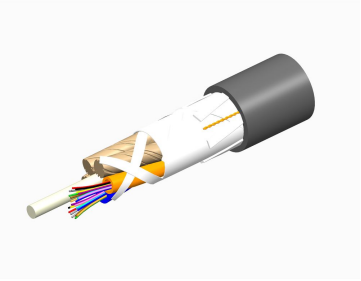
# 760255664 | P-012-LN-5G-F12BK/25D



Fiber indoor/outdoor cable, LazrSPEED®, Single Jacket All-Dielectric, Plenum Rated, , 12 fiber multimode OM5, Gel-Free, Stranded Loose Tube, PVDF jacket, Black jacket color, Feet cable marking

## Product Classification

| | |
|---|---|
| **Regional Availability** | Asia \| Australia/New Zealand \| Latin America \| Middle East /Africa \| North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber indoor/outdoor cable |
| **Product Series** | P-LN |

## General Specifications

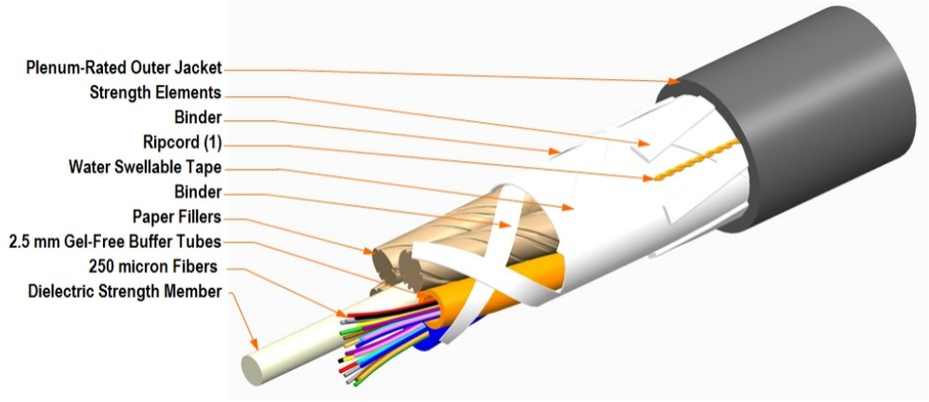
| | |
|---|---|
| **Cable Type** | Stranded loose tube |
| **Construction Type** | Non-armored |
| **Subunit Type** | Gel-free |
| **Filler, quantity** | 4 |
| **Jacket Color** | Black |
| **Jacket Marking** | Feet |
| **Subunit, quantity** | 1 |
| **Fibers per Subunit, quantity** | 12 |
| **Total Fiber Count** | 12 |

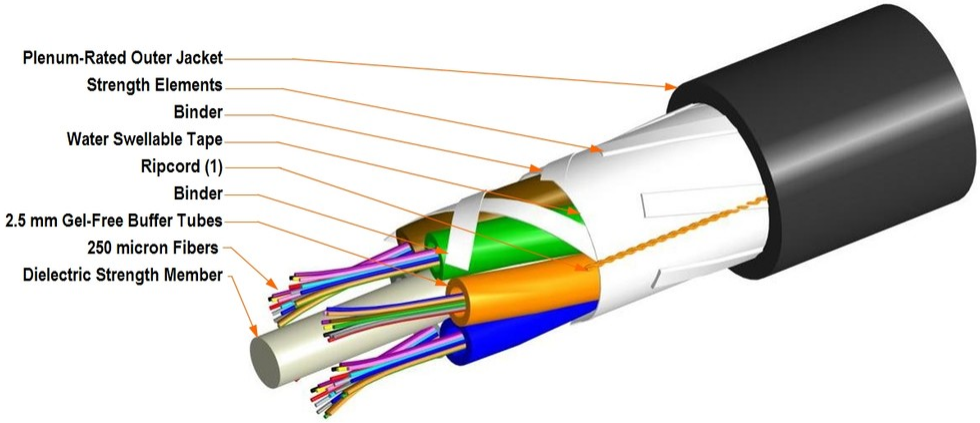
## Dimensions

| | |
|---|---|
| **Buffer Tube/Subunit Diameter** | 2.5 mm \| 0.098 in |
| **Diameter Over Jacket** | 9.7 mm \| 0.382 in |

## Representative Image

# 760255664 | P-012-LN-5G-F12BK/25D




## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 145 mm \| 5.709 in |
| **Minimum Bend Radius, unloaded** | 96.5 mm \| 3.799 in |
| **Tensile Load, long term, maximum** | 800 N \| 179.847 lbf |
| **Tensile Load, short term, maximum** | 2700 N \| 606.984 lbf |
| **Compression** | 22 N/mm \| 125.623 lb/in |
| **Compression Test Method** | FOTP-41 \| IEC 60794-1 E3 |
| **Flex** | 25 cycles |
| **Flex Test Method** | FOTP-104 \| IEC 60794-1 E6 |
| **Impact** | 2.94 N-m \| 26.021 in 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 |
| **Vertical Rise, maximum** | 880 m \| 2,887.139 ft |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | OM5, LazrSPEED® wideband |

