# 760254724  |  C-008-CA-8W-M08BK/28G/GRP/D

Indoor/Outdoor Low Smoke Zero Halogen, TeraSPEED® Central Loose Tube, GRP Armoured Fiber Optic Cable, 8-fiber, Singlemode OS2, Gel-free, black. Provides Rodent Resistance.

## Product Classification

| | |
|---|---|
| **Regional Availability** | Australia/New Zealand   \|   EMEA |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber indoor/outdoor cable |
| **Product Series** | C-CA |

## General Specifications

| | |
|---|---|
| **Armor Type** | Non-metallic rods |
| **Cable Type** | Loose tube |
| **Subunit Type** | Gel-filled |
| **Filler, quantity** | 1 |
| **Jacket Color** | Black |
| **Jacket Marking** | Meters |
| **Jacket Marking Method** | Inkjet |
| **Jacket Marking Text** | COMMSCOPE GB OPTICAL CABLE 760254724 EXT GRP ARMOUR 8X9 /125 OS2 (Serial NUMBER) (METRE MARK) |
| **Fibers per Subunit, quantity** | 8 |
| **Total Fiber Count** | 8 |

## Dimensions

| | |
|---|---|
| **Cable Length** | 2000 m   \|   6,561.68 ft |
| **Diameter Over Jacket** | 9 mm   \|   0.354 in |

## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 228.6 mm   \|   9 in |
| **Minimum Bend Radius, unloaded** | 175.3 mm   \|   6.902 in |
| **Tensile Load, long term, maximum** | 750 N   \|   168.607 lbf |
| **Tensile Load, short term, maximum** | 2002 N   \|   450.068 lbf |

## Optical Specifications

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| | |
|---|---|
| **Fiber Type** | OS2 |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **Attenuation, maximum** | 0.35 dB/km @ 1,300 nm   |   0.35 dB/km @ 1,550 nm   |   0.45 dB/km @ 1,310 nm |
| **Standards Compliance** | IEC 60794-1   |   TIA-492CAAB (OS2) |

## Environmental Specifications

| | |
|---|---|
| **Installation temperature** | -5 °C to +50 °C (+23 °F to +122 °F) |
| **Operating Temperature** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Storage Temperature** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Environmental Space** | Low Smoke Zero Halogen (LSZH) |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 94 kg/km   |   63.165 lb/kft |

## Included Products

| | | |
|---|---|---|
| CS-8W-LT | – | TeraSPEED® G652D/G657A1 Singlemode Fiber |

## * Footnotes

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

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TeraSPEED® G652D/G657A1 Singlemode Fiber

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## Product Classification

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

## General Specifications

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|---|---|
| **Cladding Diameter** | 125 µm |
| **Cladding Diameter Tolerance** | ±0.7 µm |
| **Cladding Non-Circularity, maximum** | 0.7 % |
| **Coating Diameter (Colored)** | 249 µm |
| **Coating Diameter (Uncolored)** | 242 µm |
| **Coating Diameter Tolerance (Colored)** | ±13 µm |
| **Coating Diameter Tolerance (Uncolored)** | ±5 µm |
| **Coating/Cladding Concentricity Error, maximum** | 12 µm |
| **Core Diameter** | 8.3 µm |
| **Core/Clad Offset, maximum** | 0.5 µm |
| **Proof Test** | 689.476 N/mm²  \|  100000 psi |

## Dimensions

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|---|---|
| **Fiber Curl, minimum** | 4 m  \|  13.123 ft |

## Mechanical Specifications

| | |
|---|---|
| **Macrobending, 20 mm Ø mandrel, 1 turn** | 0.75 dB @ 1,550 nm  \|  1.50 dB @ 1,625 nm |
| **Macrobending, 30 mm Ø mandrel, 10 turns** | 0.25 dB @ 1,550 nm  \|  1.00 dB @ 1,625 nm |
| **Macrobending, 60 mm Ø mandrel, 100 turns** | 0.05 dB @ 1,550 nm  \|  0.05 dB @ 1,625 nm |
| **Coating Strip Force, maximum** | 8.9 N  \|  2.001 lbf |

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# CS-8W-LT

| | |
|---|---|
| **Coating Strip Force, minimum** | 1.3 N  \|  0.292 lbf |
| **Dynamic Fatigue Parameter, minimum** | 20 |

## Optical Specifications

| | |
|---|---|
| **Cabled Cutoff Wavelength, maximum** | 1260 nm |
| **Point Defects, maximum** | 0.1 dB |
| **Zero Dispersion Slope, maximum** | 0.092 ps/[km-nm-nm] |
| **Zero Dispersion Wavelength, maximum** | 1324 nm |
| **Zero Dispersion Wavelength, minimum** | 1300 nm |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **Attenuation, maximum** | 0.22 dB/km @ 1,550 nm   \|   0.25 dB/km @ 1,490 nm   \|   0.25 dB/km @ 1,625 nm   \|   0.36 dB/km @ 1,310 nm   \|   0.36 dB/km @ 1,385 nm |
| **Attenuation, typical** | 0.19 dB/km @ 1,550 nm   \|   0.33 dB/km @ 1,310 nm |
| **Backscatter Coefficient** | -79.6 dB @ 1,310 nm   \|   -82.1 dB @ 1,550 nm |
| **Dispersion, maximum** | 18 ps(nm-km) at 1550 nm   \|   3.5 ps(nm-km) from 1285 nm to 1330 nm at 1310 nm |
| **Index of Refraction** | 1.467 @ 1,310 nm   \|   1.467 @ 1,385 nm   \|   1.468 @ 1,550 nm |
| **Mode Field Diameter** | 10.4 µm @ 1,550 nm   \|   9.2 µm @ 1,310 nm   \|   9.6 µm @ 1,385 nm |
| **Mode Field Diameter Tolerance** | ±0.4 µm @ 1310 nm   \|   ±0.5 µm @ 1550 nm   \|   ±0.6 µm @ 1385 nm |
| **Polarization Mode Dispersion Link Design Value, maximum** | 0.04 ps/sqrt(km) |
| **Standards Compliance** | IEC 60793-2-10, edition 6, model A1a.4   \|   ITU-T G.652.D   \|   ITU-T G.657.A1   \|   TIA-492CAAB (OS2) |

## 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** |
|---|---|

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# CS-8W-LT

## * 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 |

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