NanoMQS/MCON 0.50 PORTFOLIO

MINIATURIZED AUTOMOTIVE CONNECTION SYSTEMS
INNOVATIVE TECHNOLOGIES

TE Connectivity (TE) is a leader in automotive connectivity and sensor technology. Our engineers are always working to meet complex requirements. We connect nearly every electronic function in the vehicle – from alternative power systems to data connectivity and sensor technologies. Our technologies withstand harsh environments and tolerate high temperature, vibration, shock, pressure and long-life in electronic control systems.

INTERCONNECTION SYSTEMS

Our electrical and electronic interconnection products and solutions are used to electrically and mechanically connect wires and cables, printed circuit boards, integrated circuit packages, batteries and more.

HYBRID & ELECTRIC MOBILITY SOLUTIONS

Our technologies leverage decades of innovation and experience with high-voltage transmission and distribution. Our hybrid and electric mobility solutions include a complete line of connectors, terminals, sensors, cable assemblies, contactors, and battery connection protection to help safeguard the flow of power in hybrid and electric vehicles.

DATA CONNECTIVITY

Our wide range of data connectivity solutions are ideal for consumer port connections, high data rate applications, next-generation harness architecture, board-to-board connections and vehicle-to-vehicle communication.

WIRELESS

HIRSCHMANN MOBILITY Wireless Solutions enable high-performance signal reception and transmission for vehicles. We offer customized antenna systems as well as radio tuner systems for all common global standards. Together with the TE connectors solutions we provide One-Stop-Connectivity Solutions with components along the signal chain that are optimized and compatible with each other to provide best signal quality and real-time data.
SENSOR SOLUTIONS
Customers rely on our sensor technology to provide data for control, adaptation and response of vehicle functions and features that increase safety, comfort, efficiency, and more. We collaborate to provide solutions for demanding and harsh applications such as automated transmissions, engines, chassis, clutch, brake and exhaust. Our products can be found in vehicles traveling the world’s roads and highways.

CABLE ASSEMBLY
TE is your partner for vehicle-specific cable assemblies. We offer research and development capabilities, prototypes and samples, as well as manufacturing facilities.

RELAYS
From passenger comfort and infotainment to higher DC voltages and power levels to harsh environments, our relays and contactors provide critical switching functions in multiple vehicle applications. With increased contact gaps and other key design features, our relays are ideal for harsh environments such as shock and vibration.

APPLICATION TOOLING
Ensuring a quality connection is essential to delivering high performance and reliability in extreme environments. From crimping a terminal onto a wire or pressing a connector onto a board, our equipment and services are designed to maximize production uptime, extend tooling life and minimize manufacturing waste.
### IP Code | Elements and Significance acc. to IEC 60529 and DIN 40050

<table>
<thead>
<tr>
<th>1st Digit</th>
<th>Against Foreign Objects (incl. Dust)</th>
<th>1st Digit</th>
<th>Against Foreign Objects (incl. Dust)</th>
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<tbody>
<tr>
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<td>5K</td>
<td>Dust protected.</td>
</tr>
<tr>
<td>1</td>
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<td>6K</td>
<td>Dust tight.</td>
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<tr>
<td>2</td>
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### IP Code | Elements and Significance acc. to IEC 60529 and DIN 40050

<table>
<thead>
<tr>
<th>2nd Digit</th>
<th>Against Water</th>
<th>2nd Digit</th>
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<tbody>
<tr>
<td>0</td>
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<td>5</td>
<td>Protected against jetting water.</td>
</tr>
<tr>
<td>1</td>
<td>Protected against vertically dripping water.</td>
<td>6</td>
<td>Protected against powerfully jetting water.</td>
</tr>
<tr>
<td>2</td>
<td>Protected against dripping water when tilted up to 15°.</td>
<td>6K</td>
<td>Protected against powerfully jetting water with increased pressure (Automotive).</td>
</tr>
<tr>
<td>3</td>
<td>Protected against spraying water (up to 60° inclination).</td>
<td>7</td>
<td>Protected against the temporary effects of immersion up to 1 meter.</td>
</tr>
<tr>
<td>4</td>
<td>Protected against splashing water.</td>
<td>8</td>
<td>Protected against continuous submersion agreed with customer, but more severe than code 7.</td>
</tr>
<tr>
<td>4K</td>
<td>Protected against splashing water with increased pressure.</td>
<td>9K</td>
<td>Protected against high-pressure/steam-jet cleaning (Automotive).</td>
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</tbody>
</table>
# NanoMQS / MCON 0.50 Portfolio

## 1 Miniaturization Terminals

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>11</td>
</tr>
<tr>
<td>Receptacle Contacts</td>
<td>12</td>
</tr>
<tr>
<td>Tab Contacts</td>
<td>13</td>
</tr>
<tr>
<td>NanoMQS crimp-optimized</td>
<td>14</td>
</tr>
<tr>
<td>NanoMQS FFC/FPC Terminal</td>
<td>15</td>
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<tr>
<td>MCON 0.50 Terminal</td>
<td>16</td>
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<td>NanoMultispring Press-Fit Pin</td>
<td>17</td>
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</table>

## 2 Miniaturization Top/Side Latch, Unsealed

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>19</td>
</tr>
<tr>
<td>2.1 NanoMQS Top Latch, Unsealed</td>
<td></td>
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<tr>
<td>Receptacle Housings - 8 Positions</td>
<td>20</td>
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<tr>
<td>Receptacle Housings - 12 Positions</td>
<td>21</td>
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<tr>
<td>Receptacle Housings - 20 Positions</td>
<td>22</td>
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<tr>
<td>Receptacle Housings - 32 Positions</td>
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<tr>
<td>2.2 NanoMQS Top Latch, FFC/FPC</td>
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<td>Receptacle Housings - FFC/FPC - 2 Row Design - 8 Positions</td>
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<td>Receptacle Housings - FFC/FPC - 2 Row Design - 20 Positions</td>
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<td>Receptacle Housings - FFC/FPC - 2 Row Design - 32 Positions</td>
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<td>2.3 NanoMQS Side Latch, Unsealed</td>
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<tr>
<td>Receptacle Housings - 2 Row Design – 6 Positions</td>
<td>27</td>
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<td>Receptacle Housings - 2 Row Design – 14 Positions</td>
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<td>Receptacle Housings - 2 Row Design – 20 Positions</td>
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<td>Receptacle Housings - 1 Row Design – 7 Positions</td>
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<td>Receptacle Housings - 1 Row Design – 9 Positions</td>
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<td>Receptacle Housings - 1 Row Design – 11 Positions</td>
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<tr>
<td>Receptacle Housings - 2 Row Design – 4 Positions</td>
<td>41</td>
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</tbody>
</table>
## Table of Contents

### NanoMQS/MCON 0.50 PORTFOLIO

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
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<tbody>
<tr>
<td><strong>2</strong> Top/Side Latch, Unsealed</td>
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<td>Receptacle Housings - 2 Row Design - 6 Positions</td>
<td>42</td>
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<td>Receptacle Housings - 2 Row Design - 10 Positions</td>
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<td>46</td>
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<td>Receptacle Housings - 2 Row Design - 16 Positions</td>
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<tr>
<td>Receptacle Housings - 2 Row Design - 18 Positions</td>
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<td>Receptacle Housings - 2 Row Design - 20 Positions</td>
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<tr>
<td><strong>2.4</strong> NanoMQS Side Latch, Unsealed, with CPA</td>
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<td>Receptacle Housings - 1 Row Design - 2 Pos with CPA</td>
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<td>Receptacle Housings - 1 Row Design - 3 Pos with CPA</td>
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<td>Receptacle Housings - 2 Row Design - 16 Pos with CPA</td>
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<tr>
<td>Receptacle Housings - 2 Row Design - 18 Pos with CPA</td>
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<td>Receptacle Housings - 2 Row Design - 20 Pos with CPA</td>
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<tr>
<td><strong>3</strong> Miniaturization Sealed housings</td>
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<tr>
<td>Introduction</td>
<td>65</td>
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<td><strong>3.1</strong> NanoMQS Sealed Housings</td>
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<td>Receptacle Housings - 2 Positions</td>
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<td>Receptacle Housings - 4 Positions</td>
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<tr>
<td>Receptacle Housings - 2-6 Positions</td>
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<td>Receptacle Housings - 6 Positions</td>
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<td>Receptacle Housings - 8 Positions</td>
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</table>
### NanoMQS / MCON 0.50 Portfolio

