Features and Benefits

Supports 4,320 LC or 2,880 SC ports per frame
Saves space through increased port density

Available in rear cable access
Designed in compliance with GR-449-CORE, Issue 3 standards

Modular cassette design
Enables one platform for many application spaces e.g. central office, headend, FTTx, FTTC and data center

Increased jumper routing space
Supports standard 1.6 and 2.0 mm jumpers (2.0 in a 36 F cassette only)

Available in front cable access
Allows for back-to-back frame configuration

The Centrix™ System is a high-density fiber management system that provides a balance of industry-leading density with innovative jumper routing. The system can be deployed in multiple applications including: central office, headend, FTTx, FTTC and data center.

Centrix System supports up to 4,320 LC or 2,880 SC connector ports per standard 7-ft frame/2134 mm. The frame design provides optimized routing paths for jumpers, reducing the risk of pileup or entanglement. A single jumper length for an in-frame, cross-connect network design reduces jumper inventory.

At the foundation of the Centrix System is a single, modular cassette that can be tailored to include a variety of optical devices (splitter, WDM, etc). The modular cassette provides flexibility and functionality within a single frame without sacrificing density. Each cassette contains up to either 24 SC or 36 LC connector adapters. Easy port access is possible due to a sliding cassette with drop-down handle. A 1RU housing will hold 3 cassettes, a 2RU housing will hold 6 cassettes and a 4RU will hold 12 cassettes. Housings can be ordered empty, loaded with cassettes for on-frame splicing or as stubbed assemblies to reduce installation time and risk.

The Centrix System is available with both rear or front cable access. Front cable access allows back-to-back frame configurations or mounting against a wall. Both frame configurations save space through increased port density.

<table>
<thead>
<tr>
<th>Housing Size</th>
<th>1RU</th>
<th>2RU</th>
<th>4RU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Density - LC</td>
<td>108 F</td>
<td>216 F</td>
<td>432 F</td>
</tr>
<tr>
<td>Max. Density - SC</td>
<td>72 F</td>
<td>144 F</td>
<td>288 F</td>
</tr>
<tr>
<td>Cassette Capacity</td>
<td>3</td>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>
Centrix™ System

Centrix CTX-S1U Housing with 3 cassettes | Photo CRR3606

Centrix CTX-S2U Housing with 6 cassettes | Photo CRR3608

Centrix CTX-S4U Housing with 12 cassettes | Photo CRR3602
Centrix™ System

- Upper jumper trough
- Interconnect jumper routing exit point (six additional rear routing troughs included with the rear cable access frame)
- Centrix™ 4U housing (10 per 7-ft frame)
- Integrated jumper routing guide (extends to the full frame height)
- Centrix cassette (120 per frame)
- Lower jumper trough

### Cable Access

<table>
<thead>
<tr>
<th>Access</th>
<th>Dimensions: H x W x D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front</td>
<td>84 x 35 x 12 in (2134 x 902 x 305 mm)</td>
</tr>
<tr>
<td>Rear</td>
<td>84 x 30 x 24 in (2134 x 762 x 610 mm)</td>
</tr>
</tbody>
</table>

**Centrix Frame, Rear and Front Cable Access**

Photos CRR2014, CRR3616
Frames, Housings and Cassettes

Centrix™ housings and cassettes are available in several configurations:

**Frames:**
- Rear Cable Access
- Front Cable Access

**Housings:**
- Empty
- Loaded with pigtailed cassettes
- Stubbed

**Cassettes:**
- Loaded with adapters and pigtails
- Loaded with patch panels
- Stubbed with 2 m MTP®
- Loaded with MTP 12-fiber connectors
- Loaded with splitters
- Loaded with WDM’s

### Fiber Capacity

<table>
<thead>
<tr>
<th>Adapter Type</th>
<th>Terminations per Cassette</th>
<th>Terminations per Housing</th>
<th>Size 1RU</th>
<th>2RU</th>
<th>4RU</th>
<th>Terminations per Frame</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC</td>
<td>12, 24</td>
<td>36, 72</td>
<td>72, 144</td>
<td>144, 288</td>
<td>1440 to 2880</td>
<td></td>
</tr>
<tr>
<td>LC</td>
<td>24, 36</td>
<td>72, 108</td>
<td>144, 216</td>
<td>288, 432</td>
<td>2880 to 4320</td>
<td></td>
</tr>
</tbody>
</table>
### Frames

**Ordering Information**

| CTX - [ ] - FRAME - 7 |

1. Select frame options.
   - SA = Centrix™ standard frame, rear cable access, 7 ft
   - FA = Centrix frame, front cable access, 7 ft

### Frame Isolation Pads

**Ordering Information**

| CTX - PK - [ ] |

1. Select frame isolation pads.
   - SA = Centrix™ standard frame isolation pad, rear cable access
   - FA = Centrix frame isolation pad, front cable access

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
</tr>
<tr>
<td>CTX-SA-FRAME-7</td>
</tr>
<tr>
<td>CTX-SA-FRAME-6</td>
</tr>
<tr>
<td>CTX-FA-FRAME-7</td>
</tr>
</tbody>
</table>

Note: Corning recommends using an isolation pad with all installations of Centrix frames.
Empty Housings, Rack Mounting

<table>
<thead>
<tr>
<th>Centrix S1U Housing</th>
<th>Centrix S2U Housing</th>
<th>Centrix S4U Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photo CRR3615</td>
<td>Photo CRR3613</td>
<td>Photo CRR3611</td>
</tr>
</tbody>
</table>

