Base-12 Plug and Play Cable Assemblies
Europe—Euro Class Dca, Cca

Regional Availability - Global

MTP®/ MTP PRO to MTP/ MTP PRO Reels and Extenders

Combining Siemon's reduced-diameter RazorCore™ cable with 12-fiber MTP or MTP PRO connectors, Plug and Play Reels are designed to be quickly pulled and connected to Siemon Plug and Play Modules and MTP Adapter Plates. Custom configurable to precise application requirements, these reels efficiently put high-performance, high-density fiber connections exactly where you need them. Extenders offer Male MTP connectors on one end and female MTP with an MTP adapter on the other to allow field extension of MTP Reels.*

Multiple Fiber Types
Available in multimode (62.5/125, laser optimized OM3 and OM4 50/125) and singlenode

Custom Configurations
Available from 12 to 144 fiber counts in increments of 12 fibers

Reduced Pathway Fill
Siemon's RazorCore cable has significantly reduced cable O.D. resulting in less cable tray fill and pathway restrictions

Low Loss Versions
Siemon's Plug and Play cable assemblies are also available in low loss version allowing for multiple mated parts in 10/40/100G applications

Flame Standards, CPR Qualification
LSHF-FR (FRNC)
• EC 60332-2, IEC 60754-1, IEC 60754-2, IEC 61034
• EN 50575, Class Eca, Dca, Cca s1a, d1, a1

MTP PRO Connector
The MTP Pro option enables quick and easy polarity and pin changes in the field using an innovative hand-held tool

40 Gb/s and 100 Gb/s Ready
Enables simple upgrade path to future 40 Gb/s and 100 Gb/s applications over multimode OM3 and OM4 50/125 laser optimized fiber

*Note: Extenders are not available in armored configurations
## Product Information

### Cable—Optical and Physical Specifications

<table>
<thead>
<tr>
<th>CABLE TYPE</th>
<th>MULTIMODE</th>
<th>SINGLEMODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>LightSystem 62.5/125 (850/1300nm)</td>
<td>XGLO 50/125 OM3 (850/1300nm)</td>
<td>XGLO 50/125 OM4 (850/1300nm)</td>
</tr>
<tr>
<td>XGLO (1310/1383/1550nm)</td>
<td><strong>Fiber Cable Attenuation, MAX (dB/km)</strong></td>
<td>3.5/1.0</td>
</tr>
<tr>
<td><strong>LED Bandwidth, MIN (MHz/km)</strong></td>
<td>200/500</td>
<td>1500/500</td>
</tr>
<tr>
<td><strong>Effective Modal Bandwidth, MIN (MHz/km)</strong></td>
<td>N/A</td>
<td>2000</td>
</tr>
<tr>
<td><strong>Cable Outer Jacket, Color (Per TIA-598-C)</strong></td>
<td>Orange</td>
<td>Aqua</td>
</tr>
</tbody>
</table>

