**Technical Information**

QuickNet™ MTP® Fiber Optic Cassettes consist of pre-terminated LC or SC adapters for quick and easy deployment in high density applications and provide efficient utilization of rack space and design flexibility. These cassettes comply with all multimode and singlenode channel requirements. QuickNet™ MTP® Fiber Optic Cassettes are available with a standard channel insertion loss of 0.75dB max and an optimized loss of 0.5dB max. The cassettes offer 12-fiber MTP® adapter(s) on the rear of the units routed to duplex LC, duplex SC, or simplex SC adapters on the front patch field. Equipped with LC duplex adapters, the cassette houses a maximum density of 24 fibers for a total of four cassettes or 96 fibers when incorporated into a 1 RU patch panel. Adapter housing colors follow TIA/EIA-568-C.3 suggested color identification scheme. QuickNet™ MTP® Fiber Optic Cassettes interconnect with high-density fiber cable assemblies for quick connection of remote or data center applications.

**Application**

Application areas include key elements as specified in Data Center Cabling Standard TIA 942 cross connects in main, horizontal, and equipment distribution areas.

### Construction

<table>
<thead>
<tr>
<th>Fiber count:</th>
<th>6, 12, and 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber types:</td>
<td>Multimode: OM1 62.5/125μm, OM3 50/125μm, OM4 50/125μm; Singlennode: OM1/OS2 9/125μm</td>
</tr>
<tr>
<td>Front connectivity:</td>
<td>LC Duplex, SC Duplex or SC Simplex adapters; Multimode with PC Polish; Singlemode with UPC Polish</td>
</tr>
</tbody>
</table>

### Split Sleeve Material (SC or LC adapters):

<table>
<thead>
<tr>
<th>Material</th>
<th>OM4, OM3, and Singlemode cassettes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zirconia ceramic</td>
<td>OM1 cassettes</td>
</tr>
<tr>
<td>Phosphor bronze</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Rear MTP® Connectivity:</th>
<th>Multimode: MTP® adapter(s) with male ferrules (pins) and PC Polish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Singlemode: MTP® adapters with male ferrules (pins) and APC Polish</td>
<td></td>
</tr>
</tbody>
</table>

### Environmental Properties

- **Operating temperature:** 0°C to +70°C (32°F to 158°F)
- **Storage and shipping temperature:** -40°C to +75°C (-40°F to 167°F)

### Performance Properties

- **Insertion loss (Link loss):**
  - Ultra Low Loss (per channel): 0.35dB (max).
  - Optimized Loss (per channel): 0.5dB (max).
  - Standard Loss (per channel): 0.75dB (max).
- **Return loss: Per channel:**
  - >20dB (OM1)
  - >26dB (OM3/OM4)
  - >28dB (OM1/OS2)

### Standards

Connectivity meets or exceeds TIA/EIA-568-C.3 performance requirements. Supports IEEE 802.3ae and ANSI T11.2 (Fibre Channel) channel and link specifications. Compliant with ROHS 2002/95/EC.

---

*MTP is a registered trademark of US Conec Ltd.*
QuickNet™ MTP* Fiber Optic Cassettes

**Part Number Configurator**

Example: FC2ZO-24-10AS = Fiber, cassette, second generation, OM4 10 GbE, optimized, 24-fiber with duplex LC adapter and standard Method A polarity.

<table>
<thead>
<tr>
<th>CHARACTER</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXAMPLE</td>
<td>F</td>
<td>C</td>
<td>2</td>
<td>Z</td>
<td>O</td>
<td>–</td>
<td>2</td>
<td>4</td>
<td>–</td>
<td>1</td>
<td>0</td>
<td>A</td>
<td>S</td>
</tr>
</tbody>
</table>

**1 – Fiber Product**
- F = Fiber

**2 – Product**
- C = Cassette

**3 – Generation**
- 2 = Second generation

**4 – Fiber Type**
- 9 = OS1/OS2 9/125µm
- 6 = OM1 62.5/125µm
- X = OM3 10Gig 50/125µm
- Z = OM4 10Gig 50/125µm

**5 – Fiber Performance**
- A = Ultra Low
- N = Standard
- O = Optimized

**6 – Dash**

**7 – Numbers of Fibers**
- 06 = 06-fiber total
- 12 = 12-fiber total
- 24 = 24-fiber total

**9 – Dash**

**10 and 11 – Adapter Type**
- 03 = Duplex SC Adapter (6 or 12-fiber only)
- 10 = Duplex LC Adapter (12 or 24-fiber only)
- 3S = Simplex SC Adapter (6 or 12-fiber only)

**12 and 13 – Polarity**
- AS = Method A, standard
- AF = Modified Method A, pair flipped
- B1 = Method B, B1 (1-1 array)
- B2 = Method B, B2 (1-2 array)
- U = Universal

Note: AS and AF used as a pair in a two cassette method A link. B1 and B2 used as a pair in a two cassette method B link.

**QuickNet™ MTP Fiber Optic Cassettes**

Front View (shown without dustcaps)

Dimensions are in inches [Dimensions in brackets are metric]

For a copy of Panduit product warranties, log on to www.panduit.com/warranty