

# Cable Assemblies

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Corning offers the most complete line of connectors and factory terminated cables, from single fibre patch cables to high fibre count assemblies. As the industry's leading supplier of cable assemblies, Corning's state of the art manufacturing process ensures unsurpassed connector performance with products that meet or exceed all industry standards for reflectance and insertion loss. Highly trained and qualified associates thoroughly inspect the incoming fibres and ferrules, assemble and polish them using a carefully monitored and controlled process. The assemblies undergo rigorous performance testing to ensure optimal quality in every connector.

Corning's preterminated assemblies use only high quality Corning optical fibres to ensure total performance quality.



**ST® Compatible to ST Compatible Patch Cord with Metal Bayonet**



**SC APC to SC APC Patch Cord**

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## Specifications

### Single-mode Connector Types

Drawings are not to scale

SC Ultra PC  
Connector Codes 58,72



SC Angled PC  
Connector Codes 44,66



LC Ultra PC  
Connector Codes 02,04



LC Angled PC  
Connector Codes 18, 22



FC Ultra PC  
Connector Code 54



FC Angled PC  
Connector Code 21)



ST Compatible Ultra PC  
Connector Code 83



| Connector Type | Cable Jacket Colour* |        | Connector Boot Colour |       |
|----------------|----------------------|--------|-----------------------|-------|
|                | UPC                  | APC    | UPC                   | APC   |
| SC             | Yellow               | Yellow | Blue                  | Green |
| LC             | Yellow               | Yellow | Blue                  | Green |
| FC             | Yellow               | Yellow | Blue                  | Green |
| ST Compatible  | Yellow               | N/A    | Blue                  | N/A   |
| E2000          | Yellow               | Yellow | Blue                  | Green |

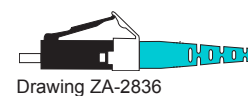
### Multimode Connector Types

Drawings are not to scale

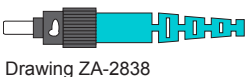
SC PC  
Connector Codes 39, 57



LC PC  
Connector Codes 03, 05



ST Compatible PC  
Connector Code 74



| Connector Type   | Cable Jacket Colour |           | Connector Boot Colour |           |
|------------------|---------------------|-----------|-----------------------|-----------|
|                  | 62.5 µm             | 50 µm     | 62.5 µm               | 50 µm     |
| SCPC             | Orange              | Turquoise | Black                 | Turquoise |
| LCPC             | Orange              | Turquoise | Black                 | Turquoise |
| ST Compatible PC | Orange              | Turquoise | Black                 | Turquoise |
| FCPC             | Orange              | Turquoise | Black                 | Turquoise |
| E2000            | Orange              | Turquoise | Black                 | Black     |

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## Cable Assembly Ordering Matrix

Corning patch cords and high-fibre-count assemblies are ordered using five easy steps. The steps involve the selection of connector(s), fibre count, fibre type, cable, length and unit of measure. The format/steps are listed below.

Note: Begin with smallest connector code.

## Ordering Information

|                                 |                             |                                     |                               |                           |
|---------------------------------|-----------------------------|-------------------------------------|-------------------------------|---------------------------|
| <div>□ □ □ □</div> <div>1</div> | <div>□ □</div> <div>2</div> | <div>□ □ □ □ □ □</div> <div>3</div> | <div>□ □ □</div> <div>4</div> | <div>M</div> <div>5</div> |
|---------------------------------|-----------------------------|-------------------------------------|-------------------------------|---------------------------|

**1** Select connector code.  
00 = No connectors  
(use when ordering a pigtail)

### Multimode

03 = LC simplex PC\*  
05 = LC duplex PC\*  
17 = FC PC  
39 = SC simplex PC  
57 = SC duplex PC  
74 = ST compatible PC metal bayonet

### Single-mode

02 = LC ultra PC simplex\*  
04 = LC ultra PC duplex\*  
18 = LC angled PC duplex\*  
21 = FC angled PC simplex  
22 = LC angled PC simplex\*  
44 = SC angled PC simplex  
54 = FC ultra PC simplex  
58 = SC ultra PC simplex  
72 = SC ultra PC duplex  
83 = ST compatible ultra PC metal bayonet

See Notes 1 and 2.

