MTP Patchcord

Description:
The MTP patchcord provides quick connection specifically for multifiber cable, up to 24 fibers. The MTP connectors are designed for termination of ribbon fiber or loose individual fibers. Connection integrity is provided by the spring action side latch housing and alignment is achieved with high precision guide pins. The housing are colored-coded to differentiate single mode and multimode. Removable housing allow for quick change of pin clamps, ferrule cleaning or connector repolishing.

Features:
- Multifiber cable termination
- Parallel optics transmission systems
- Single mode and Multimode applications
- Available angled and flat ferrule style
- Up to 24 fibers termination
- Push-on / Pull-off latching connector
- Easy connection and disconnection
- No need for matching material
- Fiber protrusion
- Low Insertion loss & Reflection
- Simple & Low cost
- IEC61754-7, TIA/EIA 604-5

Application:
- Patchcords: Bare fiber ribbon type, ruggedized cable type or loose individual fibers cable
- Fan-out cord with single fiber connectors
- Parallel Optics transmission:
  - 40G and 100G IEEE 802.3
  - Optical Inter-networking Forum (OIF) Compliant
  - QSFP, CXP, CFP, PSM4 standards

Specifications:

<table>
<thead>
<tr>
<th></th>
<th>Single mode (angled 8°)</th>
<th>Multimode (flat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Insertion Loss (dB)</td>
<td>Standard 0.25 typ. 0.75 max</td>
<td>0.20 typ. 0.60 max</td>
</tr>
<tr>
<td></td>
<td>Premium 0.10 typ. 0.35 max</td>
<td>0.10 typ. 0.35 max</td>
</tr>
<tr>
<td>Optical Return Loss (dB)</td>
<td>&gt; 60</td>
<td>&gt; 20</td>
</tr>
<tr>
<td>Operating Temperature (°C)</td>
<td>-10 to +60</td>
<td></td>
</tr>
<tr>
<td>Durability</td>
<td>&lt; 0.3 dB change (per EIA-455-21A) 500 remates</td>
<td>&lt; 0.2 dB change (per EIA-455-21A) 1000 remates</td>
</tr>
</tbody>
</table>

Note:
1) relative to controlled environment
   uncontrolled environment -40 to +80 °C on request

Connector colors:
- SM Standard green housing
- SM Premium mustard (yellow) housing
- MM OM1/OM2 beige housing
- MM OM3/OM4 aqua housing
- MM Premium aqua housing
Ordering code:

AAA - XX XXX - XX - (XX)^2 - (L2)^2-L

<table>
<thead>
<tr>
<th>AAA</th>
<th>Connector</th>
<th>Connector Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NMTXYZ</td>
<td>Angled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MTPXYZ</td>
<td>Flat</td>
</tr>
</tbody>
</table>

X - number of fibers (4, 8, 12, 16, 24)
Y - Male (M) or Female (F)
Z - Premium (P)

or Standard (without mark)

Note: 2) define jacket color, if requested
3) L2 - fanout length if defined
4) X - according fiber subtypes (e.g. G.657A1)
5) type: TB-12-S7A1-LSZH/OFNP-YE

XX - cable connection
JC - cable crossed
JS - cable straight
PT - pigtail

XX - type of fiber, cable
XXX - type of fiber

OM1 - MM 62.5/125 µm
OM2-OM4 - MM 50/125 µm
RF - ribbon fiber
OM2-OM4 - MM 50/125 µm
RC - ribbon cable
S2D - SM 9/125 µm (G.652D)
TB - tight buffered cable
S5X4 - SM 9/125 µm (G.655X)
S7X4 - SM 9/125 µm (G.657X)

Fan-out fiber color:

<table>
<thead>
<tr>
<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>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Orange</td>
<td>Green</td>
<td>Brown</td>
<td>Gray</td>
<td>White</td>
<td>Red</td>
<td>Black</td>
<td>Yellow</td>
<td>Violet</td>
<td>Rose</td>
<td>Aqua</td>
</tr>
</tbody>
</table>

Cable jacket color code:
YE - yellow: SM
OG - orange: OM1, OM2
AQ - aqua: OM3, OM4

Fibers interconnection:

Cross cable

Straight cable

Fan-out cord

Sample:

NMTP12MP/FP-TBS7A1-JC-YE-010
NMTP12FP-12xNLC-TBOM1-OG-0.2-005