#### 3.2 MCON Sealed Housings
- Receptacle Housings - 1 Row Design - 3 Positions  
  Page 71
- Receptacle Housings - 1 Row Design - 4 Positions  
  Page 72
- Receptacle Housings - 1 Row Design - 6 Positions  
  Page 73
- Receptacle Housings - 2 Row Design - 4 Positions  
  Page 74
- Receptacle Housings - 2 Row Design - 6 Positions  
  Page 75
- Receptacle Housings - 2 Row Design - 8 Positions  
  Page 76
- Receptacle Housings - 2 Row Design - 10 Positions  
  Page 77
- Receptacle Housings - 2 Row Design - 12 Positions  
  Page 78

#### 4 MINIATURIZATION HEADERS

### 4.1 NanoMQS TOP LATCH THT (PIN-IN-PASTE) HEADERS
- PCB Headers – Right Angle – 8 Positions  
  Page 80
- PCB Headers – Right Angle – 12 Positions  
  Page 81
- PCB Headers – Right Angle – 20 Positions  
  Page 82
- PCB Headers – Right Angle – 32 Positions  
  Page 83
- PCB Headers – Vertical – 8 Positions  
  Page 84
- PCB Headers – Vertical – 12 Positions  
  Page 85
- PCB Headers – Vertical – 20 Positions  
  Page 86
- PCB Headers – Vertical – 32 Positions  
  Page 87

### 4.2 NanoMQS SIDE LATCH THT (PIN-IN-PASTE) HEADERS
- PCB Headers – 2 Row Design – 6 Positions  
  Page 88
- PCB Header – 2 Row Design – 20 Positions  
  Page 89
- PCB Headers – Right Angle – 2 Row Design – 6 Positions  
  Page 90
- PCB Headers – Right Angle – 2 Row Design – 10 Positions  
  Page 91

### 4.3 NanoMQS SMD HEADERS
- PCB Headers – Right Angle – 1 Row Design – 4 Positions  
  Page 92
- PCB Headers – Right Angle – 1 Row Design – 5 Positions  
  Page 93
- PCB Headers – Right Angle – 1 Row Design – 6 Positions  
  Page 94
- PCB Headers – Right Angle – 1 Row Design – 7 Positions  
  Page 95
- PCB Headers – Right Angle – 1 Row Design – 8 Positions  
  Page 96
- PCB Headers – Right Angle – 1 Row Design – 10 Positions  
  Page 97
- PCB Headers – Vertical Angle – 1 Row Design – 4 Positions  
  Page 98
- PCB Headers – Vertical Angle – 1 Row Design – 5 Positions  
  Page 99
# Table of Contents

4.3 NanoMQS SMD HEADERS

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<tr>
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<td>PCB Headers - Vertical Angle - 1 Row Design - 8 Positions</td>
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<td>PCB Headers - Vertical Angle - 2 Row Design - 12 Positions</td>
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<td>PCB Headers - Vertical Angle - 2 Row Design - 16 Positions</td>
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5 APPLICATION TOOLING

<table>
<thead>
<tr>
<th>Section</th>
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<tbody>
<tr>
<td>TE CONNECTIVITY ONLINE</td>
<td>118</td>
</tr>
<tr>
<td>GLOBAL CONTACTS</td>
<td>119</td>
</tr>
<tr>
<td>IMPRINT</td>
<td>119</td>
</tr>
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</table>
Blade Size vs. Current

<table>
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<th>Wire Size</th>
<th>Current (Amp)</th>
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<tr>
<td>6.00 mm²</td>
<td>36</td>
</tr>
<tr>
<td>4.00 mm²</td>
<td>29</td>
</tr>
<tr>
<td>2.50 mm²</td>
<td>27</td>
</tr>
<tr>
<td>1.50 mm²</td>
<td>24</td>
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<tr>
<td>1.00 mm²</td>
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<tr>
<td>0.75 mm²</td>
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<tr>
<td>0.35 mm²</td>
<td>12</td>
</tr>
<tr>
<td>0.20/0.22 mm²</td>
<td>10</td>
</tr>
<tr>
<td>0.13/0.17 mm²</td>
<td>7.5</td>
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</table>

Temperature: Depending on Wire Size 85°C+

Multi Power Quadlok 2.8
## Miniaturization Terminals

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
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<tbody>
<tr>
<td><strong>Miniaturization</strong></td>
<td>1.8 mm pin-to-pin pitch</td>
</tr>
<tr>
<td></td>
<td>0.5 x 0.4 mm blade size</td>
</tr>
<tr>
<td><strong>Flexibility</strong></td>
<td>0.13 to 0.35 mm² compatible wire sizes</td>
</tr>
<tr>
<td></td>
<td>Flexible Flat Cables (FFC) / Flexible Printed Cables (FPC) compatibility</td>
</tr>
<tr>
<td><strong>Automotive-robust</strong></td>
<td>Current capacity of 3A</td>
</tr>
<tr>
<td><strong>Performance</strong></td>
<td>Max. temperature: 170°C (Ag-plated)</td>
</tr>
<tr>
<td></td>
<td>SG2 vibration grade (unsealed applications)</td>
</tr>
<tr>
<td></td>
<td>SG4 vibration grade (sealed applications)</td>
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<tr>
<td></td>
<td>Automotive-standards conform</td>
</tr>
<tr>
<td><strong>Wide Portfolio</strong></td>
<td>Locking lance design</td>
</tr>
<tr>
<td></td>
<td>Clean body terminal</td>
</tr>
<tr>
<td></td>
<td>Different surfaces available: Sn-, Ag- and Au-plated</td>
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</tbody>
</table>
Receptacle Contacts

Technical Features

**Contact Material:**
CuNiSi/CuSn

**Surface Contact Area:**
- Tin plated: 0.8-2.2 µm Sn
- Silver plated: 1.6-5 µm Ag
- Gold plated: min 0.8 µm Au

**Wire Size Range:**
0.13–0.35 mm²

**Current Carrying Capacity:**
- Up to 3 A at 90°C (CuSn, Sn)
- Up to 3A at 125°C (CuNiSi, Sn)
- Up to 3A at 160°C (Ag)
- Up to 3A at 140°C (Au)

**Temperature Range:**
- -40°C ... +105°C (tin plated)
- -40°C ... +170°C (silver plated)
- -40°C ... +130°C (CuNiSi, tin plated)
- -40°C ... +150°C (gold plated)

**Cycles:**
- 20 tin plated
- 50 silver plated
- 100 gold plated

**Application Specification:**
114-18858

**Product Specification:**
108-94099

<table>
<thead>
<tr>
<th>Wire Size Range (mm²)</th>
<th>Insulation Diameter (mm)</th>
<th>Material and Finish</th>
<th>Part Numbers</th>
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<tbody>
<tr>
<td>0.13 - 0.17</td>
<td>max. 1.1</td>
<td>CuNiSi, silver plated</td>
<td>2236905-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuSn, tin plated</td>
<td>2236905-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1-1703930-2</td>
<td></td>
</tr>
<tr>
<td>0.22 - 0.35</td>
<td>0.95 - 1.2</td>
<td>CuNiSi, silver plated</td>
<td>1-2236905-3</td>
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<td>1-2236905-1</td>
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<td></td>
<td></td>
<td>2-1703930-2</td>
<td></td>
</tr>
<tr>
<td>0.35</td>
<td>min. 1.2 max. 1.3</td>
<td>CuNiSi, silver plated</td>
<td>1-2236905-3</td>
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<td></td>
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<td>CuSn, tin plated</td>
<td>1-2236905-1</td>
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<td></td>
<td>2-1703930-2</td>
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<tr>
<td></td>
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<td>CuNiSi, gold plated</td>
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<tr>
<td></td>
<td></td>
<td>2-1703930-3</td>
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**Selecting an Applicator Online:**

**Selecting Applicator Replaceable Tooling Online:**

Mating Tab Contact
see page 10
**Tab Contacts**

**Technical Features**

- **Contact Material:** CuSn
- **Surface Contact Area:**
  - Tin plated: 1-3 μm Sn
  - Silver plated: 2-4 μm Ag
- **Wire Size Range:** 0.13–0.35 mm²
- **Current Carrying Capacity:** Up to 3 A at 90°C
- **Temperature Range:**
  - -40°C ... +105°C (tin plated)
  - -40°C ... +170°C (silver plated)
- **Cycles:**
  - 20 tin plated
  - 50 silver plated
- **Application Specification:** 114-94288
- **Product Specification:** 108-94099