Ordering Information

**CTX - [ ] [ ] [ ]**

1. Defines Centrix™ rack housings.
   - S1U = 1RU, 3 cassette housings, empty
   - S2U = 2RU, 6 cassette housings, empty
   - S4U = 4RU, 12 cassette housings, empty
   - E4U = 4RU, 12 cassette enclosed housings, empty

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>CTX-S1U</td>
</tr>
<tr>
<td>CTX-S2U</td>
</tr>
<tr>
<td>CTX-S4U</td>
</tr>
</tbody>
</table>
Housings with Cassettes, Adapters and Pigtails for Splicing

Ordering Information

*Example configurations provided are for fully loaded pigtailed cassette housings; partially loaded pigtailed cassette housings are available and can be ordered by using a total fiber count value of: the number of cassettes multiplied by the fiber count of the cassette configuration requested. The number of cassettes available per housing must agree with selection [1] and the fiber count of the cassette must agree with selections [3] & [4].

Note: Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Customer Care representative.

**Ordering Information**

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX4U8P24-3C-2RJ000</td>
<td>Centrix™ Splice Housing, 4U, 12 Cassettes each with 24 SC UPC adapters &amp; SM Pigtails, Ribbon standard SM Pigtails, total of 288 F</td>
</tr>
<tr>
<td>CX4WWP36-A9-2RJ000</td>
<td>Centrix™ Splice Housing, 4U, 12 Cassettes each with 36 LC UPC adapters &amp; SM Pigtails, Ribbon standard SM Pigtails, total of 432 F</td>
</tr>
<tr>
<td>CX172P24-3C-2RH000</td>
<td>Centrix™ Splice Housing, 1U, 3 Cassettes each with 24 SC UPC adapters &amp; SM pigtails, 900 µm standard SM pigtails, total of 72 F</td>
</tr>
</tbody>
</table>
## Centrix™ System

### Stubbed Housings

#### Ordering Information

<table>
<thead>
<tr>
<th>Part Number Example</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part Number</strong></td>
</tr>
<tr>
<td>CX4U831243C-UF001B</td>
</tr>
<tr>
<td>CX4U831246C-UF001B</td>
</tr>
</tbody>
</table>

---

*Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Customer Care representative.*
## Ordering Information

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX4WW1636B3-QF001B</td>
<td>Centrix™ Stubbed 4U Housing, 432 F using (12) 36 port LC APC cassettes, SM, FREEDM® LT ribbon gel-free indoor/outdoor cable, 16 m stub</td>
</tr>
<tr>
<td>CX4WW3136A9-QF001B</td>
<td>Centrix™ Stubbed 4U Housing, 432 F using (12) 36 port LC UPC cassettes, SM, FREEDM® LT ribbon gel-free indoor/outdoor cable, 31 m stub</td>
</tr>
</tbody>
</table>
Pigtail Cassettes

Ordering Information

<table>
<thead>
<tr>
<th>CTX</th>
<th>C</th>
<th>P</th>
<th>-</th>
<th>2</th>
<th>R</th>
<th>0</th>
<th>0</th>
<th>0</th>
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<tbody>
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<td>6</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Defines cassette type.
   CP = Centrix cassette with adapters and pigtaile

2. Select fiber count per cassette.
   12 = 12 fibers (SC)
   24 = 24 fibers (LC or SC)
   36 = 36 fibers (LC)
   3S = 36 fibers staggered (LC only)

3. Select adapter code.
   Single-mode:
   6C = SC APC
   3C = SC UPC
   B3 = LC APC
   A9 = LC UPC

4. Defines pigtail type.
   2 = Standard pigtaile

5. Defines fiber type.
   R = Single-mode (OS2)

6. Select pigtail type.
   J = Ribbon
   H = Single-fiber

7. Defines optical devices.
   000 = No optical devices

Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Customer Care representative.

Centrix™ System

Ordering Information

<table>
<thead>
<tr>
<th>Centrix MTP® Cassettes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
</tr>
<tr>
<td>CTXCPP24-6C-2RH000</td>
</tr>
<tr>
<td>CTXCPP24-3C-2RJ000</td>
</tr>
<tr>
<td>CTXCPP36-A9-2RJ000</td>
</tr>
<tr>
<td>CTXCPP36-B3-2RJ000</td>
</tr>
</tbody>
</table>
## Centrix™ Patch Cassette

### Ordering Information

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Select total fiber count.*
   - 12 = 12 fibers (SC)
   - 24 = 24 fibers (LC or SC)
   - 36 = 36 fibers (LC)
   * Defined by cable access.

2. Select adapter code.
   - Single-mode:
     - 6C = SC APC
     - 3C = SC UPC
     - B3 = LC APC
     - A9 = LC UPC

3. Select cable access type.
   - **Rear Access***
     - B = Rear access
   - **Front Access****
     - L = Left front access
     - R = Right front access

*Rear Access will allow for 24 SC max or 36 LC max.
**Front Access will allow for 12 SC max or 24 LC max due to front entrance space required.
Centrix™ System

Stubbed cassettes with MTP Connector Option

Ordering Information

![Ordering Information Table]

