The high speed connectors complete the line of 2M series connector and are suitable for Category 6.

**Specifications:**
- Transmission performance meets Category 6 specification up to 250 MHz for 1 GigaBit Ethernet transmission.
- Screw-coupling connector
- IP68 solution
- For cable diameter up to 8 mm
- Designed for AWG 22, 23 and 24 (AWG 26 recommended cable length 60 m)
- Enhanced shielding

**Applications:**
- Harsh environment (NiCorAl™ treatment)
- Defense applications
- Data communication
- Ground forces tactical communications
- Ethernet switch
- Ruggedized outdoor solution

These products are specifically designed to work in harsh environments of temperature extremes, humidity, and vibration.
Models

**FMN.2M.514** Straight plug, key (N) or keys (P and U) with knurled grip and mold stop

Part Number Example:
FMN.2M.514.XLC6
FMN.2M.514.ILC6 (salt spray resistant)

**FGN.2M.514** Straight plug, key (N) or keys (P and U) with arctic grip and mold stop

Part Number Example:
FGN.2M.514.XLC6
FGN.2M.514.ILC6 (salt spray resistant)

**PMN.2M.514** Free socket, key (N) or keys (P and U) with knurled grip and mold stop

Part Number Example:
PMN.2M.514.XLM6
PMN.2M.514.ILM6 (salt spray resistant)

Note: For arctic grip, order PHN model.

**PEN.2M.514** Fixed socket, key (N) or keys (P and U) with mold stop (back panel mounting)

Part Number Example:
PEN.2M.514.XLM6
PEN.2M.514.ILM6 (salt spray resistant)

**PFN.2M.514** Fixed socket with square flange, key (N) or keys (P and U) with mold stop

Part Number Example:
PFN.2M.514.XLM6
PFN.2M.514.ILM6 (salt spray resistant)
HEN.2M.514 Fixed socket, nut fixing, key (N) or keys (P and U) for printed circuit, watertight (back panel mounting)

Part Number Example:
HEN.2M.514.XLNK
HEN.2M.514.ILNK (salt spray resistant)

Insert configuration and electrical characteristics

<table>
<thead>
<tr>
<th>Male crimp contacts</th>
<th>Female crimp contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Male crimp contacts" /></td>
<td><img src="image2" alt="Female crimp contacts" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reference</th>
<th>Number of Contacts</th>
<th>øA (mm)</th>
<th>Crimp</th>
<th>Test Voltage (kV rms)</th>
<th>Contact-Contact</th>
<th>Contact-Shell</th>
<th>Rated Current (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>514</td>
<td>8</td>
<td>0.7</td>
<td></td>
<td>1.5</td>
<td>1.5</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

Panel cut-out

![HEN / PEN](image3)  ![PFN](image4)

Note: Mounting nut torque (on panel): 2.0 Nm.

Cable stripping lengths

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Connector (mm)</th>
<th>Dim. (mm)</th>
<th>L1</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td>514</td>
<td>0.7</td>
<td>20 24</td>
<td>5</td>
<td>15</td>
</tr>
</tbody>
</table>

Tooling

Recommended crimping tool:
DCE.91.072.MVCM.

Part number system

Plug

<table>
<thead>
<tr>
<th>FM</th>
<th>M</th>
<th>5</th>
<th>1</th>
<th>4</th>
<th>X</th>
<th>L</th>
<th>C</th>
<th>T</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMN.2M.514.XLCTS = straight plug with key (N), 2M series, outer shell in anthracite nickel-plated aluminium alloy, PEEK insulator, male crimp contacts, with mold stop, 6 mm cable outer diameter.</td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

Note: 1) anthracite colour / 48 hours salt fog resistance. 2) anthracite colour / 500 hours salt fog resistance RoHS 2/REACH.

Maximum cable outer ø: 6, 7 and 8 (mm)

Variant:
T = mold stop / P = potted

Contact: crimp / print

Insulator: L = PEEK

Housing:
X = Nickel-plated aluminium alloy 1)
I = Nickel fluorocarbon polymer alu. alloy 2)

Note: 1) anthracite colour / 48 hours salt fog resistance. 2) anthracite colour / 500 hours salt fog resistance RoHS 2/REACH.