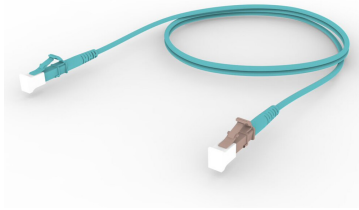


# FDXL8LC21

## Base Product



OM4 LC/UPC Keyed Aqua to LC/UPC Fiber Patch Cord, 1.6 mm Simplex, Plenum

## Product Classification

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

## General Specifications

|                                       |          |
|---------------------------------------|----------|
| <b>Color, boot A</b>                  | Aqua     |
| <b>Color, connector A</b>             | Aqua     |
| <b>Color, boot B</b>                  | Aqua     |
| <b>Color, connector B</b>             | Black    |
| <b>Interface, Connector A</b>         | LC/UPC   |
| <b>Interface Feature, connector A</b> | Keyed    |
| <b>Interface, Connector B</b>         | LC/UPC   |
| <b>Jacket Color</b>                   | Aqua     |
| <b>Polarity</b>                       | Method B |
| <b>Total Fibers, quantity</b>         | 1        |

## Dimensions

|   |                   |
|---|-------------------|
| <b>Cable Assembly Length Range (m)</b>  | 1 – 999           |
| <b>Cable Assembly Length Range (ft)</b> | 1 – 999           |
| <b>Diameter Over Jacket</b>             | 1.6 mm   0.063 in |

# FDXL8LC21

## Ordering Tree



## Mechanical Specifications

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

## Optical Specifications

**Fiber Mode** Multimode

**Fiber Type** OM4, LazrSPEED®

## Environmental Specifications

**Operating Temperature** -10 °C to +60 °C (+14 °F to +140 °F)

**Environmental Space** Plenum

## Regulatory Compliance/Certifications

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

## Included Products

- |                             |  |
|-----------------------------|--|
| 460125172                   | - Pre-Radiused LC Connector simplex for 1.6 mm Fiber, multimode                                    |
| 760102368<br>MFC-LCR-16-KAQ | - LazrSPEED®, OptiSPEED® Pre-Radiused Keyed LC Connector for 1.6 mm Fiber, simplex multimode, aqua |
| P-001-SP-5K-F16             | - Fiber indoor cable, LazrSPEED® 1.6 mm Plenum Simplex, Multimode OM4, Feet jacket marking         |

Pre-Radiused LC Connector simplex for 1.6 mm Fiber, multimode

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber connector   |

## General Specifications

|                         |              |
|-------------------------|--------------|
| <b>Body Style</b>       | Simplex      |
| <b>Color</b>            | Beige        |
| <b>Ferrule Geometry</b> | Pre-radiused |
| <b>Interface</b>        | LC/UPC       |

## Dimensions

|                                  |                   |
|----------------------------------|-------------------|
| <b>Length</b>                    | 50.3 mm   1.98 in |
| <b>Compatible Cable Diameter</b> | 1.6 mm   0.063 in |

## Material Specifications

|                         |          |
|-------------------------|----------|
| <b>Ferrule Material</b> | Zirconia |
|-------------------------|----------|

## Mechanical Specifications

|  |                |
|--|----------------|
| <b>Cable Retention Strength, maximum</b> | 11.24 lb @ 0 ° |
|--|----------------|

## Optical Specifications

|   |                  |
|---|------------------|
| <b>Fiber Mode</b>                         | Multimode        |
| <b>Insertion Loss Change, mating</b>      | 0.3 dB           |
| <b>Optical Components Standard</b>        | ANSI/TIA-568-C.3 |
| <b>Insertion Loss Change, temperature</b> | 0.3 dB           |
| <b>Insertion Loss, maximum</b>            | 0.33 dB          |
| <b>Return Loss, minimum</b>               | 27 dB            |

## Packaging and Weights

|                           |   |
|---------------------------|---|
| <b>Packaging quantity</b> | 1 |
|---------------------------|---|

# 460125172

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## Regulatory Compliance/Certifications

**Agency**

ISO 9001:2015

**Classification**

Designed, manufactured and/or distributed under this quality management system

### \* 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)

# 760102368 | MFC-LCR-16-KAQ



LazrSPEED®, OptiSPEED® Pre-Radiused Keyed LC Connector for 1.6 mm Fiber, simplex multimode, aqua

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   EMEA   Latin America   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber connector   |

## General Specifications

|                          |              |
|--------------------------|--------------|
| <b>Body Style</b>        | Simplex      |
| <b>Color</b>             | Aqua         |
| <b>Ferrule Geometry</b>  | Pre-radiused |
| <b>Interface</b>         | LC/UPC       |
| <b>Interface Feature</b> | Keyed        |

## Dimensions

|                                  |                   |
|----------------------------------|-------------------|
| <b>Length</b>                    | 52 mm   2.047 in  |
| <b>Compatible Cable Diameter</b> | 1.6 mm   0.063 in |