1. Select fiber count.
   - 12 = 12 fibers
   - 24 = 24 fibers
   - 36 = 36 fibers

2. Defines stub length.
   - 02 = For MTP pretermination

3. Select fiber count per cassette.
   - 12 = 12 fibers (SC)
   - 24 = 24 fibers (LC or SC)
   - 36 = 36 fibers (LC)

4. Select adapter code.
   - Single-mode:
     - 6C = SC APC
     - 3C = SC UPC
     - B3 = LC APC
     - A9 = LC UPC

5. Defines cable type.
   - D9 = Single-mode, 12 F cable assembly

6. Defines preterminated connector type.
   - 89 = MTP pinned (MTP standard)

7. Select stub quantity.
   - 1 = One cable stub
   - 2 = Two cable stubs
   - 3 = Three cable stubs

8. Select cable stub access.
   - B = Rear access
   - R = Front right access
   - L = Front left access

Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Customer Care representative.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX2402246C-D9892B</td>
<td>Centrix™ Stubbed Cassette, 24 F, SC APC to 2 MTP®, SM, 12 F cable assembly, 2 m</td>
</tr>
<tr>
<td>CTX360236A9-D9893B</td>
<td>Centrix™ Stubbed Cassette, 36 F, LC UPC to 3 MTP®, SM, 12 F cable assembly, 2 m</td>
</tr>
<tr>
<td>CTX240224B3-D9892B</td>
<td>Centrix™ Stubbed Cassette, 24 F, LC APC to 2 MTP®, SM, 12 F cable assembly, 2 m</td>
</tr>
<tr>
<td>CTX240224A9-D9892B</td>
<td>Centrix™ Stubbed Cassette, 24 F, LC UPC to 2 MTP®, SM, 12 F cable assembly, 2 m</td>
</tr>
<tr>
<td>CTX360236B3-D9893B</td>
<td>Centrix™ Stubbed Cassette, 36 F, LC APC to 3 MTP®, SM, 12 F cable assembly, 2 m</td>
</tr>
</tbody>
</table>
## Module with Integrated MTP Connector Option

### Ordering Information

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX24A9-892RRR</td>
<td>CTX Module, 24 port, LC UPC front facings, pinned, 2 MPO adapters, SM, right side front facing MPO adapters, classic polarity</td>
</tr>
<tr>
<td>CTX24A9-892RLR</td>
<td>CTX Module, 24 port, LC UPC front facings, pinned, 2 MPO adapters, SM, left side front facing MPO adapters, classic polarity</td>
</tr>
<tr>
<td>CTX126C-891RRR</td>
<td>CTX Module, 12 port, SC APC front facings, pinned, 1 MPO adapter, SM, right side front facing MPO adapters, classic polarity</td>
</tr>
<tr>
<td>CTX126C-891RLR</td>
<td>CTX Module, 12 port, SC APC front facings, pinned, 1 MPO adapter, SM, left side front facing MPO adapters, classic polarity</td>
</tr>
<tr>
<td>CTX36A9-893RBR</td>
<td>CTX Module, 36 port, LC UPC front facings, pinned, 3 MPO adapters, SM, rear facing MPO adapters, classic polarity</td>
</tr>
</tbody>
</table>
Centrix™ System

Splitter Cassettes

Ordering Information

<table>
<thead>
<tr>
<th>C T X</th>
<th>C M A</th>
<th>0 0 -</th>
<th>S P</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Defines cassette type, adapters with splitter devices.
   CMA = Centrix cassette with splitter devices

2. Defines reference (future place holder).
   00 = Reference place holder

3. Select adapter code.
   6C = SC APC (24 F max.)
   B3 = LC APC (36 F max.)

4. Defines device type.
   SP = Splitter

5. Select number of devices.
   1, 2, 3, 4, 5, 6, 7, 8*, or 9*
   T = 12*
   *1x2 only

6. Select split ratio.
   102 = 1x2
   104 = 1x4
   108 = 1x8
   116 = 1x16
   132 = 1x32

Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Care representative.

Ordering Information

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTXCMA00-B3-SP1132</td>
<td>Centrix™ Splitter Cassette, one 1x32 Splitter, LC APC connectors</td>
</tr>
<tr>
<td>CTXCMA00-B3-SP1116</td>
<td>Centrix™ Splitter cassette, one 1x16 Splitter, LC APC connectors</td>
</tr>
<tr>
<td>CTXCMA00-6C-SP1116</td>
<td>Centrix™ Splitter cassette, one 1x16 Splitter, SC APC connectors</td>
</tr>
</tbody>
</table>
Coarse Wavelength Division Multiplexing (CWDM) Solutions

Corning coarse wavelength division multiplexing solutions (CWDM) multiplexers and demultiplexers utilize advanced thin-film-filter technology designed for use with less expensive, non-temperature controlled lasers. CWDM filters are available in industry-standard 20 nm spacing with options for a 1310 nm RF overlay bypass as well as single or bidirectional test ports.

Features and Benefits

Passive and outside plant hardened
No power or temperature-controlled environment required

Epoxy-free optical path
Higher reliability

Low insertion loss and high isolation
Minimum impact on insertion loss budgets and lower transmission costs

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Fiber color</th>
</tr>
</thead>
<tbody>
<tr>
<td>1270</td>
<td>Slate</td>
</tr>
<tr>
<td>1290</td>
<td>Violet</td>
</tr>
<tr>
<td>1310</td>
<td>Blue</td>
</tr>
<tr>
<td>1330</td>
<td>Green</td>
</tr>
<tr>
<td>1350</td>
<td>Yellow</td>
</tr>
<tr>
<td>1370</td>
<td>Orange</td>
</tr>
<tr>
<td>1390</td>
<td>Red</td>
</tr>
<tr>
<td>1410</td>
<td>Brown</td>
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<tr>
<td>1430</td>
<td>White</td>
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<td>Test Rx</td>
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<td>Test Tx</td>
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<tr>
<td>W</td>
<td>Slate</td>
</tr>
<tr>
<td>T</td>
<td>Slate</td>
</tr>
</tbody>
</table>

