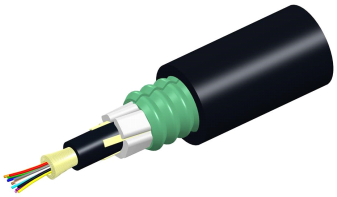
# 760217760 | Z-012-DA-8G-F12BK/30D



Indoor/Outdoor Low Smoke Zero Halogen Single Jacket Single Armor Arid-Core Drop Cable

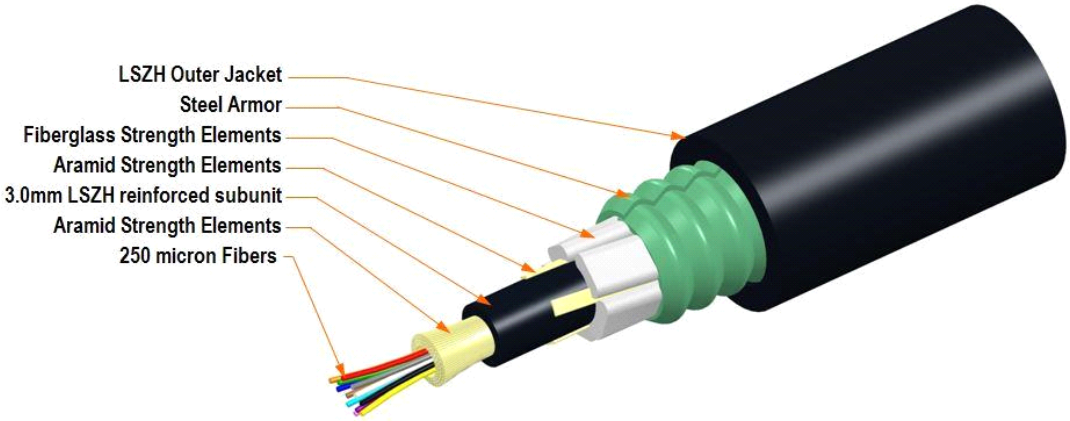
## Product Classification

| | |
|---|---|
| **Portfolio** | CommScope® |
| **Product Type** | Fiber drop cable |
| **Regional Availability** | Asia \| Australia/New Zealand \| EMEA \| Latin America \| North America |

## Standards And Qualifications

| | |
|---|---|
| **Cable Qualification Standards** | ANSI/ICEA S-110-717 |

## Representative Image




## General Specifications

| | |
|---|---|
| **Cable Type** | Riser rated low smoke |
| **Construction Type** | Armored |
| **Subunit Type** | Gel-free |

## Construction Materials

| | |
|---|---|
| **Fiber Type Solution** | G.657.A2/B2 |
| **Jacket Material** | Low Smoke Zero Halogen (LSZH) |
| **Total Fiber Count** | 12 |
| **Armor Type** | Corrugated steel |

| | |
|---|---|
| **Fiber Type** | G.657.A2/B2 |
| **Fiber Type, quantity** | 12 |
| **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** | 76.0 kg/km |
| **Diameter Over Jacket** | 7.40 mm \| 0.29 in |
| **Subunit, quantity** | 1 |

## Physical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 11.1 cm \| 4.4 in |
| **Minimum Bend Radius, unloaded** | 7.4 cm \| 2.9 in |
| **Tensile Load, long term, maximum** | 334 N \| 75 lbf |
| **Tensile Load, short term, maximum** | 1112 N \| 250 lbf |
| **Vertical Rise, maximum** | 452.0 m \| 1482.9 ft |

## Flame Test Specifications

| | |
|---|---|
| **Flame Test Listing** | NEC OFCR-LS (ETL) and c(ETL) |
| **Flame Test Method** | UL 1666 |

## Environmental Specifications

| | |
|---|---|
| **Environmental Space** | Aerial, lashed \| Buried \| Low Smoke Zero Halogen (LSZH) \| Riser |
| **Installation Temperature** | -30 °C to +60 °C (-22 °F to +140 °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** | 10 N/mm |
| **Compression Test Method** | FOTP-41 \| IEC 60794-1 E3 |
| **Flex** | 35 cycles |
| **Flex Test Method** | FOTP-104 \| IEC 60794-1 E6 |
| **Impact** | 2.21 N-m \| 1.63 ft lb |
| **Impact Test Method** | FOTP-25 \| IEC 60794-1 E4 |
| **Strain** | See long and short term tensile loads |
| **Strain Test Method** | FOTP-33 \| IEC 60794-1 E1 |

| | |
|---|---|
| **Twist** | 10 cycles |
| **Twist Test Method** | FOTP-85 \| IEC 60794-1 E7 |
| **Water Penentration** | 24 h |
| **Water Penentration Test Method** | FOTP-82 \| IEC 60794-1 F5 |