## Environmental Specifications

| | |
|---|---|
| **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) |
| **Cable Qualification Standards** | ANSI/ICEA S-104-696 \| EN 187105 \| Telcordia GR-409 |
| **Environmental Space** | Plenum |
| **Flame Test Listing** | NEC OFNP (ETL) and c(ETL) |
| **Flame Test Method** | NFPA 130 \| NFPA 262 |
| **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 |
| **Cable Freeze Test Method** | FOTP-98 \| 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** | FOTP-37 \| IEC 60794-1 E11 |
| **Temperature Cycle** | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Temperature Cycle Test Method** | FOTP-3 \| IEC 60794-1 F1 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 92 kg/km \| 61.821 lb/kft |

## Included Products

| | |
|---|---|
| CS-5G-LT | – LazrSPEED® OM5 WideBand Multimode Fiber |

## * Footnotes

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

# CS-5G-LT

LazrSPEED® OM5 WideBand Multimode Fiber

## LazrSPEED® 550

### Product Classification

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

### General Specifications

| | |
|---|---|
| **Cladding Diameter** | 125 µm |
| **Cladding Diameter Tolerance** | ±0.8 µm |
| **Cladding Non-Circularity, maximum** | 0.7 % |
| **Coating Diameter (Colored)** | 254 µm |
| **Coating Diameter (Uncolored)** | 242 µm |
| **Coating Diameter Tolerance (Colored)** | ±7 µm |
| **Coating Diameter Tolerance (Uncolored)** | ±5 µm |
| **Coating/Cladding Concentricity Error, maximum** | 12 µm |
| **Core Diameter** | 50 µm |
| **Core Diameter Tolerance** | ±2.5 µm |
| **Core/Clad Offset, maximum** | 1 µm |
| **Proof Test** | 689.476 N/mm² \| 100000 psi |

### Mechanical Specifications

| | |
|---|---|
| **Macrobending, 15 mm Ø mandrel, 2 turns** | 0.20 dB @ 850 nm \| 0.50 dB @ 1,300 nm |
| **Macrobending, 30 mm Ø mandrel, 2 turns** | 0.10 dB @ 850 nm \| 0.30 dB @ 1,300 nm |
| **Macrobending, 75 mm Ø mandrel, 100 turns** | 0.50 dB @ 1,300 nm \| 0.50 dB @ 850 nm |
| **Coating Strip Force, maximum** | 4.5 N \| 1.012 lbf |
| **Coating Strip Force, minimum** | 0.9 N \| 0.202 lbf |
| **Dynamic Fatigue Parameter, minimum** | 18 |

## Optical Specifications

| | |
|---|---|
| **Numerical Aperture** | 0.2 |
| **Numerical Aperture Tolerance** | ±0.010 |
| **Point Defects, maximum** | 0.15 dB |
| **Zero Dispersion Slope, maximum (OM5)** | -412/(840(1-(λ0/840)^4)) ps/[km-nm-nm] |
| **Zero Dispersion Wavelength, maximum** | 1328 nm |
| **Zero Dispersion Wavelength, minimum** | 1297 nm |

## Optical Specifications, Wavelength Specific

| | |
|---|---|
| **1 Gbps Ethernet Distance** | 1,110 m @ 850 nm \| 600 m @ 1,300 nm |
| **10 Gbps Ethernet Distance** | 550 m @ 850 nm |
| **Attenuation, maximum** | 1.00 dB/km @ 1,300 nm \| 2.20 dB/km @ 953 nm \| 3.00 dB/km @ 850 nm |
| **Bandwidth, Laser, minimum** | 2,600 MHz-km @ 953 nm \| 4,700 MHz-km @ 850 nm \| 500 MHz-km @ 1,300 nm |
| **Bandwidth, OFL, minimum** | 1,950 MHz-km @ 953 nm \| 3,500 MHz-km @ 850 nm \| 500 MHz-km @ 1,300 nm |
| **Index of Refraction** | 1.478 @ 1,300 nm \| 1.483 @ 850 nm |
| **Standards Compliance** | ANSI/TIA-568.3-D wideband multimode fiber cable \| IEC 60793-2-10, edition 6, model A1a.4 \| ISO 11801-1 cabled optical fiber performance category OM5 \| TIA-492AAAE (OM5) |

## Environmental Specifications

| | |
|---|---|
| **Heat Aging, maximum** | 0.10 dB/km @ 85 °C |
| **Temperature Dependence, maximum** | 0.1 dB/km |
| **Temperature Humidity Cycling, maximum** | 0.1 dB/km |
| **Water Immersion, maximum** | 0.10 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