Color Codes for CWDM Wavelengths
### Ordering Information

![Centrix™ System](image)

#### CTX

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th>U</th>
</tr>
</thead>
</table>
| 1 | Select connector type.  
**Single-mode:**  
3C = SC UPC simplex  
6C = SC APC simplex  
A9 = LC UPC duplex adapters  
B3 = LC APC duplex adapters  
| 2 | Select number of channel devices.  
01 = 1 device mux or demux  
02 = 2 devices mux or demux  
03 = 3 devices mux or demux  
04 = 4 devices mux or demux  
05 = 5 devices mux or demux  
06 = 6 devices mux or demux  
07 = 7 devices mux or demux  
08 = 8 devices mux or demux  
09 = 9 devices mux or demux  
10 = 10 devices mux or demux  
A1 = 11 devices mux or demux  
A2 = 12 devices mux or demux  
A3 = 13 devices mux or demux  
A4 = 14 devices mux or demux  
A5 = 15 devices mux or demux  
A6 = 16 devices mux or demux  
A7 = 17 devices mux or demux  
A8 = 18 devices mux or demux  
A9 = 19 devices mux or demux  
BO = 20 devices mux or demux  
11 = 1 device mux and demux  
22 = 2 devices mux and demux  
33 = 3 devices mux and demux  
44 = 4 devices mux and demux  
55 = 5 devices mux and demux  
66 = 6 devices mux and demux  |
| 3 | Select first range of two adjacent wavelengths (channels must be consecutive).  
Z = No wavelength  
K = 1270 A = 1450  
L = 1290 B = 1470  
M = 1310 C = 1490  
N = 1330 D = 1510  
P = 1350 E = 1530  
Q = 1370 F = 1550  
R = 1390 G = 1570  
S = 1410 H = 1590  
U = 1430 J = 1610  
T = Triplexer (1310 + 1490/1550)  
W = 1310/1550  
VH = 1590 Quadplexer  
VJ = 1610 Quadplexer  
*See Notes 1 & 2.*
| 4 | Select 1310 option.  
- = No 1310 WDM option  
Y = With 1310 option  
| 5 | Select second range of two adjacent wavelengths (channels must be consecutive).  
Z = No wavelength  
K = 1270 A = 1450  
L = 1290 B = 1470  
M = 1310 C = 1490  
N = 1330 D = 1510  
P = 1350 E = 1530  
Q = 1370 F = 1550  
R = 1390 G = 1570  
S = 1410 H = 1590  
U = 1430 J = 1610  
T = Single 95/5 test port  
D = Bi-directional 99/1 test port  
N = No test port  
*See Notes 1 & 2.*
| 6 | Select test port.  
T = Single 95/5 test port  
D = Bi-directional 99/1 test port  
N = No test port  
*See Notes 1 & 2.*

#### Notes:

1. For selections 3 & 5, must choose a total of 4 digits — 2 for each set of adjacent wavelengths; wavelengths not to exceed total number of channels chosen in Section 2.
2. If choosing mux OR demux channels, wavelength digit “Z” (no wavelength) will be chosen for one or more of the 4 wavelength digits.
3. Choose the number of devices in Section 2; example, 3 quadplexers, or 4 ‘W’ devices.

Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Care representative.
# Centrix™ System

## WDM Cassettes

<table>
<thead>
<tr>
<th>Part Number Example</th>
<th>Product Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX6C08BJYZZUN</td>
<td>Centrix™ WDM Cassette, 8 channel Mux or DeMux, 1470-1610 with 1310 port, SC APC</td>
</tr>
<tr>
<td>CTXB308BJYZZUN</td>
<td>Centrix™ WDM Cassette, 8 channel Mux or DeMux, 1470-1610 with 1310 port, LC APC</td>
</tr>
<tr>
<td>CTX3C08BJYZZUN</td>
<td>Centrix™ WDM Cassette, 8 channel Mux or DeMux, 1470-1610 with 1310 port, SC UPC</td>
</tr>
<tr>
<td>CTXA908BJYZZUN</td>
<td>Centrix™ WDM Cassette, 8 channel Mux or DeMux, 1470-1610 with 1310 port, LC UPC</td>
</tr>
</tbody>
</table>
## Centrix™ System

### Multi-channel CWDM Connectorized – Concatenated

<table>
<thead>
<tr>
<th>Parameters</th>
<th>4 Channel</th>
<th>8 Channel</th>
<th>16 Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
<td>-40° to +85°C</td>
</tr>
<tr>
<td>Central Wavelengths (nm)</td>
<td>1271, 1291, 1301, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611</td>
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</table>