## Material Specifications

|                         |          |
|-------------------------|----------|
| <b>Ferrule Material</b> | Zirconia |
|-------------------------|----------|

## Mechanical Specifications

|  |               |
|--|---------------|
| <b>Cable Retention Strength, maximum</b> | 11.24 lb @ 0° |
|--|---------------|

## Optical Specifications

|                                      |                  |
|--------------------------------------|------------------|
| <b>Fiber Mode</b>                    | Multimode        |
| <b>Insertion Loss Change, mating</b> | 0.3 dB           |
| <b>Optical Components Standard</b>   | ANSI/TIA-568-C.3 |

# 760102368 | MFC-LCR-16-KAQ

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|   |        |
|---|--------|
| <b>Insertion Loss Change, temperature</b> | 0.3 dB |
| <b>Insertion Loss, typical</b>            | 0.2 dB |
| <b>Return Loss, minimum</b>               | 50 dB  |

## Packaging and Weights

|                           |   |
|---------------------------|---|
| <b>Packaging quantity</b> | 1 |
|---------------------------|---|

## Regulatory Compliance/Certifications

| <b>Agency</b> | <b>Classification</b>  |
|---------------|--|
| 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 <a href="http://www.commscope.com/ProductCompliance">www.commscope.com/ProductCompliance</a> |
| ROHS          | Compliant  |
| UK-ROHS       | Compliant  |



## \* Footnotes

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

# P-001-SP-5K-F16

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Fiber indoor cable, LazrSPEED® 1.6 mm Plenum Simplex, Multimode OM4, Feet jacket marking

## Product Classification

|                              |   |
|------------------------------|---|
| <b>Regional Availability</b> | Asia   Australia/New Zealand   Latin America   Middle East/Africa   North America |
| <b>Portfolio</b>             | CommScope®  |
| <b>Product Type</b>          | Fiber indoor cable  |
| <b>Product Series</b>        | P-SP  |

## General Specifications

|                          |             |
|--------------------------|-------------|
| <b>Cable Type</b>        | Cordage     |
| <b>Construction Type</b> | Non-armored |
| <b>Subunit Type</b>      | Gel-free    |
| <b>Jacket Marking</b>    | Feet        |
| <b>Total Fiber Count</b> | 1           |

## Dimensions

|                             |                   |
|-----------------------------|-------------------|
| <b>Diameter Over Jacket</b> | 1.7 mm   0.067 in |
|-----------------------------|-------------------|

## Representative Image



## Mechanical Specifications

|                                    |                  |
|------------------------------------|------------------|
| <b>Minimum Bend Radius, loaded</b> | 38 mm   1.496 in |
|------------------------------------|------------------|

# P-001-SP-5K-F16

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|  |                                       |
|--|---------------------------------------|
| <b>Minimum Bend Radius, unloaded</b>     | 15 mm   0.591 in                      |
| <b>Tensile Load, long term, maximum</b>  | 29 N   6.519 lbf                      |
| <b>Tensile Load, short term, maximum</b> | 7 N   1.574 lbf                       |
| <b>Compression</b>                       | 10 N/mm   57.101 lb/in                |
| <b>Compression Test Method</b>           | FOTP-41   IEC 60794-1 E3              |
| <b>Flex</b>                              | 300 cycles                            |
| <b>Flex Test Method</b>                  | FOTP-104   IEC 60794-1 E6             |
| <b>Impact</b>                            | 0.74 N-m   6.55 in lb                 |
| <b>Impact Test Method</b>                | FOTP-25   IEC 60794-1 E4              |
| <b>Strain</b>                            | See long and short term tensile loads |
| <b>Strain Test Method</b>                | FOTP-33   IEC 60794-1 E1              |
| <b>Twist</b>                             | 10 cycles                             |
| <b>Twist Test Method</b>                 | FOTP-85   IEC 60794-1 E7              |
| <b>Vertical Rise, maximum</b>            | 500 m   1,640.42 ft                   |

## Optical Specifications

|                   |   |
|-------------------|---|
| <b>Fiber Type</b> | OM4, LazrSPEED® 550   OM4, LazrSPEED® 550 |
|-------------------|---|

## Environmental Specifications

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

## Environmental Test Specifications

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <b>Heat Age</b>                  | -20 °C to +85 °C (-4 °F to +185 °F) |
| <b>Heat Age Test Method</b>      | IEC 60794-1 F9                      |
| <b>Low High Bend</b>             | -20 °C to +70 °C (-4 °F to +158 °F) |
| <b>Low High Bend Test Method</b> | FOTP-37   IEC 60794-1 E11           |
| <b>Temperature Cycle</b>         | -20 °C to +70 °C (-4 °F to +158 °F) |



# P-001-SP-5K-F16

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**Temperature Cycle Test Method**

FOTP-3 | IEC 60794-1 F1

## Packaging and Weights

**Cable weight**

3 kg/km | 2.016 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