**2** Select fibre count.  
01-24  
See Note 3.

**3** Select cable code based on construction and fibre type.  
See Table A.

**4** Select cable assembly length.  
001-999  
See Note 4.

**5** Defines unit of measure.  
M = Meters

### Notes:

- 1) Select connector code based on type of adapter used at the patch panel and the electronic interface connector. Always use the lowest code first when constructing the part number.
- 2) Available on 1.8, 2.0 mm and 900 µm cable types only (\*).
- 3) For Ultra in ivory color of the cable jacket, use -IV at the end of catalogue number.
- 4) For lengths greater than 100m, contact a Corning Customer Care Representative.

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## Connector specifications |

### Multimode Connectors

| Type             | Code | Max. Insertion Loss (dB)<br>50/125 µm<br>62.5/125 µm | Ferrule | Housing           |
|------------------|------|------------------------------------------------------|---------|-------------------|
| LC PC Simplex    | 03   | 0.50                                                 | Ceramic | Composite         |
| LC PC Duplex     | 05   | 0.50                                                 | Ceramic | Composite         |
| FC PC Simplex    | 17   | 0.50                                                 | Ceramic | Composite         |
| SC PC Simplex    | 39   | 0.50                                                 | Ceramic | Composite         |
| SC PC Duplex     | 57   | 0.50                                                 | Ceramic | Composite         |
| ST Compatible PC | 74   | 0.50                                                 | Ceramic | Aluminum / Nickel |

### Single-mode Connectors

| Type              | Code | Max. Insertion Loss (dB) | Max. Reflectance (dB) | Ferrule | Housing           |
|-------------------|------|--------------------------|-----------------------|---------|-------------------|
| LC Simplex UPC    | 02   | 0.25                     | -55                   | Ceramic | Composite         |
| LC Duplex UPC     | 04   | 0.25                     | -55                   | Ceramic | Composite         |
| LC Duplex APC     | 18   | 0.25                     | -65                   | Ceramic | Composite         |
| LC Simplex APC    | 22   | 0.25                     | -65                   | Ceramic | Composite         |
| SC Simplex UPC    | 58   | 0.40                     | -55                   | Ceramic | Composite         |
| SC Duplex UPC     | 72   | 0.40                     | -55                   | Ceramic | Composite         |
| SC Simplex APC    | 44   | 0.40                     | -65                   | Ceramic | Composite         |
| SC Duplex APC     | 66   | 0.40                     | -65                   | Ceramic | Composite         |
| FC Simplex UPC    | 54   | 0.40                     | -55                   | Ceramic | Brass/Nickel      |
| FC Simplex APC    | 21   | 0.40                     | -65                   | Ceramic | Brass/Nickel      |
| ST Compatible UPC | 83   | 0.40                     | -55                   | Ceramic | Aluminum / Nickel |