### Mux and Demux with Connectors

<table>
<thead>
<tr>
<th>Parameters</th>
<th>20</th>
<th>20</th>
<th>20</th>
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</thead>
<tbody>
<tr>
<td>Channel Spacing (nm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Channel Passband (nm)</td>
<td>± 6.5</td>
<td>± 6.5</td>
<td>± 6.5</td>
</tr>
<tr>
<td>Ripple within passband (dB)</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>CWDM Channel Insertion Loss (dB)</td>
<td>≤ 2.2</td>
<td>≤ 3.8</td>
<td>≤ 4.5</td>
</tr>
<tr>
<td>Optical Express Channel Insertion Loss (dB)</td>
<td>≤ 1.9</td>
<td>≤ 3.5</td>
<td>≤ 3.9</td>
</tr>
<tr>
<td>Non-Adjacent Channel Isolation (dB)</td>
<td>≥ 40</td>
<td>≥ 40</td>
<td>≥ 40</td>
</tr>
<tr>
<td>Adjacent Channel Isolation (dB)</td>
<td>≥ 30</td>
<td>≥ 30</td>
<td>≥ 30</td>
</tr>
<tr>
<td>Directivity (dB)</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
</tr>
<tr>
<td>Polarization Dependent Loss (dB)</td>
<td>≤ 0.1</td>
<td>≤ 0.15</td>
<td>≤ 2.0</td>
</tr>
<tr>
<td>Polarization Mode Dispersion (dB)</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
</tr>
</tbody>
</table>

### Mux and Demux with Connectors and 1310 nm port

| Parameters                          | ≤ 2.6                 | ≤ 4.2                 | ≤ 4.9                 |
| CWDM Channel Insertion Loss         |                       |                       |                       |
| Isolation of 1310 nm channel        | ≥ 40                  | ≥ 40                  | ≥ 40                  |

### Mux and Demux with Connectors and 1 percent monitoring port

| Parameters                          | ≤ 2.7                 | ≤ 4.3                 | ≤ 5.0                 |
| CWDM Channel Insertion Loss         |                       |                       |                       |
| Monitoring Port Insertion Loss*     | ≤ 24                  | ≤ 24                  | ≤ 24                  |

Notes: *Monitor port insertion loss = Measurement from Mon port - Measurement from Corn port
Methodology for calculating the specification for multiple channel CWDM devices
Reflect IL 0.4 dB – Pass IL 0.7 dB – Connectors (pair) IL 0.3 dB

Examples:
A 4 channel CWDM. Maximum IL = 0.4 x3 + 0.7 = 1.9 dB, when it is with connector the maximum IL = 1.9 + 0.3 = 2.2 dB
An 8 channel CWDM. Maximum IL = 0.4 x 7 + 0.7 = 3.5 dB, when it is with connector the maximum IL = 3.5 + 0.3 = 3.8 dB
## CWDM Specifications Connectorized Compact

<table>
<thead>
<tr>
<th>Parameters</th>
<th>4 channel</th>
<th>8 channel</th>
<th>16 channel</th>
<th>4 channel</th>
<th>8 channel</th>
<th>16 channel</th>
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</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-40° to +85° C</td>
<td></td>
<td></td>
<td>-10° to +60° C</td>
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<tr>
<td>Central Wavelengths (nm)</td>
<td>1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611</td>
<td>1271, 1291, 1311, 1331, 1351, 1371, 1391, 1411, 1431, 1451, 1471, 1491, 1511, 1531, 1551, 1571, 1591, 1611</td>
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### Mux and Demux with Connectors

<table>
<thead>
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<td>± 6.5</td>
<td>± 6.5</td>
<td>± 6.5</td>
<td>± 6.5</td>
<td>± 6.5</td>
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<tr>
<td>Ripple within Passband (dB)</td>
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<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
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<tr>
<td>CWDM Channel Insertion Loss (dB)</td>
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<td>≤ 2.1</td>
<td>≤ 1.6</td>
<td>≤ 1.9</td>
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<tr>
<td>Optical Express Channel Insertion Loss (dB)</td>
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<td>≤ 2.1</td>
<td>≤ 1.6</td>
<td>≤ 1.9</td>
<td></td>
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<tr>
<td>Non-Adjacent Channel Isolation (dB)</td>
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<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
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<tr>
<td>Adjacent Channel Isolation (dB)</td>
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<td>≥ 30</td>
<td>≥ 30</td>
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<tr>
<td>Directivity (dB)</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
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<tr>
<td>Return Loss (dB)</td>
<td>≥ 45</td>
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<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
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<tr>
<td>Polarization Dependent Loss (dB)</td>
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<td>≤ 0.2</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
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<tr>
<td>Polarization Mode Dispersion (dB)</td>
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### Mux and Demux with Connectors and 1310 nm port

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<td>≤ 1.8</td>
<td>≤ 2.1</td>
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<tr>
<td>Isolation of 1310 nm channel</td>
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<td>≥ 40</td>
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### Mux and Demux with Connectors and 5 percent monitoring port

<table>
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<tbody>
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<td>≤ 2.5</td>
<td>≤ 2.0</td>
<td>≤ 2.3</td>
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<td>Monitoring Port Insertion Loss</td>
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<td>≤ 15.5</td>
<td>≤ 15.5</td>
<td>≤ 15.5</td>
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<td></td>
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</table>

### Mux and Demux with Connectors and 1 percent monitoring port

<table>
<thead>
<tr>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CWDM Channel Insertion Loss</td>
<td>≤ 2.2</td>
<td>≤ 2.5</td>
<td>≤ 1.9</td>
<td>≤ 2.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Monitoring Port Insertion Loss</td>
<td>≤ 24</td>
<td>≤ 24</td>
<td>≤ 24</td>
<td>≤ 24</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: Monitor port insertion loss = Measurement from Mon port - Measurement from Com port
Methodology for calculating the specification for multiple channel CWDM devices
Reflect IL 0.4 dB – Pass IL 0.7 dB – Connectors (pair) IL 0.3 dB

Examples:
- A 4 channel CWDM, Maximum IL = 0.4 x 3 + 0.7 = 1.9 dB, when it is with connector the maximum IL = 1.9 + 0.3 = 2.2 dB
- An 8 channel CWDM, Maximum IL = 0.4 x 7 + 0.7 = 3.5 dB, when it is with connector the maximum IL = 3.5 + 0.3 = 3.8 dB
Dense Wavelength Division Multiplexing (DWDM) Solutions

Corning DWDM multiplexers and de-multiplexers utilize advanced thin-film filter and athermal waveguide technology designed for low insertion loss, high isolation and excellent temperature stability in a totally passive device. They are available in various channel counts at ITU industry standard 100 and 200 GHz spacing, in both the C and L Band. Corning's DWDM devices are Telcordia GR-1209 and GR-1221 qualified and have a wide variety of packaging options.