<table>
<thead>
<tr>
<th>Wire Size Range (mm²)</th>
<th>Insulation Diameter (mm)</th>
<th>Material and Finish</th>
<th>Mating Tab Contact</th>
<th>Strip Form</th>
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</thead>
<tbody>
<tr>
<td>0.13 - 0.17</td>
<td>0.85 - 1.10</td>
<td>CuSn, tin plated</td>
<td>1-1703930-1</td>
<td>2236905-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>1-1703930-2</td>
<td>2236905-3</td>
</tr>
<tr>
<td>0.22 - 0.35</td>
<td>0.95 - 1.30</td>
<td>CuSn, tin plated</td>
<td>2-1703930-1</td>
<td>1-2236905-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>2-1703930-2</td>
<td>1-2236905-3</td>
</tr>
<tr>
<td>0.35</td>
<td>1.20 - 1.30</td>
<td>CuSn, tin plated</td>
<td>2-1703930-1</td>
<td>1-2236905-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>2-1703930-2</td>
<td>1-2236905-3</td>
</tr>
</tbody>
</table>

**Selecting an Applicator Online:**


**Selecting Applicator Replaceable Tooling Online:**

Technical Features

Contact Material: CuNiSi

Contact Finish:
- Tin Plated: 0.8 - 2.2 μm Sn
- Silver Plated: 1.6 - 5 μm Ag
- Gold Plated: min 0.8 μm Au

Wire Size Range: 0.13 - 0.35 mm²

Current Carrying Capacity:
- Up to 3A at 125°C (CuNiSi, Sn)
- Up to 3A at 160°C (Ag)
- Up to 3A at 140°C (Au)

Temperature Range:
- -40°C ... +130°C (CuNiSi, tin plated)
- -40°C ... +170°C (silver plated)
- -40°C ... +150°C (gold plated)

Matting Cycles:
- 20 tin plated
- 50 silver plated
- 100 gold plated

Product Specification: 108-94099
Application Specification: 114-18858

<table>
<thead>
<tr>
<th>Wire Size Range (mm²)</th>
<th>Insulation Diameter (mm)</th>
<th>Material and Finish</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.22-0.35</td>
<td>0.95-1.2</td>
<td>CuNiSi, tin plated</td>
<td>4-1703930-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>4-1703930-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, gold plated</td>
<td>4-1703930-3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Wire Size Range (mm²)</th>
<th>Insulation Diameter (mm)</th>
<th>Material and Finish</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.35</td>
<td>min 1.2 max. 1.3</td>
<td>CuNiSi, tin plated</td>
<td>4-1703930-4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>4-1703930-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, gold plated</td>
<td>4-1703930-3</td>
</tr>
</tbody>
</table>


NanoMQS FFC/FPC Terminal

Technical Features

- **Contact Material:** CuSn
- **Contact Finish:** Tin plated: 0.8 - 2.2 µm Sn
- **Wire Size Range:** Flexible Foils i.e. FFC or FPC For details, please see Application Specification
- **Current Carrying Capacity:** Up to 1A at 100°C
- **Temperature Range:** -40°C ... +105°C
- **Mating Cycles:** 20 tin plated
- **Product Specification:** 108-94489
- **Application Specification:** 114-94383

### Wire Size Range (mm²) | Material and Finish | Part Number
--- | --- | ---
FFC or FPC according to Application Specification | CuSn, tin plated | 1-2291853-1

Selecting an Applicator Online:

Selecting Applicator Replaceable Tooling Online:
Technical Features

Contact Material:
CuNiSi/CuSn

Contact Finish:
Tin Plated: 0.8 - 2.2 µm Sn
Silver Plated: 1.6-5 µm Ag
Gold Plated: min 0.8 µm Au

Wire Size Range:
0.13-0.35 mm²

Current Carrying Capacity:
Up to 3A at 90°C (CuSn, Sn)
Up to 3A at 125°C (CuNiSi, Sn)
Up to 3A at 160°C (Ag)
Up to 3A at 140°C (Au)

Temperature Range:
-40°C ... +105°C (CuSn, tin plated)
-40°C ... +130°C (CuNiSi, tin plated)
-40°C ... +170°C (silver plated)
-40°C ... +150°C (gold plated)

Mating Cycles:
20 tin plated
50 silver plated
100 gold plated

Product Specification:
108-94342
Application Specification:
114-94191

<table>
<thead>
<tr>
<th>Wire Size Range (mm²)</th>
<th>Insulation Diameter (mm)</th>
<th>Material and Finish</th>
<th>Part Number</th>
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</thead>
<tbody>
<tr>
<td>0.13-0.17</td>
<td>max 1.1</td>
<td>CuSn, tin plated</td>
<td>0-2177908-1</td>
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<tr>
<td></td>
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<td>CuNiSi, tin plated</td>
<td>1-2177908-1</td>
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<td></td>
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<td>CuNiSi, silver plated</td>
<td>0-2177908-3</td>
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<tr>
<td></td>
<td></td>
<td>CuNiSi, gold plated</td>
<td>1-2177908-2</td>
</tr>
<tr>
<td>0.22-0.35</td>
<td>0.95-1.2</td>
<td>CuNiSi, tin plated</td>
<td>0-2177909-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, silver plated</td>
<td>0-2177909-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, gold plated</td>
<td>1-2177909-2</td>
</tr>
<tr>
<td>0.35</td>
<td>min 1.2</td>
<td>CuNiSi, tin plated</td>
<td>0-2177909-1</td>
</tr>
<tr>
<td></td>
<td>max 1.3</td>
<td>CuNiSi, silver plated</td>
<td>0-2177909-3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>CuNiSi, gold plated</td>
<td>1-2177909-2</td>
</tr>
</tbody>
</table>

Selecting an Applicator Online:

Selecting Applicator Replaceable Tooling Online:
**NanoMultispring Press-Fit Pin**

**Technical Features**

- **Press-Fit Zone:** NanoMultispring
- **Material Thickness:** 0.4 mm
- **Total Temperature Range:** -40°C ... +125°C
- **Insertion Force:** Max 100 N
- **Push-out Force:** Min 20 N

**Product Drawing:**
2282347

**Product Requirements:**
IEC 60352-5 / TE 108-90836

**Product Specification:**
TE 108-90836

<table>
<thead>
<tr>
<th>Dimension Area I, Contact Tab Area (mm)</th>
<th>Dimensions (mm)</th>
<th>Nominal PCB Hole Diameter (mm)</th>
<th>Material</th>
<th>Finish Area I, Contact Tab Area</th>
<th>Finish Area III, Press-Fit Area</th>
<th>Part Number</th>
<th>Mating Receptacle Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width x Thickness</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.5 x 0.4</td>
<td>13.70</td>
<td>8.90</td>
<td>12.25</td>
<td>0.6</td>
<td>CuSn6</td>
<td>Sn</td>
<td>Sn</td>
</tr>
<tr>
<td>0.5 x 0.4</td>
<td>12.80</td>
<td>8.00</td>
<td>11.35</td>
<td>0.6</td>
<td>CuSn6</td>
<td>Sn</td>
<td>Sn</td>
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<tr>
<td>0.5 x 0.4</td>
<td>11.65</td>
<td>6.85</td>
<td>8.30</td>
<td>0.6</td>
<td>CuSn6</td>
<td>Sn</td>
<td>Sn</td>
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</table>
## Miniaturization Top/Side Latch Unsealed

<table>
<thead>
<tr>
<th><strong>Flexibility</strong></th>
<th>0.13 to 0.35 mm² compatible wire sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Flexible Flat Cables (FFC) / Flexible Printed Cables (FPC) compatibility</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Automotive-robust Performance</strong></th>
<th>SG2 vibration grade (unsealed applications)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Automotive-standards conform</td>
</tr>
<tr>
<td></td>
<td>Standard automotive interface</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Wide Portfolio</strong></th>
<th>Available in top- and side latch versions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Available in 1- and 2-row versions</td>
</tr>
<tr>
<td></td>
<td>Available with and without CPA versions</td>
</tr>
<tr>
<td>Top-Latch:</td>
<td>8, 12, 20 and 32 positions</td>
</tr>
<tr>
<td>Side-Latch:</td>
<td>2 up to 20 positions</td>
</tr>
</tbody>
</table>
### Technical Features

**No. of Positions:**
8 Positions

**Housing Material:**
PBT Glas fibre reinforced

**Wire Size Range:**
0.13 – 0.35 mm²

**Product Specification:**
108-20315

**Application Specification:**
114-94033

**Extraction Tool**
1355968-1

---

### Receptacle Housings – 8 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2177586-1</td>
<td>N/A</td>
<td>0-2177372-3</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2177586-2</td>
<td>N/A</td>
<td>1-2177372-3</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2177586-3*</td>
<td>N/A</td>
<td>2-2177372-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>2177586-4*</td>
<td>N/A</td>
<td>3-2177372-3*</td>
</tr>
</tbody>
</table>

