# FDWL8L842
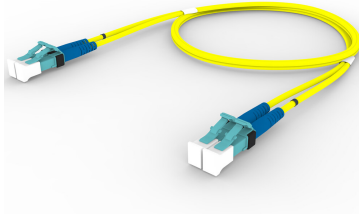
Singlemode LC/UPC Keyed Aqua to LC/UPC Keyed Aqua Fiber Patch Cord, 1.6 mm Duplex, Plenum

## Product Classification

| | |
|---|---|
| **Regional Availability** | Asia | Australia/New Zealand | Europe | Latin America | Middle East /Africa | North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber patch cord, duplex |
| **Product Brand** | SYSTIMAX InstaPATCH® 360 |
| **Product Series** | FDW |
| **Ordering Note** | For lengths greater than 999 ft (304 m), orders must be in meters | Minimum length may vary based on cable configuration |

## General Specifications

| | |
|---|---|
| **Connector A, quantity** | 2 |
| **Color, boot A** | Blue |
| **Color, connector A** | Aqua |
| **Connector B, quantity** | 2 |
| **Color, boot B** | Blue |
| **Color, connector B** | Aqua |
| **Interface, Connector A** | LC/UPC |
| **Interface Feature, connector A** | Keyed |
| **Interface, Connector B** | LC/UPC |
| **Interface Feature, connector B** | Keyed |
| **Jacket Color** | Yellow |
| **Polarity** | Method B |
| **Total Fibers, quantity** | 2 |

## Dimensions

| | |
|---|---|
| **Cable Assembly Length Range (m)** | 1 – 999 |

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| | |
|---|---|
| **Cable Assembly Length Range (ft)** | 1 – 999 |
| **Diameter Over Jacket** | 1.6 mm   \|   0.063 in |

## Ordering Tree

| BASE CODE | - | J | X | . | . | . | . |
|---|---|---|---|---|---|---|---|

| Jacket Color | Breakout Length / Option | UOM | Length |
|---|---|---|---|
| J   Yellow | X   No breakout | F   Feet | |
| | | M   Meter | |

## Mechanical Specifications

| | |
|---|---|
| **Cable Retention Strength, maximum** | 11.24 lb @ 0 °   \|   4.40 lb @ 90 ° |

## Optical Specifications

| | |
|---|---|
| **Fiber Mode** | Singlemode |
| **Fiber Type** | G.652.D   \|   G.657.A1, TeraSPEED® |

## Environmental Specifications

| | |
|---|---|
| **Operating Temperature** | -10 °C to +60 °C (+14 °F to +140 °F) |
| **Environmental Space** | Plenum |

## Regulatory Compliance/Certifications

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

## Included Products

| | | |
|---|---|---|
| 760102806<br>SDC-LCR-16-KAQ | – | TeraSPEED® Pre-Radiused Keyed LC Connector for 1.6 mm Fiber, duplex Singlemode, aqua |
| P-002-ZC-8W-F16 | – | Fiber indoor cable, TeraSPEED® 1.6mm Plenum Zipcord, 2 fiber, Singlemode G.652.D and G.657.A1, Feet jacket marking |

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# 760102806 | SDC-LCR-16-KAQ

TeraSPEED® Pre-Radiused Keyed LC Connector for 1.6 mm Fiber, duplex Singlemode, aqua

## Product Classification

| | |
|---|---|
| **Regional Availability** | Asia | Australia/New Zealand | EMEA | Latin America | North America |
| **Portfolio** | CommScope® |
| **Product Type** | Fiber connector |
| **Product Brand** | TeraSPEED® |

## General Specifications

| | |
|---|---|
| **Body Style** | Duplex |
| **Color** | Aqua |
| **Ferrule Geometry** | Pre-radiused |
| **Interface** | LC/UPC |
| **Interface Feature** | Keyed |

## Dimensions

| | |
|---|---|
| **Length** | 52 mm | 2.047 in |
| **Compatible Cable Diameter** | 1.6 mm | 0.063 in |