Features and Benefits

- **Passive and outside plant hardened**: No power or temperature-controlled environment required
- **Epoxy-free optical path**: Higher reliability
- **Low insertion loss and high isolation**: Minimum impact on insertion loss budgets and lower transmission costs
- **Transport protocol independent**: Flexibility
### Ordering Information

**1. Select connector type.**
- **Single-mode:**
  - 3C = SC UPC simplex
  - 6C = SC APC simplex
  - A9 = LC UPC duplex adapters
  - B3 = LC APC duplex adapters

**2. Select channel spacing.**
- 1 = 100 GHz
- 2 = 200 GHz
  *Select 1 for single channel devices.

**3. Select type.**
- A = Mux or demux*
- B = Mux and demux
  *Select A for single channel devices. See note 1.

**4. Select number of channels, set one.**
- nn = Number of channels
  - 04 = Four channels
  - 08 = Eight channels
  - 11 = Eleven channels
  - 16 = Sixteen channels
  - 32 = Thirty-two channels*
  *See Note 2.

**5. Select ITU grid first channel, set one.**
- 21 = C21 (1560.61 nm, 192.10 THz)
- ZZ = No selection
  *See note 1.

**6. Select number of channels, set two.**
- nn = Number of channels
  - 04 = Four channels
  - 08 = Eight channels
  - 11 = Eleven channels
  - 16 = Sixteen channels
  - 32 = Thirty-two channels*
  - 00 = No selection
  *See Note 2.

**7. Select ITU grid first channel, set two.**
- 21 = C21 (1560.61 nm, 192.10 THz)
- ZZ = No selection
  *See note 1.

**8. Select test port.**
- Y = Single 95/5 test port
- D = Bi-directional 99/1 test port
- N = No test port

### Notes:
1) For selections 3, 5 & 7, pick odd (C21,C23,C25...) or even (C20,C22,C24) starting points for 200 GHz channel spacing.
2) For selections 4 & 6, 16 channel maximum building blocks are used; e.g., a 36-channel arrangement concatenates to two 16-channel.

Not all part number configurations are available, please confirm availability with a Corning Optical Connectivity Care representative.
## Multi-channel DWDM Connectorized – Concatenated

<table>
<thead>
<tr>
<th>Parameters</th>
<th>4 Channel</th>
<th>8 Channel</th>
<th>16 Channel</th>
<th>32 Channel</th>
<th>40 Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
<td>-40°C to +85°C</td>
</tr>
<tr>
<td>Frequency spacing (GHz)</td>
<td>100</td>
<td>200</td>
<td>100</td>
<td>200</td>
<td>100</td>
</tr>
</tbody>
</table>

### Mux and Demux with Connectors

<table>
<thead>
<tr>
<th>Channel Spacing (nm)</th>
<th>4 Channel</th>
<th>8 Channel</th>
<th>16 Channel</th>
<th>32 Channel</th>
<th>40 Channel</th>
</tr>
</thead>
<tbody>
<tr>
<td>Channel Passband (nm)</td>
<td>± 0.11</td>
<td>± 0.25</td>
<td>± 0.11</td>
<td>± 0.25</td>
<td>± 0.11</td>
</tr>
<tr>
<td>Ripple within passband (dB)</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
<td>≤ 0.5</td>
</tr>
<tr>
<td>DWDM Channel Insertion Loss (dB)</td>
<td>≤ 2.5</td>
<td>≤ 2.35</td>
<td>≤ 4.3</td>
<td>≤ 3.95</td>
<td>≤ 5.15</td>
</tr>
<tr>
<td>Optical Express Channel Insertion Loss (dB)</td>
<td>≤ 2.1</td>
<td>≤ 1.9</td>
<td>≤ 3.9</td>
<td>≤ 3.5</td>
<td>≤ 4.35</td>
</tr>
<tr>
<td>Non-Adjacent Channel Isolation (dB)</td>
<td>≥ 40</td>
<td>≥ 40</td>
<td>≥ 40</td>
<td>≥ 40</td>
<td>≥ 40</td>
</tr>
<tr>
<td>Adjacent Channel Isolation (dB)</td>
<td>≥ 30</td>
<td>≥ 30</td>
<td>≥ 30</td>
<td>≥ 30</td>
<td>≥ 30</td>
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<tr>
<td>Directivity (dB)</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
<td>≥ 50</td>
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<tr>
<td>Return Loss (dB)</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
<td>≥ 45</td>
</tr>
<tr>
<td>Polarization Dependent Loss (dB)</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
<td>≤ 0.2</td>
</tr>
<tr>
<td>Polarization Mode Dispersion (dB)</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
<td>≤ 0.1</td>
</tr>
</tbody>
</table>