# Cable Assemblies

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## Cable Table

| Table A                                          |                                |                              |                              |                              |                            |                                      |                                    |
|--------------------------------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|----------------------------|--------------------------------------|------------------------------------|
| Core Diameter<br>Brand Name<br>Fibre Type/Class  | 62.5 µm<br>ClearCurve<br>(OM1) | 50 µm<br>ClearCurve<br>(OM2) | 50 µm<br>ClearCurve<br>(OM3) | 50 µm<br>ClearCurve<br>(OM4) | 9 µm<br>SMF-28e<br>G.652.D | 9 µm<br>ClearCurve ULTRA<br>G.657.A1 | 9 µm<br>ClearCurve ZBL<br>G.657.B3 |
| Fibre Code                                       | K                              | B                            | T                            | Q                            | R                          | G                                    | U                                  |
| <b>900 µm Buffered Fibre</b>                     |                                |                              |                              |                              |                            |                                      |                                    |
| TB East Strip (150 cm)                           | K4Z41                          | B4Z31                        | T4Z80                        | Q4Z80                        | R4Z31                      | G4Z31                                | U4Z31                              |
| TBIII (15 cm)                                    | K4Z43                          | B4Z33                        | T4Z83                        | Q4Z83                        | R4Z33                      | G4Z33                                |                                    |
| Cable Sheath Color                               | Orange                         | Orange                       | Turquoise                    | Turquoise                    | Yellow                     | Yellow***                            | Ivory                              |
| <b>Flame Classification:</b> FRNC/LSZH, Type B.1 |                                |                              |                              |                              |                            |                                      |                                    |
| <b>Single-fibre cables (1 fibre)</b>             |                                |                              |                              |                              |                            |                                      |                                    |
| 2.9 mm                                           | K3Z41                          | B3Z31                        | T3Z80                        | Q3Z80                        | R3Z31                      | G3Z31                                |                                    |
| 2.0 mm                                           | K2Z41                          | B2Z31                        | T2Z80                        | Q2Z80                        | R2Z31                      | G2Z31                                |                                    |
| 1.6 mm                                           |                                |                              |                              |                              |                            | G3Z16                                |                                    |
| <b>Zipcord Cable (2 fibres) *</b>                |                                |                              |                              |                              |                            |                                      |                                    |
| 2 x 2.9 mm                                       | K5Z41                          | B5Z31                        | T5Z80                        | Q5Z80                        | R5Z31                      | G5Z31                                |                                    |
| 2 x 2.0 mm                                       | K5Z20                          | B5Z20                        | T5Z20                        | Q5Z20                        | R5Z20                      | G5Z20                                |                                    |
| 2 x 1.8 mm (MiniZip)                             | K5Z18                          | B5Z18                        | T5Z18                        | Q5Z18                        | R5Z18                      | G5Z18                                |                                    |
| 1 x 2.9 mm (MiniMIC)                             | K8ZM2                          | B8ZM2                        | T8ZM2                        | Q8ZM2                        | R8ZM2                      | G8ZM2                                |                                    |
| <b>Breakout/Fan-Out Cable **</b>                 |                                |                              |                              |                              |                            |                                      |                                    |
| 2.8 mm subunit (2-12 fibres)                     | K6Z41                          | B6Z31                        | T6Z80                        | Q6Z80                        | R6Z31                      | G6Z31                                |                                    |
| 2.0 mm subunit (2-24 fibres)                     | K6Z20                          | B6Z20                        | T6Z20                        | Q6Z20                        | R6Z20                      | G6Z20                                |                                    |
| <b>MIC Cable (2-24 fibres) **</b>                |                                |                              |                              |                              |                            |                                      |                                    |
| 900 µm legs                                      | K8Z30                          | B8Z31                        | T8Z80                        | Q8Z80                        | R8Z31                      | G8Z31                                |                                    |

\*Leg length: 250 mm

\*\*Leg length: 2 fibre 250 mm  
>2 fibre 1000 mm

\*\*\* Ivory color for cable sheath when specified in catalogue number page 3

# Cable Assemblies

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Table B

|                                                  |                                |                              |                              |                              |                            |
|--------------------------------------------------|--------------------------------|------------------------------|------------------------------|------------------------------|----------------------------|
| Core Diameter<br>Brand Name<br>Fibre Type/Class  | 62.5 µm<br>ClearCurve<br>(OM1) | 50 µm<br>ClearCurve<br>(OM2) | 50 µm<br>ClearCurve<br>(OM3) | 50 µm<br>ClearCurve<br>(OM4) | 9 µm<br>SMF-28e<br>G.652.D |
| Fibre Code                                       | K                              | B                            | T                            | Q                            | R                          |
| Cable Sheath Color                               | Orange                         | Orange                       | Turquoise                    | Turquoise                    | Yellow                     |
| <b>Flame Classification:</b> FRNC/LSZH, Type B.1 |                                |                              |                              |                              |                            |
| <b>2-Fibre Cables</b>                            |                                |                              |                              |                              |                            |
| 2 x 1.8 mm (MiniZip) *                           | K5Z18                          | B5Z18                        | T5Z18                        | Q5Z18                        | R5Z18                      |
| 1 x 2.9 mm (MiniMIC) **                          | K8ZM2                          | B8ZM2                        | T8ZM2                        | Q8ZM2                        | R8ZM2                      |

