



Fiber indoor/outdoor cable, LightScope ZWP® High Tensile Strength, LSZH, Singlemode G.652.D and G.657.A1, 24 fiber, Mini All-Dielectric Single Jacket, Gel-Filled, Stranded Loose Tube, Black jacket color, Dca flame rating, Provides Rodent Resistance

Product Classification

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

General Specifications

| | |
|-------------------------------------|---|
| Cable Type | Stranded loose tube |
| Construction Type | Non-armored |
| Subunit Type | Gel-filled |
| Filler, quantity | 4 |
| Jacket Color | Black |
| Jacket Marking | Meters |
| Jacket Marking Method | Inkjet |
| Jacket Marking Text | COMMSCOPE GB OPTICAL CABLE 810009766 /DB 24X OS2 SM LSZH EN50575 CLASS D [SERIAL NUMBER] [METER MARK] |
| Subunit, quantity | 2 |
| Fibers per Subunit, quantity | 12 |
| Total Fiber Count | 24 |

Dimensions

| | |
|-------------------------------------|--------------------|
| Buffer Tube/Subunit Diameter | 2 mm 0.079 in |
| Diameter Over Jacket | 12.8 mm 0.504 in |

Mechanical Specifications

| | |
|---|----------------------|
| Minimum Bend Radius, loaded | 193 mm 7.598 in |
| Minimum Bend Radius, unloaded | 128 mm 5.039 in |
| Tensile Load, long term, maximum | 1350 N 303.492 lbf |

810009766/DB | C-024-LN-8W-M12BK/20G/HTS /D

| | |
|--|---------------------------------------|
| Tensile Load, short term, maximum | 4500 N 1,011.641 lbf |
| Compression | 22 N/mm 125.623 lb/in |
| Compression Test Method | IEC 60794-1 E3 |
| Flex | 25 cycles |
| Flex Test Method | IEC 60794-1 E6 |
| Impact | 4.41 N-m 39.032 in lb |
| Impact Test Method | IEC 60794-1 E4 |
| Strain | See long and short term tensile loads |
| Strain Test Method | IEC 60794-1 E1 |
| Twist | 10 cycles |
| Twist Test Method | IEC 60794-1 E7 |
| Vertical Rise, maximum | 816 m 2,677.165 ft |

Optical Specifications

| | |
|-------------------|----------------------------------|
| Fiber Type | G.652.D and G.657.A1, TeraSPEED® |
|-------------------|----------------------------------|

Environmental Specifications

| | |
|---|---|
| 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) |
| Cable Qualification Standards | EN 187105 IEC 60794-1-2 |
| EN50575 CPR Cable EuroClass Fire Performance | Dca |
| EN50575 CPR Cable EuroClass Smoke Rating | s2 |
| EN50575 CPR Cable EuroClass Droplets Rating | d0 |
| EN50575 CPR Cable EuroClass Acidity Rating | a1 |
| Environmental Space | Aerial, lashed Buried Low Smoke Zero Halogen (LSZH) |
| Flame Test Method | IEC 60332-1-2 IEC 60754-2 IEC 61034-2 |
| Jacket UV Resistance | UV stabilized |
| Water Penetration | 24 h |
| Water Penetration Test Method | FOTP-82 IEC 60794-1 F5 |

Environmental Test Specifications

| | |
|---------------------|-----------------|
| Cable Freeze | -2 °C 28.4 °F |
|---------------------|-----------------|

810009766/DB | C-024-LN-8W-M12BK/20G/HTS /D

| | |
|--------------------------------------|--------------------------------------|
| Cable Freeze Test Method | 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 | IEC 60794-1 E11 |
| Temperature Cycle | -40 °C to +70 °C (-40 °F to +158 °F) |
| Temperature Cycle Test Method | IEC 60794-1 F1 |

Packaging and Weights

| | |
|---------------------|----------------------------|
| Cable weight | 180 kg/km 120.954 lb/kft |
|---------------------|----------------------------|

Included Products

CS-8W-250-EMEA – LightScope ZWP® Singlemode Fiber
250um

* Footnotes

Operating Temperature Specification applicable to non-terminated bulk fiber cable