### Mux and Demux with Connectors and 1310 nm port

| DWDM Channel Insertion Loss        | ≤ 2.95  | ≤ 2.75  | ≤ 4.75    | ≤ 4.35    | ≤ 5.2     | ≤ 4.75    | ≤ 6.1     | ≤ 5.55    | ≤ 6.55    | ≤ 5.95    |
| Isolation of 1310 nm channel       | ≥ 40    | ≥ 40    | ≥ 40      | ≥ 40      | ≥ 40      | ≥ 40      | ≥ 40      | ≥ 40      | ≥ 40      | ≥ 40      |

### Mux and Demux with Connectors and 5 percent monitoring port

| DWDM Channel Insertion Loss        | ≤ 3.1   | ≤ 2.9   | ≤ 4.9     | ≤ 4.5     | ≤ 5.3     | ≤ 4.9     | ≤ 6.2     | ≤ 5.7     | ≤ 6.7     | ≤ 6.1     |
| Monitoring Port Insertion Loss*    | ≤ 15.5  | ≤ 15.5  | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    |

### Mux and Demux with Connectors and 2 percent monitoring port

| DWDM Channel Insertion Loss        | ≤ 3.1   | ≤ 2.9   | ≤ 4.9     | ≤ 4.5     | ≤ 5.3     | ≤ 4.9     | ≤ 6.2     | ≤ 5.7     | ≤ 6.7     | ≤ 6.1     |
| Monitoring Port Insertion Loss*    | ≤ 15.5  | ≤ 15.5  | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    |

### Mux and Demux with Connectors and 1 percent monitoring port

| DWDM Channel Insertion Loss        | ≤ 3.1   | ≤ 2.9   | ≤ 4.9     | ≤ 4.5     | ≤ 5.3     | ≤ 4.9     | ≤ 6.2     | ≤ 5.7     | ≤ 6.7     | ≤ 6.1     |
| Monitoring Port Insertion Loss*    | ≤ 15.5  | ≤ 15.5  | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    | ≤ 15.5    |

**Notes:**
- *Monitor port insertion loss = Measurement from Mon port - Measurement from Com port*
- *All values specified are with connectors.*
### DWDM Channels

<table>
<thead>
<tr>
<th>100 GHz Channels</th>
<th>Wavelength (in nm)</th>
<th>Frequency (in THz)</th>
<th>100 GHz Channels</th>
<th>Wavelength (in nm)</th>
<th>Frequency (in THz)</th>
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</thead>
<tbody>
<tr>
<td>(DWDM Channel C36)</td>
<td>1548.51</td>
<td>193.60</td>
<td>(DWDM Channel C72)</td>
<td>1520.25</td>
<td>197.20</td>
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<td>(DWDM Channel C35)</td>
<td>1549.32</td>
<td>193.50</td>
<td>(DWDM Channel C71)</td>
<td>1521.02</td>
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<td>(DWDM Channel C34)</td>
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<td>(DWDM Channel C70)</td>
<td>1521.79</td>
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<td>(DWDM Channel C33)</td>
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<td>193.30</td>
<td>(DWDM Channel C69)</td>
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<td>196.90</td>
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<td>193.20</td>
<td>(DWDM Channel C68)</td>
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<td>196.80</td>
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<td>(DWDM Channel C66)</td>
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<td>1577.03</td>
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Popular channels:
- C60
- C59
- C58
- C57
- C56
- C55
- C54
- C53
- C52
- C51
- C50
- C49
- C48
- C47
- C46
- C45
- C44
- C43
- C42
- C41
- C40
- C39
- C38
- C37
- C36
- C35
- C34
- C33
- C32
- C31
- C30
- C29
- C28
- C27
- C26
- C25
- C24
- C23
- C22
- C21
## Accessories

### Reference Standard Single Frame Cross-Connect Jumper Part Numbers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>444401G3116004M</td>
<td>Jumper, Single-mode, SC APC to SC APC, 4 m long, 1.6 mm outer diameter</td>
</tr>
<tr>
<td>585801G3116004M</td>
<td>Jumper, Single-mode, SC UPC to SC UPC, 4 m long, 1.6 mm outer diameter</td>
</tr>
<tr>
<td>222201G3116004M</td>
<td>Jumper, Single-mode, LC APC to LC APC, 4 m long, 1.6 mm outer diameter</td>
</tr>
<tr>
<td>020201G3116004M</td>
<td>Jumper, Single-mode, LC UPC to LC UPC, 4 m long, 1.6 mm outer diameter</td>
</tr>
<tr>
<td>224401G3116004M</td>
<td>Jumper, Single-mode, LC APC to SC APC, 4 m long, 1.6 mm outer diameter</td>
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</table>

Corning recommends 1.6 mm jumpers for use in the Centrix solution. Full size Centrix frames support 2,880 to 4,320 jumpers predicated on the connector selection. Other configurations are available, please consult your customer service representative or sales manager for more information.