* on request

---

Mating Header Connector
Right Angle see page 80

Mating Header Connector
Vertical see page 84
NanoMQS Top Latch, Unsealed

Technical Features

- **No. of Positions:** 12 Positions
- **Housing Material:** PBT Glas fibre reinforced
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Product Specification:** 108-20315
- **Application Specification:** 114-94033
- **Extraction Tool:** 1355968-1

Receptacle Housings – 12 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Mating Tab Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2177587-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0-2177370-3</td>
<td>0-2177767-3</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2177587-2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1-2177370-3</td>
<td>1-2177767-3</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2177587-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2-2177370-3*</td>
<td>2-2177767-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>2177587-4*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>3-2177370-3*</td>
<td>3-2177767-3*</td>
</tr>
</tbody>
</table>

* on request

Mating Header Connector
- **Right Angle** see page 81
- **Vertical** see page 85
### Technical Features

#### No. of Positions:
20 Positions

#### Housing Material:
PBT Glas fibre reinforced

#### Material and Finish:
CuMgO1, Sn over NiMating

#### Product Specification:
108-20315

#### Application Specification:
114-94033

#### Extraction Tool
1355968-1

---

**Receptacle Housings – 20 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
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<td>Coding A</td>
<td>Black</td>
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<td>0-2177367-3</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2177588-2</td>
<td>N/A</td>
<td>1-2177367-3</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2177588-3*</td>
<td>N/A</td>
<td>2-2177367-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>2177588-4*</td>
<td>N/A</td>
<td>3-2177367-3*</td>
</tr>
</tbody>
</table>

* on request

---

Mating Header Connector
Right Angle see page 82

---

Mating Header Connector
Vertical see page 86
NanoMQS Top Latch, Unsealed

Technical Features

No. of Positions:
31 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-20315

Application Specification:
114-94033

Extraction Tool:
1353968-1

Receptacle Housings – 32 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Mating Tab Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2141576-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>0-2177419-3</td>
<td>0-2177748-3</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2141576-2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1-2177419-3</td>
<td>1-2177748-3</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2141576-3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2-2177419-3</td>
<td>2-2177748-3</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>2141576-4*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>3-2177419-3*</td>
<td>3-2177748-3*</td>
</tr>
</tbody>
</table>

* on request

Mating Header Connector
Right Angle  see page 83
Vertical  see page 87
**Technical Features**

- **No. of Positions:** 8 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** Flexible Foils i.e. FFC or FPC; for details, please see Application Specification for Terminal PN 1-2291853-1
- **Interface:** 114-20160-40
- **Product Specification:** 108-94541
- **Application Specification:** 114-94437

---

**Receptacle Housings - FFC/FPC - 2 Row Design - 8 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding Z</td>
<td>Water Blue</td>
<td>2303089-1</td>
<td>x-2177372-x</td>
<td>x-2177768-x</td>
</tr>
</tbody>
</table>

* on request

---

**Mating PCB Header**

- Right Angle: see page 80
- Vertical Angle: see page 84
NanoMQS Top Latch, FFC/FPC

**Receptacle Housings - FFC/FPC - 2 Row Design - 20 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Receptacle Housing</td>
</tr>
<tr>
<td>Coding A Black</td>
<td></td>
<td>2365086-1</td>
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</tbody>
</table>

* on request

Mating PCB Header
Right Angle see page 82

Mating PCB Header
Vertical Angle see page 86
2.2 NanoMQS Top Latch, FFC/FPC

Technical Features

No. of Positions:
32 Positions

Housing Material
PBT-GF10

Wire Size Range:
Flexible Foils i.e. FFC or FPC; for details, please see Application Specification for Terminal PN 1-2291853-1

Interface:
114-20160-150

Product Specification:
108-94541

Application Specification:
114-94437

Receptacle Housings - FFC/FPC - 2 Row Design - 32 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Receptacle Housing</td>
</tr>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2303088-2</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2303088-3</td>
</tr>
<tr>
<td>Coding Z</td>
<td>Water Blue</td>
<td>2303088-1</td>
</tr>
</tbody>
</table>

* on request

Mating PCB Header
Right Angle see page 83

Mating PCB Header
Vertical Angle see page 87
NanoMQS Side Latch, Unsealed

Technical Features

No. of Positions:
6 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool
1355968-1

Receptacle Housings – 2 Row Design – 6 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Mating Tab Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2208338-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2208636-1</td>
<td>Right Angle</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2208338-2</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>2208636-2*</td>
<td></td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2208338-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>2208636-3*</td>
<td></td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2208338-4*</td>
<td></td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>2208636-4*</td>
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<td></td>
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<td>TBD</td>
<td>x-1703930-x</td>
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</table>

* on request

Mating Header see page 88

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications. Page 27
Technical Features

No. of Positions: 6 Positions
Housing Material: PBT Glas fibre reinforced
Wire Size Range: 0.13 – 0.35 mm²
Product Specification: 108-94288
Application Specification: 114-94033
Extraction Tool 1355968-1

---

**Receptacle Housings – 2 Row Design – 10 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Mating Tab Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2208339-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2208339-2</td>
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No. of Positions: 6
Housing Material: PBT Glas fibre reinforced
Wire Size Range: 0.13 – 0.35 mm²
Product Specification: 108-94288
Application Specification: 114-94033
Extraction Tool 1355968-1
Technical Features

No. of Positions: 6 Positions

Housing Material: PBT Glas fibre reinforced

Wire Size Range: 0.13 – 0.35 mm²

Product Specification: 108-94288

Application Specification: 114-94033

Extraction Tool: 1355968-1

Receptacle Housings – 2 Row Design – 14 Positions

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### Technical Features

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### Receptacle Housings – 2 Row Design – 20 Positions

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Mating Header see page 27
### Technical Features

- **No. of Positions:** 2 Positions
- **Housing Material:** PBT Glas fibre reinforced
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Product Specification:** 108-94288
- **Application Specification:** 114-94033
- **Extraction Tool:** 1355968-1

### Receptacle Housings – 1 Row Design – 2 Positions

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Technical Features

No. of Positions:
3 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool
135968-1

## Receptacle Housings – 1 Row Design – 3 Positions

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**Technical Features**

No. of Positions: 4 Positions

Housing Material: PBT Glas fibre reinforced

Wire Size Range: 0.13 – 0.35 mm²

Product Specification: 108-94288

Application Specification: 114-94033

Extraction Tool: 1355968-1

---

**Receptacle Housings – 1 Row Design – 4 Positions**

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Mating PCB Header

**Right Angle** see page 92

**Vertical Angle** see page 98
### Technical Features

**No. of Positions:**
5 Positions

**Housing Material:**
PBT Glass fibre reinforced

**Wire Size Range:**
0.13 – 0.35 mm²

**Product Specification:**
108-94288

**Application Specification:**
114-94033

**Extraction Tool:**
1355968-1

---

#### Receptacle Housings – 1 Row Design – 5 Positions

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**Mating PCB Header**

- **Right Angle**
  - see page 93

- **Vertical Angle**
  - see page 99
NanoMQS Side Latch, Unsealed

**Technical Features**

- **No. of Positions:** 6 Positions
- **Housing Material:** PBT Glas fibre reinforced
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Product Specification:** 108-94288
- **Application Specification:** 114-94033
- **Extraction Tool:** 1355968-1

**Receptacle Housings – 1 Row Design – 6 Positions**

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**Mating PCB Header**

- **Right Angle:** see page 94
- **Vertical Angle:** see page 100
2.3 NanoMQS Side Latch, Unsealed

Technical Features

No. of Positions:
7 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool:
135968-1

Receptacle Housings – 1 Row Design – 7 Positions

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Mating PCB Header
Right Angle see page 95
Technical Features

No. of Positions:
8 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool:
1355968-1

---

**Receptacle Housings – 1 Row Design – 8 Positions**

**Part Numbers**

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Mating PCB Header
Right Angle see page 96
Vertical Angle see page 101
### Technical Features

**No. of Positions:**
9 Positions

**Housing Material:**
PBT Glas fibre reinforced

**Wire Size Range:**
0.13 – 0.35 mm²

**Product Specification:**
108-94288

**Application Specification:**
114-94033

**Extraction Tool:**
1355968-1

---

#### Receptacle Housings – 1 Row Design – 9 Positions

![Receptacle Housings – 1 Row Design – 9 Positions](image)

**Part Numbers**

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**No. of Positions:**
9 Positions

**Housing Material:**
PBT Glas fibre reinforced

**Wire Size Range:**
0.13 – 0.35 mm²

**Product Specification:**
108-94288

**Application Specification:**
114-94033

**Extraction Tool:**
1355968-1

---

#### Receptacle Housings – 1 Row Design – 9 Positions

![Receptacle Housings – 1 Row Design – 9 Positions](image)

