Fiber Optic Connections for MOST Networks
TE Connectvity (TE) began its commitment to fiber optic technology in 1975. Since then, TE continues to provide solutions that go from the circuit board to the end-user. TE is a market leader for design and process development of in vehicle optical communication solutions. We offer a product range of physical layer components for devices communicating on Media Oriented System Transport (MOST), network.

TE’s fiber optics provide a complete range of components for MOST 25 and MOST 150 connectors including PCB and harness connectors, cable assemblies and processing equipment. The development of such components was backed by TE’s know how of optics and collaboration with Tier 1 and Tier 2 customers. TE developed an optical high speed multimedia network based on 1000 µm Polymer Optical Fiber (POF) supporting data speed of 25 Mbps and 150 Mbps.

**Benefits and Key Features**

- No EMI/EMC interferences at the cable.
- Light weight of POF.
- Application is based on optical ring structure with various nodes and hence less cabling is required.
- Reflow and wave soldering versions available for headers.
- Pigtail versions have the flexibility to be soldered at the header and at the connector independently. This flexibility ensures that the plastic of fiber is not damaged by solder heat.
- Wide range of connectors and headers available.
- Cost efficient-design and process perfectly aligned for automotive market needs.
- Modular and scalable solution that fits to automotive connectivity building blocks and OEMs.
- Cable harness product range along with repair tool set available.

**Applications**

- Head Unit
- DVD Player
- Instrument Cluster
- Amplifier
- TV Tuner
- Rear Seat Entertainment

**Market Compatibility**

- MOST cooperation compliant
- 1000 µm Polymer Optical Fiber (POF)
- Available for MOST 25 and MOST 150 protocol
- ISO standard (preliminary work item)
## MOST Micro-Pigtails

<table>
<thead>
<tr>
<th>MOST Micro-Pigtails</th>
<th>Description</th>
<th>TE PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOST 25</td>
<td>90° semi-shielded MOST 25</td>
<td>0-2141577-1, 2-2141577-1</td>
</tr>
<tr>
<td>MOST 25</td>
<td>90° fully-shielded MOST 25</td>
<td>1-214103-1, 1-2112079-1</td>
</tr>
<tr>
<td>MOST 150</td>
<td>180° MOST 25</td>
<td>1-2141352-1, 1-2141352-2</td>
</tr>
</tbody>
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## MOST 25 Flexible Pigtails

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<tr>
<td>2 piece flexible pigtail POF FOT</td>
<td>In combination with cable assembly A/B</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>2 Position Cable Assembly</td>
<td>1-2208334-1 (compatible to the following MOST interfaces: 2+0, 2+4, 2+12, 2+20)</td>
</tr>
<tr>
<td>B</td>
<td>4 Position Cable Assembly</td>
<td>1-2208207-1 (compatible to MOST interface 4+40)</td>
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## Typical components in MOST Micro-Pigtails

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<td>MOST 150</td>
<td>180° MOST 25</td>
<td>1-2208264-3 in combination with 1-2208265-1</td>
</tr>
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</table>

## Typical components in MOST pigtail

- EMI shield
- Fiber Optic Transceiver (FOT)
- Fiber optic waveguides
- Transportation Cap
- EMI Shield
- Fiber Optic Transceiver (FOT)
- Contact element
- Housing

Volumes of all PNs are subjected to availability and confirmation from Product Engineering.

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