\*MiniZip required for hybrid MT-RJ to non MT-RJ assembly

\*\*MiniMIC used for MT-RJ to MT-RJ assembly

## Part Number Example

| Part Number       | Product Description                                                                      | Units Per Delivery |  |
|-------------------|------------------------------------------------------------------------------------------|--------------------|--|
| 004401G4Z31001M   | Pigtail SC APC, 900 µm LSZH TB, SMF-28® Ultra OS2, 1 m                                   | 1/1                |  |
| 020201R2Z31002.5M | LC UPC to LC UPC patch cord, 1 fibre, E9/125 SMF-28 Ultra TB, LSZH, 2.0mm diameter, 2.5M | 1/1                |  |

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# Cable Assemblies

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## Single-Fibre Cable

- Available in 1.8, 2.0 or 2.9 mm outer diameters.
- Available in SMF-28e®, SMF-28e ULTRA, 62.5  $\mu\text{m}$  (OM1), 50  $\mu\text{m}$  (OM2, OM3, OM4) fibres.

### Single-mode



**Single-Fibre Cable**  
| Drawing ZA-2557

### 62.5 $\mu\text{m}$ multimode



**Single-Fibre Cable**  
| Drawing ZA-4040

### 50 $\mu\text{m}$ multimode



**Single-Fibre Cable**  
| Drawing ZA-3414

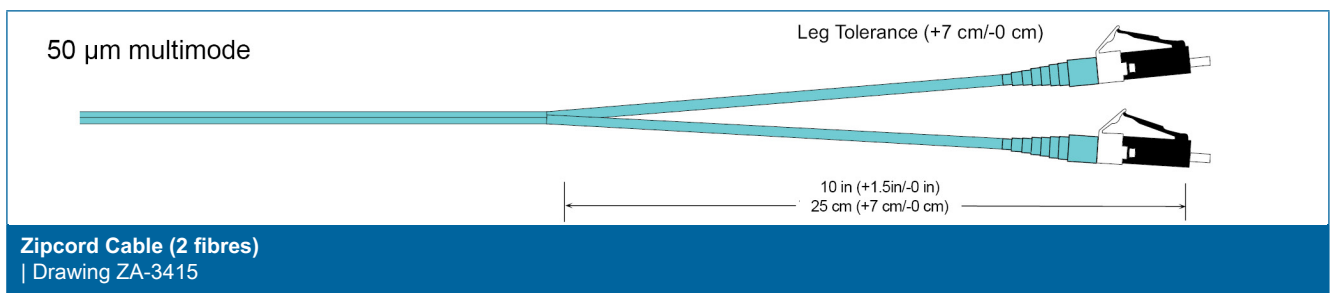
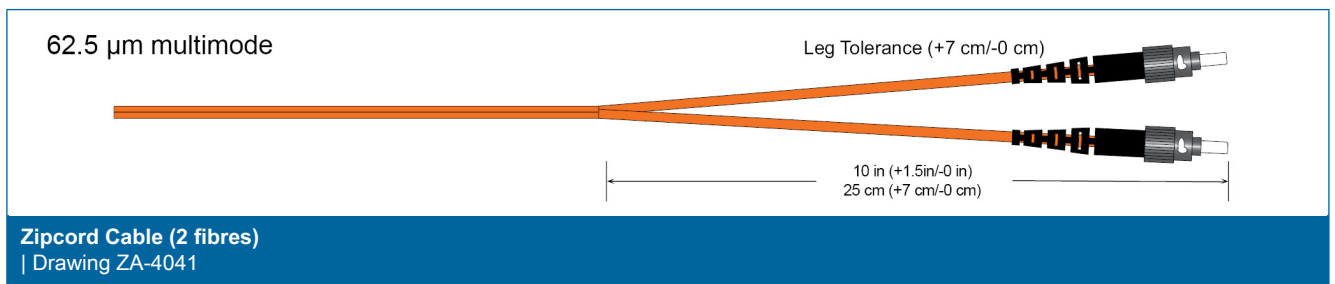
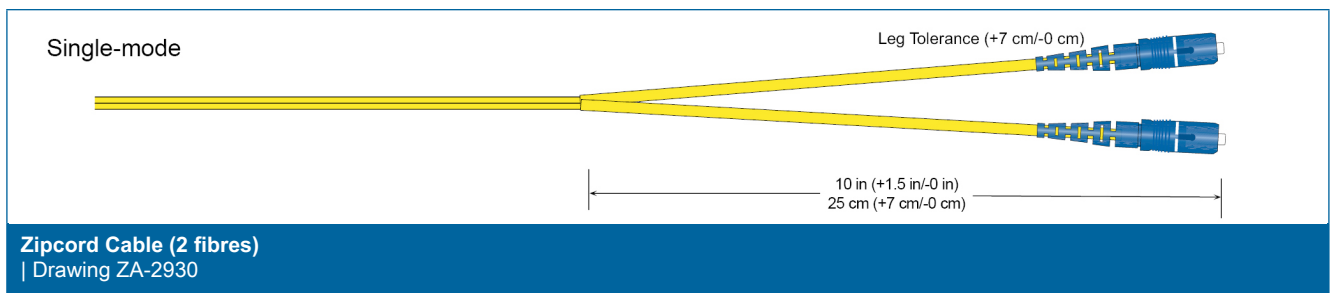
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# Cable Assemblies

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## Zipcord Cable (2 fibres)

- Available in 1.8, 2.0 and 2.9 mm subunits.
- Available in SMF-28e®, SMF-28e ULTRA, 62.5 µm (OM1), 50 µm (OM2, OM3, OM4) fibres.



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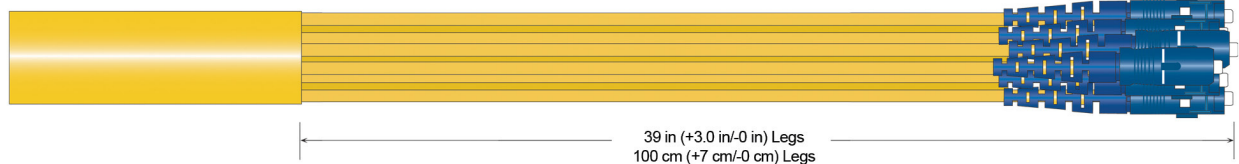
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## Fan-Out Cable (2-24 fibres)

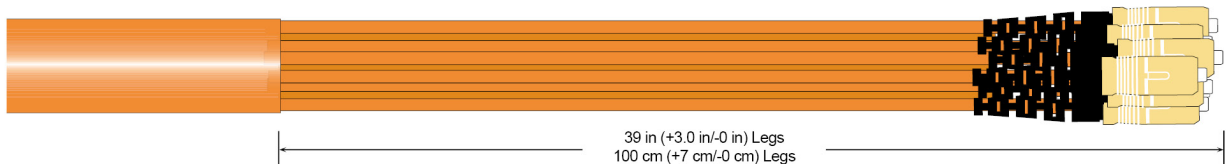
- Maximum fibre count for fan-out cable assemblies is 24 fibres.
- Available in 1.8, 2.0 or 2.9 mm subunits.
- Available in SMF-28e®, SMF-28e ULTRA, 62.5  $\mu\text{m}$  (OM1), 50  $\mu\text{m}$  (OM2, OM3, OM4) fibres.