**Part Numbers**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Mating Tab Housing</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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* on request
Technical Features

No. of Positions:
10 Positions

Housing Material:
PBT Glass fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool:
1355968-1

Receptacle Housings – 1 Row Design – 10 Positions

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<th>Cover and Lever</th>
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<th>Mating PCB Headers</th>
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Mating PCB Header
Right Angle    see page 97
Vertical Angle see page 102
Technical Features

No. of Positions:
11 Positions

Housing Material:
PBT Glas fibre reinforced

Wire Size Range:
0.13 – 0.35 mm²

Product Specification:
108-94288

Application Specification:
114-94033

Extraction Tool:
135968-1

---

### Receptacle Housings – 1 Row Design – 11 Positions

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<th>Part Numbers</th>
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All codings
Technical Features
No. of Positions: 4 Positions
Housing Material: PBT-GF10
Wire Size Range: 0.13 – 0.35 mm²
Interface: 114-94000-20
Product Specification: 108-94288
Application Specification: 114-94491

Receptacle Housings - 2 Row Design - 4 Positions

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* on request
Technical Features

No. of Positions: 6 Positions
Housing Material: PBT-GF10
Wire Size Range: 0.13 – 0.35 mm²
Interface: 114-94000-20
Product Specification: 108-94288
Application Specification: 114-94491

Receptacle Housings - 2 Row Design - 6 Positions

<table>
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<tr>
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<th>Part Numbers</th>
<th>Receptacle Housing</th>
<th>Mating PCB Headers</th>
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* on request
## Technical Features

**No. of Positions:**
8 Positions

**Housing Material:**
PBT-GF10

**Wire Size Range:**
0.13 – 0.35 mm²

**Interface:**
114-94000-20

**Product Specification:**
108-94288

**Application Specification:**
114-94491

## Receptacle Housings - 2 Row Design - 8 Positions

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* on request

Mating PCB Header see page 107
### Technical Features

**No. of Positions:**
10 Positions

**Housing Material:**
PBT-GF10

**Wire Size Range:**
0.13 - 0.35 mm²

**Interface:**
114-94000-20

**Product Specification:**
108-94288

**Application Specification:**
114-94491

---

#### Receptacle Housings - 2 Row Design - 10 Positions

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**Mating PCB Header**

**Vertical** see page 108
NanoMQS Side Latch, Unsealed

**Technical Features**

- **No. of Positions:**
  - 12 Positions

- **Housing Material:**
  - PBT-GF10

- **Wire Size Range:**
  - 0.13 – 0.35 mm²

- **Interface:**
  - 114-94000-20

- **Product Specification:**
  - 108-94288

- **Application Specification:**
  - 114-94491

### Receptacle Housings - 2 Row Design - 12 Positions

<table>
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**Mating PCB Header**

- **Right Angle**
  - see page 103

- **Vertical**
  - see page 109

---

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications.
NanoMQS Side Latch, Unsealed

Technical Features

No. of Positions:
14 Positions

Housing Material:
PBT-GF10

Wire Size Range:
0.13 – 0.35 mm²

Interface:
114-94000-20

Product Specification:
108-94288

Application Specification:
114-94491

Receptacle Housings - 2 Row Design - 14 Positions

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Mating PCB Header
Right Angle see page 104
Technical Features

No. of Positions: 16 Positions
Housing Material: PBT-GF10
Wire Size Range: 0.13 – 0.35 mm²
Interface: 114-94000-20
Product Specification: 108-94288
Application Specification: 114-94491

Receptacle Housings - 2 Row Design - 16 Positions

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Mating PCB Header Right Angle see page 105
Mating PCB Header Vertical see page 110
**Technical Features**

- **No. of Positions:** 18 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Interface:** 114-94000-20
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

---

**Receptacle Housings - 2 Row Design - 18 Positions**

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<tr>
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<th>Part Numbers</th>
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</table>

* on request

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* x-1703930-1
Technical Features

No. of Positions: 20 Positions

Housing Material: PBT-GF10

Wire Size Range: 0.13 – 0.35 mm²

Interface: 114-94000-20

Product Specification: 108-94288

Application Specification: 114-94491

Receptacle Housings - 2 Row Design - 20 Positions

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Mating PCB Header
Right Angle see page 106

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications. Page 49
**Technical Features**

**No. of Positions:**
2 Positions

**Housing Material**
PBT-GF10

**Wire Size Range:**
0.13-0.35 mm²

**Interface:**
208-18060

**Product Specification:**
108-94288

**Application Specification:**
114-94491

---

### Receptacle Housings - 1 Row Design - 2 Pos with CPA

#### Part Numbers

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Mating PCB Header

- **Right Angle** see page 92
- **Vertical Angle** see page 98
Receptacle Housings - 1 Row Design - 3 Pos with CPA

Technical Features

No. of Positions:
3 Positions

Housing Material
PBT-GF10

Wire Size Range:
0.13-0.35 mm²

Interface:
208-18060

Product Specification:
108-94288

Application Specification:
114-94491

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<th>Keying Options</th>
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Mating PCB Header
Right Angle    see page 93
Vertical Angle see page 99

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications. Page 51
**Technical Features**

**No. of Positions:**
4 Positions

**Housing Material**
PBT-GF10

**Wire Size Range:**
0.13-0.35 mm²

**Interface:**
208-18060

**Product Specification:**
108-94288

**Application Specification:**
114-94491

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## Receptacle Housings - 1 Row Design - 4 Pos with CPA

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<td>Yes</td>
<td>2311714-1</td>
<td>x-1703930-x</td>
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<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2333104-2</td>
<td></td>
<td>2311714-2</td>
<td></td>
</tr>
</tbody>
</table>

**Mating PCB Header**
- **Right Angle:** see page 94
- **Vertical Angle:** see page 100
Technical Features

No. of Positions: 5 Positions
Housing Material: PBT-GF10
Wire Size Range: 0.13-0.35 mm²
Interface: 208-18060
Product Specification: 108-94288
Application Specification: 114-94491

Receptacle Housings - 1 Row Design - 5 Pos with CPA

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2333105-1</td>
<td>Yes</td>
<td>2315409-1</td>
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<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2333105-2</td>
<td></td>
<td>2315409-2</td>
</tr>
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* on request

Mating PCB Header
Right Angle see page 95
**Technical Features**

**No. of Positions:**
6 Positions

**Housing Material**
PBT-GF10

**Wire Size Range:**
0.13-0.35 mm²

**Interface:**
208-18060

**Product Specification:**
108-94288

**Application Specification:**
114-94491

---

**Receptacle Housings - 1 Row Design - 6 Pos with CPA**

**Part Numbers**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2309873-1</td>
<td></td>
<td>2315411-1</td>
<td>x-1703930-x</td>
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<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2309873-2</td>
<td></td>
<td>2315411-2</td>
<td></td>
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<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2309873-3</td>
<td>Yes</td>
<td>2315411-3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2311396-1</td>
<td></td>
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<tr>
<td></td>
<td></td>
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<td>2311396-2</td>
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<td></td>
<td></td>
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<td>2311396-3</td>
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Mating PCB Header
Right Angle see page 96

Mating PCB Header
Vertical Angle see page 101
**Technical Features**

- **No. of Positions:** 8 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13-0.35 mm²
- **Interface:** 208-18060
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

---

**Receptacle Housings - 1 Row Design - 8 Pos with CPA**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2333108-1</td>
<td>Yes</td>
<td>2315415-1</td>
<td>2314515-1</td>
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<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2333108-2</td>
<td></td>
<td>2315415-2</td>
<td>2314515-2</td>
</tr>
</tbody>
</table>

Mating PCB Header
Right Angle see page 97
Vertical Angle see page 102
NanoMQS Side Latch, Unsealed, with CPA

Technical Features

No. of Positions:
4 Positions

Housing Material
PBT-GF10

Wire Size Range:
0.13-0.35 mm²

Interface:
114-94000-20

Product Specification:
108-94288

Application Specification:
114-94491

Receptacle Housings - 2 Row Design - 4 Pos with CPA

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2345104-1</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2345104-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2345104-3*</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2345104-4*</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Part Numbers

- Mating PCB Headers:
  - Right Angle: 2317501-1*, 2317521-1*
  - Vertical: 2317501-2*, 2317521-2*

- Contacts: 2317501-3*, 2317521-3*, 2317501-4*, 2317521-4*

- * on request
**Technical Features**

- **No. of Positions:** 6 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13-0.35 mm²
- **Interface:** 114-94000-20
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

