# 760172478   |   P-048-DZ-CM-FMUAQ/8W024 /5K024

Fiber indoor cable, TeraSPEED® Plenum Distribution, interlocking aluminum armored with plenum jacket, Multimode/Singlemode, 48 fiber multi-unit with 12 fiber subunits, gel-free, Feet jacket marking, Aqua jacket color

## Product Classification

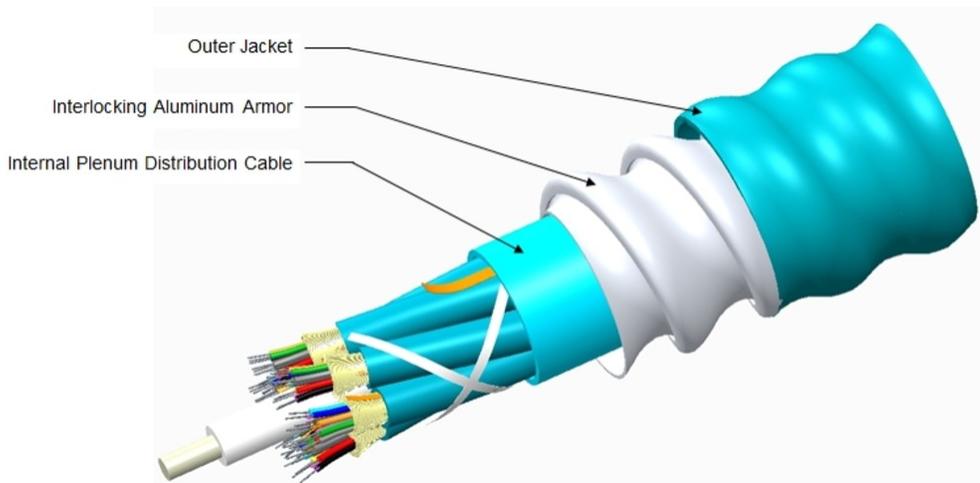| | |
|---|---|
| **Regional Availability** | Asia   \|   Australia/New Zealand   \|   Latin America   \|   Middle East /Africa   \|   North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber indoor cable |
| **Product Series** | P-DZ |

## General Specifications

| | |
|---|---|
| **Armor Type** | Interlocking aluminum |
| **Cable Type** | Distribution |
| **Construction Type** | Armored |
| **Subunit Type** | Gel-free |
| **Jacket Color** | Aqua |
| **Jacket Marking** | Feet |
| **Subunit, quantity** | 4 |
| **Fibers per Subunit, quantity** | 12 |
| **Composite Fiber Count** | 24 + 24 |
| **Total Fiber Count** | 48 |

## Dimensions

| | |
|---|---|
| **Buffer Tube/Subunit Diameter** | 5.77 mm   \|   0.227 in |
| **Diameter Over Armor** | 20.96 mm   \|   0.825 in |
| **Diameter Over Jacket** | 23 mm   \|   0.906 in |

## Representative Image

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## Mechanical Specifications

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 345 mm  |  13.583 in |
| **Minimum Bend Radius, unloaded** | 230 mm  |  9.055 in |
| **Tensile Load, long term, maximum** | 400 N  |  89.924 lbf |
| **Tensile Load, short term, maximum** | 1335 N  |  300.12 lbf |
| **Compression** | 85 N/mm  |  485.363 lb/in |
| **Compression Test Method** | FOTP-41  |  IEC 60794-1 E3 |
| **Flex** | 25 cycles |
| **Flex Test Method** | FOTP-104  |  IEC 60794-1 E6 |
| **Impact** | 35 N-m  |  309.776 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** | 91 m  |  298.556 ft |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | Composite MM/SM  |  G.652.D and G.657.A1, TeraSPEED®  |  OM4, LazrSPEED® 550 |

## Environmental Specifications

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| | |
|---|---|
| **Installation temperature** | 0 °C to +70 °C (+32 °F to +158 °F) |
| **Operating Temperature** | -20 °C to +70 °C (-4 °F to +158 °F) |
| **Storage Temperature** | -40 °C to +70 °C (-40 °F to +158 °F) |
| **Cable Qualification Standards** | ANSI/ICEA S-83-596  |  Telcordia GR-409 |
| **Environmental Space** | Plenum |
| **Flame Test Listing** | NEC OFCP (ETL) and c(ETL) |
| **Flame Test Method** | NFPA 130  |  NFPA 262 |

## Environmental Test Specifications

| | |
|---|---|
| **Heat Age** | -20 °C to +85 °C (-4 °F to +185 °F) |
| **Heat Age Test Method** | IEC 60794-1 F9 |
| **Low High Bend** | -20 °C to +70 °C (-4 °F to +158 °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 |

## Packaging and Weights

| | |
|---|---|
| **Cable weight** | 449 kg/km  |  301.714 lb/kft |

## Regulatory Compliance/Certifications

| Agency | Classification |
|---|---|
| CHINA-ROHS | Below maximum concentration value |
| ISO 9001:2015 | Designed, manufactured and/or distributed under this quality management system |
| REACH-SVHC | Compliant as per SVHC revision on www.commscope.com/ProductCompliance |
| ROHS | Compliant |
| UK-ROHS | Compliant |

## Included Products

| | | |
|---|---|---|
| CS-5K-TB | – | LazrSPEED® 550 OM4 Bend-Insensitive Multimode Fiber |
| CS-8W-TB | – | TeraSPEED® Singlemode Fiber |

## * Footnotes

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

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