### Single-mode



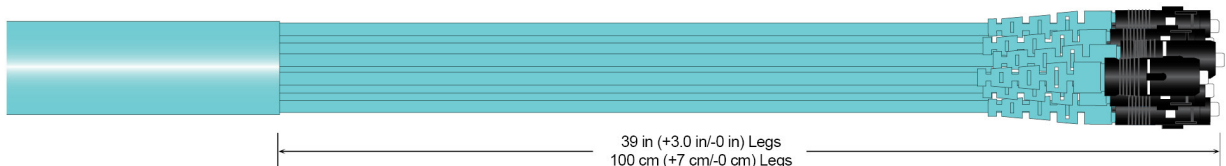
**Fan-Out Cable (2-24 fibres)**  
| Drawing ZA-2932

### 62.5 $\mu\text{m}$ multimode



**Fan-Out Cable (2-24 fibres)**  
| Drawing ZA-4042

### 50 $\mu\text{m}$ multimode



**Fan-Out Cable (2-24 fibres)**  
| Drawing ZA-3417

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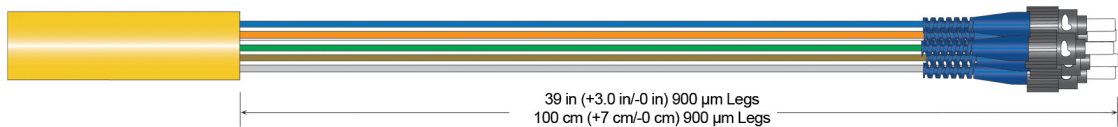
# Cable Assemblies

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## MIC<sup>®</sup> Cable Furcation (2-24 fibres)

- Available in 900 µm.
- No furcation for 900 µm legs.
- Available in SMF-28e<sup>®</sup>, SMF-28e ULTRA, 62.5 µm (OM1), 50 µm (OM2, OM3, OM4) fibres.

Single-mode - 900 µm option no furcation (same configuration used for OM2, OM3 and OM4)



**MIC Cable Furcation**  
| Drawing ZA-2934

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# Cable Assemblies

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## Related Products

|                                                |                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Keyed LC:</b>                               | 0247_NAFTA_AEN (pg 5) ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/Security_Keyed_LC_Connector_Solution_NAFTA_AEN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/Security_Keyed_LC_Connector_Solution_NAFTA_AEN.pdf</a> ) |
|                                                | LAN-1057-EN (part numbering tool for Keyed LC Assemblies with non-standard colors) ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/LAN-1057-EN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/LAN-1057-EN.pdf</a> )          |
| <b>ClearCurve® Drop Cable Assemblies:</b>      | 0351_NAFTA_AEN ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/ClearCurve_Drop_Cable_Assemblies_NAFTA_AEN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/ClearCurve_Drop_Cable_Assemblies_NAFTA_AEN.pdf</a> )                |
| <b>Reverse Polarity Uniboot Duplex Jumpers</b> | 0165_NAFTA_AEN (pg 14) ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/premium_EDGE_HD_solutions_NAFTA_AEN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/premium_EDGE_HD_solutions_NAFTA_AEN.pdf</a> )                      |
| <b>Low-Loss Cable Assemblies:</b>              | 0300_NAFTA_AEN (pg 19) ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/Plug_and_Play_Universal_Systems_NAFTA_AEN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/product_family_specifications_rl/Plug_and_Play_Universal_Systems_NAFTA_AEN.pdf</a> )          |
| <b>Fast Ship/Fast Connect:</b>                 | LAN-1500-AEN.pdf ( <a href="http://csmedia.corning.com/opcomm/Resource_Documents/additional_information_rl/LAN-1500-AEN.pdf">http://csmedia.corning.com/opcomm/Resource_Documents/additional_information_rl/LAN-1500-AEN.pdf</a> )                                                                                        |



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