**Receptacle Housings - 2 Row Design - 6 Pos with CPA**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312106-1</td>
<td></td>
<td>2317503-1*</td>
<td>2317523-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312106-2</td>
<td></td>
<td>2317503-2*</td>
<td>2317523-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312106-3*</td>
<td>Yes</td>
<td>2317503-3*</td>
<td>2317523-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312106-4*</td>
<td></td>
<td>2317503-4*</td>
<td>2317523-4*</td>
</tr>
</tbody>
</table>

* on request

**Mating PCB Header**
- **Vertical Angle** see page 107
**Technical Features**

No. of Positions:
8 Positions

Housing Material
PBT-GF10

Wire Size Range:
0.13-0.35 mm²

Interface:
114-940000-20

Product Specification:
108-94288

Application Specification:
114-94491

**Receptacle Housings - 2 Row Design - 8 Pos with CPA**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Part Numbers</th>
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<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312108-1</td>
<td></td>
<td>2317505-1*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Yes</td>
<td>2317525-1*</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312108-2</td>
<td></td>
<td>2317505-2*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2317525-2*</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312108-3*</td>
<td></td>
<td>2317505-3*</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2317525-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312108-4*</td>
<td></td>
<td>2317505-4*</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2317525-4*</td>
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* on request

**Mating PCB Headers**

<table>
<thead>
<tr>
<th>Right Angle</th>
<th>Vertical</th>
</tr>
</thead>
<tbody>
<tr>
<td>2317505-1*</td>
<td>2317525-1*</td>
</tr>
<tr>
<td>2317505-2*</td>
<td>2317525-2*</td>
</tr>
<tr>
<td>2317505-3*</td>
<td>2317525-3*</td>
</tr>
<tr>
<td>2317505-4*</td>
<td>2317525-4*</td>
</tr>
</tbody>
</table>

*-1703930-x

**Contacts**

<table>
<thead>
<tr>
<th>Mating PCB Headers</th>
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<th></th>
</tr>
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<tbody>
<tr>
<td>Right Angle</td>
<td>Vertical</td>
<td>Contacts</td>
</tr>
<tr>
<td>2317505-1*</td>
<td>2317525-1*</td>
<td></td>
</tr>
<tr>
<td>2317505-2*</td>
<td>2317525-2*</td>
<td></td>
</tr>
<tr>
<td>2317505-3*</td>
<td>2317525-3*</td>
<td></td>
</tr>
<tr>
<td>2317505-4*</td>
<td>2317525-4*</td>
<td></td>
</tr>
</tbody>
</table>

**Mating PCB Header**

Vertical Angle

See page 108
NanoMQS Side Latch, Unsealed, with CPA

Technical Features

- **No. of Positions:** 10 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13-0.35 mm²
- **Interface:** 114-94000-20
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

Receptacle Housings - 2 Row Design - 10 Pos with CPA

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312110-1</td>
<td>Yes</td>
<td>2317507-1</td>
<td>2317527-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312110-2</td>
<td></td>
<td>2317507-2</td>
<td>2317527-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312110-3*</td>
<td></td>
<td>2317507-3*</td>
<td>2317527-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312110-4*</td>
<td></td>
<td>2317507-4*</td>
<td>2317527-4*</td>
</tr>
</tbody>
</table>

* on request

Mating PCB Header

- **Right Angle** see page 103
- **Vertical Angle** see page 109
**Technical Features**

- **No. of Positions:** 12 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13-0.35 mm²
- **Interface:** 114-94000-20
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

---

**Receptacle Housings - 2 Row Design - 12 Pos with CPA**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312112-1</td>
<td>Yes</td>
<td>2317509-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312112-2</td>
<td></td>
<td>2317509-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312112-3*</td>
<td></td>
<td>2317509-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312112-4*</td>
<td></td>
<td>2317509-4*</td>
</tr>
</tbody>
</table>

* on request

- **Mating PCB Headers**
  - **Right Angle**
    - 2317509-1
    - 2317509-2
    - 2317509-3*
    - 2317509-4*
  - **Vertical**
    - 2317529-1*
    - 2317529-2*
    - 2317529-3*
    - 2317529-4*

  - **x-1703930-x**

---

Mating PCB Header
Right Angle see page 104
NanoMQS Side Latch, Unsealed, with CPA

NanoMQS / MCON 0.50 Portfolio

Technical Features

No. of Positions:
14 Positions

Housing Material
PBT-GF10

Wire Size Range:
0.13-0.35 mm²

Interface:
114-94000-20

Product Specification:
108-94288

Application Specification:
114-94491

Receptacle Housings - 2 Row Design - 14 Pos with CPA

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312114-1</td>
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<td>2317511-1</td>
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<tr>
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<td>Natural</td>
<td>2312114-2</td>
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<td>2317511-2</td>
<td>2317531-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312114-3*</td>
<td>Yes</td>
<td>2317511-3*</td>
<td>2317531-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312114-4*</td>
<td></td>
<td>2317511-4*</td>
<td>2317531-4*</td>
</tr>
</tbody>
</table>

* on request

Mating PCB Headers

Right Angle see page 105

Vertical Angle see page 110

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications.
### Technical Features

**No. of Positions:**
16 Positions

**Housing Material**
PBT-GF10

**Wire Size Range:**
0.13-0.35 mm²

**Interface:**
114-94000-20

**Product Specification:**
108-94288

**Application Specification:**
114-94491

---

#### Receptacle Housings - 2 Row Design - 16 Pos with CPA

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312116-1</td>
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<td>Yes</td>
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</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312116-2</td>
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</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312116-3*</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312116-4*</td>
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</tr>
</tbody>
</table>

| * on request |

* Part Numbers: 2317513-1, 2317513-2, 2317513-3, 2317513-4*
**Technical Features**

- **No. of Positions:** 18 Positions
- **Housing Material:** PBT-GF10
- **Wire Size Range:** 0.13-0.35 mm²
- **Interface:** 114-94000-20
- **Product Specification:** 108-94288
- **Application Specification:** 114-94491

---

**Receptacle Housings - 2 Row Design - 18 Pos with CPA**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Receptacle Housing</td>
<td>CPA</td>
<td>Mating PCB Headers</td>
</tr>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312118-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2312118-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312118-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312118-4*</td>
</tr>
</tbody>
</table>

* on request

---

**Mating PCB Header**

- **Right Angle:** see page 106
NanoMQS Side Latch, Unsealed, with CPA

Receptacle Housings - 2 Row Design - 20 Pos with CPA

Technical Features
No. of Positions:
20 Positions

Housing Material
PBT-GF10

Wire Size Range:
0.13-0.35 mm²

Interface:
T14-94000-20

Product Specification:
108-94288

Application Specification:
T14-94491

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>CPA</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2312120-1</td>
<td>Yes</td>
<td>2317517-1*</td>
<td>2317537-1</td>
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<tr>
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<td>2312120-2</td>
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<td>2317517-2*</td>
<td>2317537-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2312120-3*</td>
<td></td>
<td>2317517-3*</td>
<td>2317535-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2312120-4*</td>
<td></td>
<td>2317517-4*</td>
<td>2317535-4*</td>
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</tbody>
</table>

* on request

Part Numbers

Mating PCB Header
Vertical Angle see page 111
## Miniaturization Sealed Housings

<table>
<thead>
<tr>
<th>Miniaturization</th>
<th>1.8 mm pin-to-pin pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexibility</td>
<td>0.13 to 0.35 mm² compatible wire sizes</td>
</tr>
<tr>
<td>Automotive-robust Performance</td>
<td>Current capacity of 3A</td>
</tr>
<tr>
<td></td>
<td>Max. temperature: 170°C (Ag-plated)</td>
</tr>
<tr>
<td></td>
<td>SG4 vibration grade (sealed applications)</td>
</tr>
<tr>
<td></td>
<td>Automotive-standards conform</td>
</tr>
<tr>
<td></td>
<td>Standard automotive interface</td>
</tr>
<tr>
<td>Wide Portfolio</td>
<td>Available for NanoMQS (locking lance) and MCON 0.50 (clean body)</td>
</tr>
<tr>
<td></td>
<td>Available in 1- and 2-row versions</td>
</tr>
<tr>
<td></td>
<td>NanoMQS: 2 up to 8 positions</td>
</tr>
<tr>
<td></td>
<td>MCON 0.50: 3 up to 12 positions</td>
</tr>
</tbody>
</table>
3.1 NanoMQS SEALED HOUSINGS

Technical Features

No. of Positions: 2 Positions
Housing Material: PBT Glas fibre reinforced
Wire Size Range: 0.22 – 0.35mm²
Product Specification: 108-94320
Application Specification: 114-94174
Extraction Tool: 1355968-1