*XGLO® Singlemode fiber meets low water peak specifications per ITU-T G.652.C*

### Cable—Optical and Physical Specifications (Nominal)

<table>
<thead>
<tr>
<th>JACKET TYPE</th>
<th>Fiber Strand Count</th>
<th>Cable Diameter mm (in.)</th>
<th>Min Bend Radius Operational mm (in.)</th>
<th>Min Bend Radius Installation mm (in.)</th>
<th>Max Pulling Eye Diameter mm (in.)</th>
<th>*Required Duct Diameter mm (in.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LSOH Dca</td>
<td>12</td>
<td>3.0 (0.12)</td>
<td>3.0 (1.2)</td>
<td>45 (1.8)</td>
<td>44.5 (1.75)</td>
<td>69.9 (2.75)</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>3.8 (0.15)</td>
<td>38 (1.5)</td>
<td>57 (2.2)</td>
<td>44.5 (1.75)</td>
<td>69.9 (2.75)</td>
</tr>
<tr>
<td></td>
<td>36</td>
<td>6.5 (0.26)</td>
<td>38 (2.6)</td>
<td>98 (3.3)</td>
<td>63.5 (2.5)</td>
<td>88.9 (3.5)</td>
</tr>
<tr>
<td></td>
<td>48</td>
<td>6.5 (0.26)</td>
<td>65 (2.6)</td>
<td>98 (3.3)</td>
<td>63.5 (2.5)</td>
<td>88.9 (3.5)</td>
</tr>
<tr>
<td></td>
<td>72</td>
<td>7.0 (0.28)</td>
<td>70 (2.8)</td>
<td>105 (4.1)</td>
<td>63.5 (2.5)</td>
<td>88.9 (3.5)</td>
</tr>
<tr>
<td></td>
<td>96</td>
<td>12.5 (0.49)</td>
<td>125 (4.9)</td>
<td>188 (7.4)</td>
<td>88.9 (3.25)</td>
<td>114.3 (4.5)</td>
</tr>
<tr>
<td></td>
<td>144</td>
<td>14.9 (0.59)</td>
<td>149 (5.9)</td>
<td>224 (8.8)</td>
<td>88.9 (3.25)</td>
<td>114.3 (4.5)</td>
</tr>
<tr>
<td>LSOH Cca</td>
<td>12</td>
<td>3.0 (0.12)</td>
<td>30 (1.2)</td>
<td>60 (2.3)</td>
<td>44.5 (1.75)</td>
<td>69.9 (2.75)</td>
</tr>
<tr>
<td></td>
<td>24</td>
<td>3.6 (0.14)</td>
<td>30 (1.2)</td>
<td>72 (2.8)</td>
<td>44.5 (1.75)</td>
<td>69.9 (2.75)</td>
</tr>
</tbody>
</table>

*Pulling eye assembly shall be capable of passing through these minimum duct diameter requirements during product installation. Pulling eye max pull force 18.1kg (40lbs)*

### Connectors—Optical Specifications

<table>
<thead>
<tr>
<th>FIBER TYPE</th>
<th>MAX INSERTION LOSS (db)</th>
<th>MIN RETURN LOSS (db)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance Class</td>
<td>MTP</td>
<td>LC</td>
</tr>
<tr>
<td>10G 50/125um Multimode OM3</td>
<td>XGLO 300</td>
<td>0.4</td>
</tr>
<tr>
<td>10G 50/125um Multimode OM4</td>
<td>XLGO 550</td>
<td>0.4</td>
</tr>
<tr>
<td>Laser Optimized 50/125 Multimode OM3</td>
<td>XGLO 300 Low Loss</td>
<td>0.2</td>
</tr>
<tr>
<td>Laser Optimized 50/125 Multimode OM4</td>
<td>XLGO 550 Low Loss</td>
<td>0.2</td>
</tr>
<tr>
<td>Singlemode OS2</td>
<td>XLGO</td>
<td>0.6</td>
</tr>
</tbody>
</table>

### Connectors—Physical Specifications

<table>
<thead>
<tr>
<th>CONNECTOR TYPE</th>
<th>HOUSING COLOR</th>
<th>BOOT COLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC Intermateability Compliance</td>
<td>IEC Intermateability Compliance</td>
<td>SM</td>
</tr>
<tr>
<td>MTP</td>
<td>IEC 61754-7</td>
<td>TIA/EIA-604-5</td>
</tr>
</tbody>
</table>
Product Information

Siemon Plug and Play Modules

Siemon LC to MTP® and SC to MTP Plug and Play modules provide a quick and efficient way to deploy up to 24 LC or 12 SC fibers in a single module. These factory terminated and tested ports are protected within the housing for reliable high performance and simply connected via 12-strand MTP ports. Modules are available in Multimode (62.5/125 and XGLO® laser optimized 50/125 OM3/OM4) and Singlemode cable.