## Environmental Test Specifications

| | |
|---|---|
| **Cable Freeze** | -2 °C \| 28 °F |
| **Cable Freeze Test Method** | FOTP-98 \| IEC 60794-1 F15 |
| **Heat Age Test Method** | IEC 60794-1 F9 |
| **Low High Bend** | -20 °C to +60 °C (-4 °F to +140 °F) |
| **Low High Bend Test Method** | FOTP-37 \| IEC 60794-1 E11 |
| **Temperature Cycle** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Temperature Cycle Test Method** | FOTP-3 \| IEC 60794-1 F1 |

## Regulatory Compliance/Certifications

| **Agency** | **Classification** |
|---|---|
| RoHS 2011/65/EU | Compliant |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## Included Products

CS-8G-LT (Product Component—not orderable) — Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

## * Footnotes

**Operating Temperature** Specification applicable to non-terminated bulk fiber cable

Enhanced Low Macrobending, Zero Water Peak, Dispersion-Unshifted Singlemode Fiber (ITU-T G.657.A2, B2)

## Product Classification

| | |
|---|---|
| **Portfolio** | CommScope® |
| **Product Type** | Optical fiber |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **Standards Compliance** | ITU-T G.657.A2 \| ITU-T G.657.B2 |
| **Attenuation, maximum** | 0.25 dB/km @ 1,550 nm \| 0.33 dB/km @ 1,385 nm \| 0.36 dB/km @ 1,310 nm |
| **Dispersion, maximum** | 18 ps(nm-km) at 1550 nm \| 3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| **Mode Field Diameter** | 8.8 µm @ 1,310 nm \| 9.9 µm @ 1,550 nm |
| **Mode Field Diameter Tolerance** | ±0.4 µm @ 1310 nm \| ±0.5 µm @ 1550 nm |
| **Index of Refraction** | 1.467 @ 1,310 nm \| 1.467 @ 1,385 nm \| 1.468 @ 1,550 nm |
| **Polarization Mode Dispersion Link Design Value, maximum** | 0.06 ps/sqrt(km) |

## Physical Specifications

| | |
|---|---|
| **Cladding Diameter** | 125.0 µm |
| **Cladding Diameter Tolerance** | ±0.7 µm |
| **Cladding Non-Circularity, maximum** | 0.7 % |
| **Coating Diameter (Colored)** | 254 µm |
| **Coating Diameter (Uncolored)** | 240 µm |
| **Coating Diameter Tolerance (Colored)** | ±7 µm |
| **Coating Diameter Tolerance (Uncolored)** | ±5 µm |
| **Coating/Cladding Concentricity Error, maximum** | 12 µm |
| **Core/Clad Offset, maximum** | 0.5 µm |

## Optical Specifications, General

| | |
|---|---|
| **Cabled Cutoff Wavelength, maximum** | 1260 nm |
| **Point Defects, maximum** | 0.10 dB |
| **Zero Dispersion Slope, maximum** | 0.092 ps/[km-nm-nm] |
| **Zero Dispersion Wavelength, maximum** | 1322 nm |
| **Zero Dispersion Wavelength, minimum** | 1302 nm |

## Mechanical Specifications

| | |
|---|---|
| **Coating Strip Force, maximum** | 8.9 N \| 2.0 lbf |
| **Coating Strip Force, minimum** | 1.3 N \| 0.3 lbf |

| | |
|---|---|
| **Dynamic Fatigue Parameter, minimum** | 20 |
| **Fiber Curl, minimum** | 4.0 m \| 13.1 ft |
| **Macrobending, 15 mm mandrel, 1 turn** | 0.50 dB @ 1,550 nm \| 1.00 dB @ 1,625 nm |
| **Macrobending, 20 mm mandrel, 1 turn** | 0.10 dB @ 1,550 nm \| 0.20 dB @ 1,625 nm |
| **Macrobending, 30 mm mandrel, 10 turns** | 0.03 dB @ 1,550 nm \| 0.10 dB @ 1,625 nm |
| **Proof Test** | 689.48 N/mm² \| 100000.00 psi |

## Environmental Specifications

| | |
|---|---|
| **Heat Aging, maximum** | 0.05 dB/km @ 85 °C |
| **Temperature Dependence, maximum** | 0.05 dB/km |
| **Temperature Humidity Cycling, maximum** | 0.05 dB/km |
| **Water Immersion, maximum** | 0.05 dB/km @ 23 °C |

## Regulatory Compliance/Certifications

| **Agency** | **Classification** |
|---|---|
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |

## * Footnotes

| | |
|---|---|
| **Temperature Dependence, maximum** | Temperature dependence is conducted at -60 °C to +85 °C (-76 °F to +185 °F) |
| **Temperature Humidity Cycling, maximum** | Temperature humidity cycling is conducted at -10 °C to +85 °C (+14 °F to +185 °F) up to 95% relative humidity |