Receptacle Housings – 2 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2141467-1</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>114-94000-14 *)</td>
<td>←</td>
<td>←</td>
</tr>
<tr>
<td>Coding B</td>
<td>Gray</td>
<td>2141467-2</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>114-94000-14 *)</td>
<td>←</td>
<td>←</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2141467-3</td>
<td>N/A</td>
<td>N/A</td>
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<td>N/A</td>
<td>114-94000-14 *)</td>
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*) Interface Drawing Number
**Technical Features**

- **No. of Positions:**
  - 4 Positions

- **Housing Material:**
  - PBT Glas fibre reinforced

- **Wire Size Range:**
  - 0.22 – 0.35mm²

- **Product Specification:**
  - 108-94320

- **Application Specification:**
  - 114-94174

- **Extraction Tool:**
  - 1355968-1

---

**Receptacle Housings – 4 Positions**

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<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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*) Interface Drawing Number
### Technical Features

**No. of Positions:**
2–6 Positions

**Housing Material:**
PBT Glas fibre reinforced

**Wire Size Range:**
0.22 – 0.35 mm²

**Product Specification:**
108-94288-4

**Application Specification:**
114-94033

**Extraction Tool:**
1355968-1

### Receptacle Housings – 2-6 Positions

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*) Interface Drawing Number
**Receptacle Housings – 6 Positions**

- **No. of Positions:** 6 Positions
- **Housing Material:** PBT Glas fibre reinforced
- **Wire Size Range:** 0.22 – 0.35 mm²
- **Product Specification:** 108-94288-4
- **Application Specification:** 114-94033
- **Extraction Tool:** 1355968-1

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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<td>N/A</td>
<td>114-94000-18 *)</td>
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*) Interface Drawing Number
### Technical Features

**No. of Positions:**
8 Positions

**Housing Material:**
PBT-GF10

**Wire Size Range:**
0.13 – 0.35 mm²

**Interface:**
208-18604-12

**Product Specification:**
108-94288-4

**Application Specification:**
114-94033

## Receptacle Housings - 8 Positions

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<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Cover</th>
<th>Locking Device</th>
<th>Cover and Lever</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
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<td>x-1703930-x</td>
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</table>
Technical Features

No. of Positions: 3 Positions

Housing Material: PA66-GF30

Wire Size Range: 0.13 – 0.35 mm²

Interface: 208-18008

Temperature Range: -40°C … +150°C

Extraction Tool:
Retainer: 2-1579028-6
Terminal: 8-1579007-9 and 2-1579028-8

Product Specification: 108-94610

Application Specification: 114-94496

Receptacle Housings - 1 Row Design - 3 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Part Numbers</th>
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<td>Natural</td>
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<td>Coding C</td>
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<td>2316210-3*</td>
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<tr>
<td>Coding D</td>
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<td>2316210-4*</td>
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<td>Coding E</td>
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<td>Coding F</td>
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</table>

* on request

Part Numbers

2236139-1  208-18008  x-2177908-x  x-2177909-x
### MCON 0.50 SEALED HOUSINGS

#### Technical Features

- **No. of Positions:** 4 Positions
- **Housing Material:** PA66-GF30
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Interface:** 208-18008
- **Temperature Range:** -40°C ... +150°C
- **Extraction Tool:**
  - Retainer: 2-1579028-6
  - Terminal: 8-1579007-9 and 2-1579028-8
- **Product Specification:** 108-94610
- **Application Specification:** 114-94496

### Receptacle Housings - 1 Row Design - 4 Positions

#### Part Numbers

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Fitting Blind Plugs</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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* TE AUTOMOTIVE / NanoMQS/MCON 0.50 Portfolio | Catalog 1654334-1
MCON 0.50 Sealed Housings

Technical Features

- No. of Positions: 6 positions
- Housing Material: PA66-GF30
- Wire Size Range: 0.13 – 0.35 mm²
- Interface: 208-18008
- Temperature Range: -40°C … +150°C
- Extraction Tool: Retainer: 2-1579028-6, Terminal: 8-1579007-9 and 2-1579028-8
- Product Specification: 108-94610
- Application Specification: 114-94496

Receptacle Housings - 1 Row Design - 6 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>Receptacle Housing</th>
<th>Fitting Blind Plugs</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
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* on request
**Technical Features**

No. of Positions: 4 positions  
Housing Material: PA66-GF30  
Wire Size Range: 0.13 – 0.35 mm²  
Interface: 208-18009  
Temperature Range: -40°C ... +150°C  
Extraction Tool: Retainer: 5-1579028-1  
Terminal: 8-1579007-9 and 2-1579028-8  
Product Specification: 108-94610  
Application Specification: 114-94496

### Receptacle Housings - 2 Row Design - 4 Positions

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<td>Coding F</td>
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* on request
## Technical Features

**No. of Positions:**
6 positions

**Housing Material:**
PA66-GF30

**Wire Size Range:**
0.13 – 0.35 mm²

**Interface:**
208-18009

**Temperature Range:**
-40°C ... +150°C

**Extraction Tool:**
Retainer: 5-1579028-1
Terminal: 8-1579007-9 and 2-1579028-8

**Product Specification:**
108-94610

**Application Specification:**
114-94496

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### Receptacle Housings - 2 Row Design - 6 Positions

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<td>Coding C</td>
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<td>Coding D</td>
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<td>Coding F</td>
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Technical Features

**No. of Positions:**
8 positions

**Housing Material:**
PA66-GF30

**Wire Size Range:**
0.13 – 0.35 mm²

**Interface:**
208-18009

**Temperature Range:**
-40°C ... +150°C

**Extraction Tool:**
Retainer: 5-1579028-1
Terminal: 8-1579007-9 and 2-1579028-8

**Product Specification:**
108-94610

**Application Specification:**
114-94496

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### Receptacle Housings - 2 Row Design - 8 Positions

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* on request
**Technical Features**

- **No. of Positions:** 10 positions
- **Housing Material:** PA66-GF30
- **Wire Size Range:** 0.13 – 0.35 mm²
- **Interface:** 208-18009
- **Temperature Range:** -40°C … +150°C
- **Extraction Tool:** Retainer: 5-1579028-1
  Terminal: 8-1579007-9 and 2-1579028-8
- **Product Specification:** 108-94610
- **Application Specification:** 114-94496

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### Receptacle Housings - 2 Row Design - 10 Positions

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<th>Interface</th>
<th>Mating PCB Headers</th>
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* on request
**Technical Features**

**No. of Positions:**
12 positions

**Housing Material:**
PA66-GF30

**Wire Size Range:**
0.13 – 0.35 mm²

**Interface:**
208-18009

**Temperature Range:**
-40°C … +150°C

**Extraction Tool:**
Retainer: 5-1579028-1
Terminal: 8-1579007-9 and 2-1579028-8

**Product Specification:**
108-94610

**Application Specification:**
114-94496

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**Receptacle Housings - 2 Row Design - 12 Positions**

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**Part Numbers**

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<tr>
<th>Receptacle Housing</th>
<th>Fitting Blind Plugs</th>
<th>Interface</th>
<th>Mating PCB Headers</th>
<th>Contacts</th>
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## Miniaturization Headers

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<td>Small pitch saves ca. 50% of PCB space in comparison to 0.63 connectors</td>
</tr>
<tr>
<td></td>
<td>Patented S-bended pins of SMT headers can save 30% of PCB space in comparison to other miniaturized headers in the market</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Flexibility</th>
<th>Available in Pin-In Paste (PiP) and Surface-Mount Technology (SMT) versions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Side-latch versions:</td>
</tr>
<tr>
<td></td>
<td>Common interface for both with- and without CPA connectors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Automotive-robust Performance</th>
<th>Reflow-process compatible</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>SG2 vibration grade (unsealed applications)</td>
</tr>
<tr>
<td></td>
<td>Automotive-standards conform</td>
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<tr>
<td></td>
<td>Standard automotive interface</td>
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<table>
<thead>
<tr>
<th>Wide Portfolio</th>
<th>Available in top- and side latch versions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Available in 1- and 2-row versions</td>
</tr>
<tr>
<td>Top-latch:</td>
<td>8, 12, 20 and 32 positions</td>
</tr>
<tr>
<td>Side-latch:</td>
<td>2 up to 20 positions</td>
</tr>
</tbody>
</table>
**Technical Features**

- **No. of Positions:** 8 Positions
- **Housing Material:** LCP, Glas fibre reinforced
- **Material and Finish:** CuMg01, Sn over Ni
- **Product Specification:** 108-94313
- **Application Specification:** 114-94160