### Centrix™ Housing Mounting Brackets

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX-KIT-1RU-19CLP</td>
<td>Centrix mounting kit with jumper management clips for S1U housing mounting within a 19” rack</td>
</tr>
<tr>
<td>CTX-KIT-1RU-23CLP</td>
<td>Centrix mounting kit with jumper management clips for S1U housing mounting within a 23” rack</td>
</tr>
<tr>
<td>CTX-KIT-2RU-19CLP</td>
<td>Centrix mounting kit with jumper management clips for S2U housing mounting within a 19” rack</td>
</tr>
<tr>
<td>CTX-KIT-2RU-23CLP</td>
<td>Centrix mounting kit with jumper management clips for S2U housing mounting within a 23” rack</td>
</tr>
<tr>
<td>CTX-KIT-4RU-19CLP</td>
<td>Centrix mounting kit with jumper management clips for S4U housing mounting within a 19” rack</td>
</tr>
<tr>
<td>CTX-KIT-4RU-23CLP</td>
<td>Centrix mounting kit with jumper management clips for S4U housing mounting within a 23” rack</td>
</tr>
<tr>
<td>CTX-KIT-4RU-23HUB</td>
<td>Centrix mounting kit with jumper management hubs for S4U housing mounting within a 23” rack</td>
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### Centrix Stubbed MTP® Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTX-KIT-F1U-7289</td>
<td>Centrix front access frame 1U side mounted MTP adapter panel with 6 SM MTP adapters per panel (72F)</td>
</tr>
<tr>
<td>CTX-KIT-F1U-A889</td>
<td>Centrix front access frame 1U side mounted MTP adapter panel with 9 SM MTP adapters per panel (108F)</td>
</tr>
<tr>
<td>CTX-KIT-F2U-E489</td>
<td>Centrix front access frame 2U side mounted MTP adapter panel with 12 SM MTP adapters per panel (144F)</td>
</tr>
<tr>
<td>CTX-KIT-F2U-M689</td>
<td>Centrix front access frame 2U side mounted MTP adapter panel with 18 SM MTP adapters per panel (216F)</td>
</tr>
<tr>
<td>CTX-KIT-F4U-U889</td>
<td>Centrix front access frame 4U side mounted MTP adapter panel with 24 SM MTP adapters per panel (288F)</td>
</tr>
<tr>
<td>CTX-KIT-F4U-WW89</td>
<td>Centrix front access frame 4U side mounted MTP adapter panel with 36 SM MTP adapters per panel (432F)</td>
</tr>
<tr>
<td>CTX-KIT-S1U-7289</td>
<td>Centrix rear access frame 1U rear mounted MTP adapter panel with 6 SM MTP adapters per panel (72F)</td>
</tr>
<tr>
<td>CTX-KIT-S1U-A889</td>
<td>Centrix rear access frame 1U rear mounted MTP adapter panel with 9 SM MTP adapters per panel (108F)</td>
</tr>
<tr>
<td>CTX-KIT-S2U-E489</td>
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<td>Centrix rear access frame 4U rear mounted MTP adapter panel with 24 SM MTP adapters per panel (288F)</td>
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<tr>
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<td>Centrix rear access frame 4U rear mounted MTP adapter panel with 36 SM MTP adapters per panel (432F)</td>
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<tr>
<td>Centrix Bracket Kits &amp; Accessories</td>
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<td>----------------------------------------------------------------</td>
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<tr>
<td>CTX-KIT-S4U-MTP-SR</td>
<td>Centrix rear access frame 4U rear mounted PNP trunk strain relief bracket</td>
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<tr>
<td>CTX-KIT-SR-SA</td>
<td>Centrix housing cable strain-relief bracket only</td>
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<tr>
<td>CTX-KIT-SR-SA-UCC</td>
<td>Centrix housing cable strain-relief kit with UCC clamp for rear cable access applications</td>
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<tr>
<td>CTX-KIT-SR-FA-UCC</td>
<td>Centrix housing cable strain-relief kit with UCC clamp for front cable access applications</td>
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<tr>
<td>CTX-KIT-SR-CS</td>
<td>Buffer tube and ribbon internal cassette transition strain relief (12 per pack)</td>
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<tr>
<td>CTX-KIT-RT-DH</td>
<td>Centrix cassette kit for right-hand jumper routing (12 per pack)</td>
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<table>
<thead>
<tr>
<th>Centrix Installation &amp; Usage Accessories</th>
<th>Description</th>
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<tr>
<td>CTX-WORKSHELF</td>
<td>Centrix frame-mounted workshef</td>
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<td>CTX-SERVICEBKT</td>
<td>Centrix cassette service bracket</td>
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<tr>
<th>Centrix Mounting Kits into the OCC Cabinets</th>
<th>Description</th>
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<tbody>
<tr>
<td>CTX-KIT-S4U-OCC</td>
<td>Centrix mounting kit for S4U mounting within an OCC cabinet</td>
</tr>
<tr>
<td>CTX-KIT-JRG-OCC</td>
<td>Centrix jumper routing guide for use in OCC cabinets</td>
</tr>
<tr>
<td>CTX-KIT-CTR80-OCC</td>
<td>Centrix mounting kit for center channel within an OCC-080 cabinet only</td>
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## Resources

<table>
<thead>
<tr>
<th>Standard Recommended Procedures (SRPs)</th>
<th>Rear Cable Access</th>
<th>Front Cable Access</th>
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<tr>
<td>Centrix™ Frame Installation</td>
<td>003-950</td>
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<td>Centrix Empty Housing Installation</td>
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<tr>
<td>Centrix Stubbed Housing Installation</td>
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<tr>
<td>Centrix Pigtailed Housing and Cassette Installation</td>
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<tr>
<td>Jumper Routing in Centrix Frame</td>
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<td>Centrix Splitter/WDM Cassettes</td>
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<td>Centrix MTP® Stubbed Cassette Installation</td>
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<td>Centrix Platform Housing and MTP Module Installation</td>
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<td>Centrix IBU Installation - Centrix to EMF</td>
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<td>Centrix Housing Mounting Into 19 in / 23 in Frames</td>
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<td>Centrix Patch Panel Installation</td>
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<td>Centrix Mounting Brackets into the OCC-080-G Cabinet</td>
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