cable

## Representative Image



## General Specifications

|                   |                     |
|-------------------|---------------------|
| Cable Type        | Stranded loose tube |
| Construction Type | Armored             |
| Subunit Type      | Gel-filled          |

## Construction Materials

|                              |                                              |
|------------------------------|----------------------------------------------|
| Fiber Type Solution          | TeraSPEED®, zero water peak singlemode fiber |
| Total Fiber Quantity         | 24                                           |
| Armor Type                   | Corrugated steel                             |
| Fiber Type                   | TeraSPEED®, zero water peak singlemode fiber |
| Fiber Type, quantity         | 24                                           |
| Fibers Per Subunit, quantity | 12                                           |
| Jacket Color                 | Black                                        |
| Jacket UV Resistance         | UV stabilized                                |

## Dimensions

|                              |                           |
|------------------------------|---------------------------|
| Buffer Tube/Subunit Diameter | 3.00 mm   0.12 in         |
| Cable Weight                 | 94.0 lb/kft   139.0 kg/km |
| Diameter Over Jacket         | 12.70 mm   0.50 in        |
| Filler, quantity             | 3                         |
| Subunit, quantity            | 2                         |

## Physical Specifications

|                             |                  |
|-----------------------------|------------------|
| Minimum Bend Radius, loaded | 19.0 cm   7.5 in |
|-----------------------------|------------------|

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|                                   |         |  |           |
|-----------------------------------|---------|--|-----------|
| Minimum Bend Radius, unloaded     | 12.7 cm |  | 5.0 in    |
| Tensile Load, long term, maximum  | 180 lbf |  | 800 N     |
| Tensile Load, short term, maximum | 2700 N  |  | 607 lbf   |
| Vertical Rise, maximum            | 587.0 m |  | 1925.9 ft |

## Environmental Specifications

|                          |                                      |  |        |
|--------------------------|--------------------------------------|--|--------|
| 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

|                               |                                       |  |                           |
|-------------------------------|---------------------------------------|--|---------------------------|
| Compression                   | 250 lb/in                             |  | 44 N/mm                   |
| Compression Test Method       | FOTP-41                               |  | IEC 60794-1-2, Section 7  |
| Flex                          | 35 cycles                             |  |                           |
| Flex Test Method              | FOTP-24                               |  | IEC 60794-1-2, Section 10 |
| Impact                        | 2.17 ft lb                            |  | 2.94 N-m                  |
| Impact Test Method            | FOTP-25                               |  | IEC 60794-1-2, Section 8  |
| Strain                        | See long 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

|                               |                                      |  |                           |
|-------------------------------|--------------------------------------|--|---------------------------|
| 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 |
| 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 |

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## Included Products

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