12-Fiber Plug and Play Module with 1 MTP Port, Black Module

**Configuration**

<table>
<thead>
<tr>
<th>Interface</th>
<th>L = Low Loss</th>
<th>Blank = Standard Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC = LC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SC = SC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Fiber Type**

- 5L = OM3, XGLO 300 50/125 Multimode, Aqua
- 5V = OM4, XGLO 550 50/125 Multimode, Aqua
- EV = OM4, XGLO 550 50/125 Multimode, Erika Violet
- SM = OS1/OS2, Singlemode, Blue

24-Fiber LC Plug and Play Module with 2 MTP Ports, Black Module

**Configuration**

<table>
<thead>
<tr>
<th>Fiber Type</th>
<th>L = Low Loss</th>
<th>Blank = Standard Loss</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL = OM3, XGLO 300 50/125 Multimode, Aqua</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SV = OM4, XGLO 550 50/125 Multimode, Aqua</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EV = OM4, XGLO 550 50/125 Multimode, Erika Violet</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SM = OS1/OS2, Singlemode, Blue</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

MTP to MTP Adapter Plates

Siemon MTP Adapter Plates offer a user friendly “pass-through” option for MTP connectors. Fitting within Siemon’s fiber enclosures and VersaPOD vertical patch panels, these plates secure MTP connectors, allowing efficient implementation of MTP to MTP reels and extenders as well as MTP to LC Trunks for direct equipment and patching connections.

Flexible Configurations

1, 2, 4, 6 and 8 port versions available, supporting both Singlemode and Multimode

High Density

Supports up to 96 fibers per adapter plate - providing up to 1152 fibers in 4U

40 Gb/s and 100 Gb/s Ready

Enables simple upgrade path to future 40 Gb/s and 100 Gb/s applications over Multimode 50/125 laser optimized fiber

Popular RIC Adapter Footprint

Fits within RIC, FCP and SWIC Siemon fiber enclosures and VersaPOD vertical patch panels
Ordering Information

Non-Armored

**Fiber Plug & Play Cable Assembly, 12-Fiber MTP Connectors**

Configuration

- R = Standard Loss
- L = Ultra Low Loss
- E* = Standard Loss Extender
- B* = Low Loss Extender

Fiber Count***

- 12 = 12 Fibers
- 24 = 24 Fibers
- 36 = 36 Fibers
- 48 = 48 Fibers
- 72 = 72 Fibers
- 96 = 96 Fibers
- 144 = 144 Fibers

Fiber Type

- SL = OM3 XGLO 300 50/125 Multimode, Aqua
- SV = OM4 XGLO 550 50/125 Multimode, Aqua
- EV = OM4, XGLO 550 50/125 Multimode, Erika Violet
- SM = OS1/OS2 Singlemode, Yellow

Jacket Rating

- L = Class Dca
- **C = Class Cca

Ordering Information

**Fiber Plug Play Cable Assembly, 12-Fiber MTP PRO Connectors**

Configuration

- R = Standard Loss
- L = Low Loss

Fiber Count

- 12 = 12 Fibers
- 24 = 24 Fibers
- 48 = 48 Fibers
- 72 = 72 Fibers
- 96 = 96 Fibers
- E4 = 144 Fibers

Fiber Type

- L = OM3, XGLO 300 50/125 Multimode, Aqua
- V = OM4, XGLO 550 50/125 Multimode, Aqua
- E = OM4, XGLO 550 50/125 Multimode, Erika Violet
- A = OS1/OS2 Singlemode, Yellow

Jacket Rating

- L = Class Dca
- **C = Class Cca

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

MTP PRO Activation Tool and PIN Exchangers Ordering Information:

<table>
<thead>
<tr>
<th>PART #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FT-MP-AT</td>
<td>Field Termination, MTP PRO, ActivationTool</td>
</tr>
<tr>
<td>FT-MP-PE-SME</td>
<td>Field Termination, MTP PRO, Pin Exchanger with SM Elite Pins</td>
</tr>
<tr>
<td>FT-MP-PE-MME</td>
<td>Field Termination, MTP PRO, Pin Exchanger with MM Elite Pins</td>
</tr>
<tr>
<td>FT-MP-PE-SM</td>
<td>Field Termination, MTP PRO, Pin Exchanger with SM, with Out Pins</td>
</tr>
<tr>
<td>FT-MP-PE-MM</td>
<td>Field Termination, MTP PRO, Pin Exchanger with MM, with Out Pins</td>
</tr>
</tbody>
</table>

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