## Material Specifications

| | |
|---|---|
| **Ferrule Material** | Zirconia |

## Mechanical Specifications

| | |
|---|---|
| **Cable Retention Strength, maximum** | 11.24 lb @ 0 ° |

## Optical Specifications

| | |
|---|---|
| **Fiber Type** | G.652.D and G.657.A1, TeraSPEED® | OS2 |
| **Insertion Loss Change, mating** | 0.3 dB |

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| | |
|---|---|
| **Optical Components Standard** | ANSI/TIA-568-C.3 |
| **Insertion Loss Change, temperature** | 0.3 dB |
| **Insertion Loss, typical** | 0.2 dB |
| **Return Loss, minimum** | 50 dB |

## Packaging and Weights

| | |
|---|---|
| **Packaging quantity** | 2 |

## 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 |

## * Footnotes

| | |
|---|---|
| **Insertion Loss Change, mating** | TIA-568: Maximum insertion loss change after 500 matings |
| **Insertion Loss Change, temperature** | Maximum insertion loss change from -10 °C to +60 °C (+14 °F to +140 °F) |

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# P-002-ZC-8W-F16

Fiber indoor cable, TeraSPEED® 1.6mm Plenum Zipcord, 2 fiber, Singlemode G.652.D and G.657.
A1, Feet jacket marking

## 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-ZC |

## General Specifications

| | |
|---|---|
| **Cable Type** | Cordage |
| **Construction Type** | Non-armored |
| **Subunit Type** | Gel-free |
| **Jacket Marking** | Feet |
| **Total Fiber Count** | 2 |

## Dimensions

| | |
|---|---|
| **Height Over Jacket** | 1.7 mm | 0.067 in |
| **Width Over Jacket** | 3.5 mm | 0.138 in |

## Representative Image



## Mechanical Specifications

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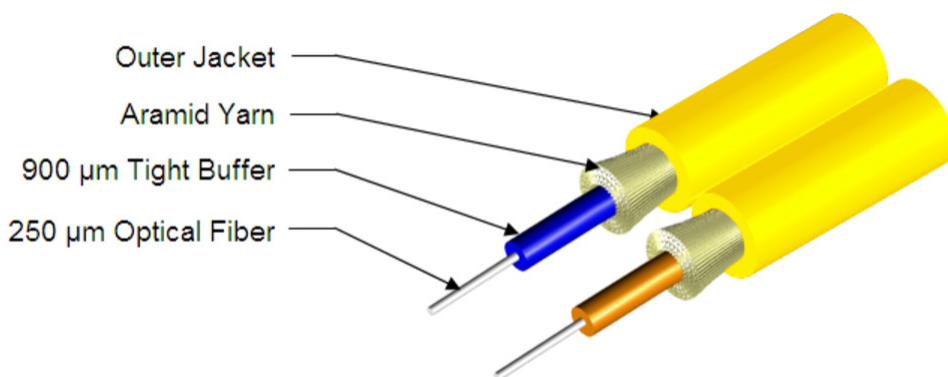
# P-002-ZC-8W-F16

| | |
|---|---|
| **Minimum Bend Radius, loaded** | 38 mm  \|  1.496 in |
| **Minimum Bend Radius, unloaded** | 15 mm  \|  0.591 in |
| **Tensile Load, long term, maximum** | 53 N  \|  11.915 lbf |
| **Tensile Load, short term, maximum** | 178 N  \|  40.016 lbf |
| **Compression** | 10 N/mm  \|  57.101 lb/in |
| **Compression Test Method** | FOTP-41  \|  IEC 60794-1 E3 |
| **Flex** | 300 cycles |
| **Flex Test Method** | FOTP-104  \|  IEC 60794-1 E6 |
| **Impact** | 0.74 N-m  \|  6.55 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** | 500 m  \|  1,640.42 ft |

## Optical Specifications

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

## Environmental Specifications

| | |
|---|---|
| **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 OFNP (ETL) and c(ETL) |
| **Flame Test Method** | 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 |

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| | |
|---|---|
| **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** | 6 kg/km   \|   4.032 lb/kft |

## Regulatory Compliance/Certifications

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

## * Footnotes

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

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