### PCB Headers – Right Angle – 8 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>0-2177372-3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177586-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>1-2177372-3</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177586-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177372-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177586-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>3-2177372-3*</td>
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<td>N/A</td>
<td>N/A</td>
<td>2177586-4*</td>
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</tbody>
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* on request

Mating Receptacle Housing  
see page 20

Mating FFC Receptacle Housing  
see page 24
NanoMQS Top Latch THT (Pin-in-Paste) Headers

Technical Features

No. of Positions: 12 Positions
Housing Material: LCP, Glas fibre reinforced
Material and Finish: CuMg01, Sn over Ni
Product Specification: 108-94313
Application Specification: 114-94160

PCB Headers – Right Angle – 12 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
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<tbody>
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<td>Coding A</td>
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<tr>
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<td>N/A</td>
<td>2177587-2</td>
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<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177370-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177587-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>3-2177370-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177587-4*</td>
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</table>

* on request

Mating Receptacle Housing
see page 21
Technical Features

No. of Positions:
20 Positions

Housing Material:
LCP, Glas fibre reinforced

Material and Finish:
CuMg01, Sn over Ni

Product Specification:
108-94313

Application Specification:
114-94160

### PCB Headers – Right Angle – 20 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header</th>
<th>Cover</th>
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<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
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</thead>
<tbody>
<tr>
<td>Coding A</td>
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<td></td>
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<td>N/A</td>
<td></td>
<td>2177588-2</td>
</tr>
<tr>
<td>Coding C</td>
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<td>N/A</td>
<td></td>
<td>2177588-3*</td>
</tr>
<tr>
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<td>Black</td>
<td>3-2177367-3*</td>
<td></td>
<td></td>
<td></td>
<td>2177588-4*</td>
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</tbody>
</table>

* on request

Mating Receptacle Housing
see page 22

Mating FFC Receptacle Housing
see page 25
**Technical Features**

No. of Positions: 32 Positions

Housing Material: LCP, Glas fibre reinforced

Material and Finish: CuMg01, Sn over Ni

Product Specification: 108-94313

Application Specification: 114-94160

---

**PCB Headers – Right Angle – 32 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Retainer Housings</th>
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<td>2141576-1</td>
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<tr>
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<td>Natural</td>
<td>1-2177419-3</td>
<td></td>
<td></td>
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<td>2141576-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177419-3</td>
<td></td>
<td></td>
<td></td>
<td>2141576-3</td>
</tr>
<tr>
<td>Coding D</td>
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<td>3-2177419-3*</td>
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<td></td>
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<td>2141576-4*</td>
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</tbody>
</table>

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Mating Receptacle Housing  
see page 23

Mating FFC Receptacle Housing  
see page 26
Technical Features

No. of Positions: 8 Positions
Housing Material: LCP, Glas fibre reinforced
Material and Finish: CuMg01, Sn over Ni
Product Specification: 108-94313
Application Specification: 114-94160

PCB Headers - Vertical - 8 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Vertical</th>
<th>Cover</th>
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<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
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<tbody>
<tr>
<td>Coding A</td>
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<td>0-2177768-3</td>
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<tr>
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<td>Natural</td>
<td>1-2177768-3</td>
<td>N/A</td>
<td>N/A</td>
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<td>2177586-2</td>
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<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177768-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2177586-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Black</td>
<td>3-2177768-3*</td>
<td>N/A</td>
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<td>2177586-4*</td>
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</tbody>
</table>

* on request

Mating Receptacle Housing
see page 20

Mating FFC Receptacle Housing
see page 24
Technical Features

No. of Positions:
12 Positions

Housing Material:
LCP, Glas fibre reinforced

Material and Finish:
CuMg01, Sn over Ni

Product Specification:
108-94313

Application Specification:
114-94160

PCB Headers – Vertical – 12 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Vertical</th>
<th>Cover</th>
<th>Lever</th>
<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
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<td>N/A</td>
<td>N/A</td>
<td>2177587-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177767-3*</td>
<td>N/A</td>
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<td>N/A</td>
<td>2177587-3*</td>
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<tr>
<td>Coding D</td>
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<td>N/A</td>
<td>2177587-4*</td>
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</tbody>
</table>

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Mating Receptacle Housing see page 21
**Technical Features**

**No. of Positions:**
20 Positions

**Housing Material:**
LCP, Glas fibre reinforced

**Material and Finish:**
CuMg01, Sn over Ni

**Product Specification:**
108-94313

**Application Specification:**
114-94160

---

**PCB Headers – Vertical – 20 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
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<th>Cover</th>
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<th>Retainer Housings</th>
<th>Mating Receptacle Housing</th>
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<tbody>
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<td>2177588-1</td>
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<tr>
<td>Coding B</td>
<td>Natural</td>
<td>1-2177766-3</td>
<td>N/A</td>
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<td>2177588-2</td>
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<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177766-3*</td>
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<td>2177588-3*</td>
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<tr>
<td>Coding D</td>
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<td>3-2177766-3*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

* on request

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Mating Receptacle Housing
see page 22

Mating FFC Receptacle Housing
see page 25
**Technical Features**

- **No. of Positions:** 32 Positions
- **Housing Material:** LCP-GF30 / LCP-GF35
- **Material and Finish:** CuMg01, Sn over NiMating
- **Product Specification:** 108-94313
- **Application Specification:** 114-94160

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**PCB Headers – Vertical – 32 Positions**

<table>
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<tr>
<th>Keying Options</th>
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<th>Part Numbers</th>
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<tbody>
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<td>2141576-1</td>
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<td>2141576-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Gray</td>
<td>2-2177748-3</td>
<td>2141576-3</td>
</tr>
<tr>
<td>Coding D</td>
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<td>3-2177748-3*</td>
<td>2141576-4*</td>
</tr>
</tbody>
</table>

* on request

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**Mating Receptacle Housing**

See page 23

**Mating FFC Receptacle Housing**

See page 26
Technical Features

No. of Positions:
6 Positions

Housing Material:
LCP, Glas fibre reinforced

Material and Finish:
CuMg01, Sn over Ni

Product Specification:
108-94359

Application Specification:
114-94160

PCB Headers – 2 Row Design – 6 Positions

<table>
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<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Part Numbers</th>
<th>Mating Receptacle Housings</th>
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<tbody>
<tr>
<td>Coding A</td>
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<td></td>
<td>2208636-1</td>
<td>2208338-1</td>
</tr>
<tr>
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<td>2208636-2*</td>
<td>2208338-2</td>
</tr>
<tr>
<td>Coding C</td>
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<td>2208636-3*</td>
<td>2208338-3*</td>
</tr>
<tr>
<td>Coding D</td>
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<td></td>
<td>2208636-4*</td>
<td>2208338-4*</td>
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</tbody>
</table>

* on request

Mating Receptacle Housing
see page 27
PCB Headers – 2 Row Design – 20 Positions

Technical Features

No. of Positions:
20 Positions

Housing Material:
LCP, Glass fiber reinforced

Material and Finish:
CuMg01, Sn over Ni

Product Specification:
108-94359

Application Specification:
114-94160

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Retainer Housing</th>
<th>Mating Receptacle Housings</th>
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<tbody>
<tr>
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<td>Coding B</td>
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<td>2208165-2</td>
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<td>2141404-3*</td>
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<td>Coding D</td>
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<tr>
<td>Coding Z</td>
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<td></td>
<td>2141404-2</td>
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</tbody>
</table>

* on request

Mating Receptacle Housing
see page 30
NanoMQS Side Latch THT (Pin-in-Paste) Headers

### Technical Features

- **No. of Positions:** 6 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** TI4-94000-20

### PCB Headers - Right Angle - 2 Row Design - 6 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
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<th>Mating Receptacle Housings</th>
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<tbody>
<tr>
<td>Coding E</td>
<td>Green</td>
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<td>2345104-5*</td>
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<td>2302501-5*</td>
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</table>

* on request
Technical Features

- **No. of Positions:** 10 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-20

PCB Headers - Right Angle - 2 Row Design - 10 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Mating Receptacle Housings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2300292-1</td>
<td>N/A</td>
<td>N/A</td>
<td>2312108-2 2302475-2</td>
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</table>

* on request
**Technical Features**

- **No. of Positions:** 4 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-17 208-18060

---

**PCB Headers - Right Angle - 1 Row Design - 4 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Mating Receptacle Housings</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>with CPA</td>
</tr>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2315405-1</td>
<td>N/A</td>
<td>2333102-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2315405-2</td>
<td>N/A</td>
<td>2333102-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2315405-3*</td>
<td>N/A</td>
<td>2333102-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2315405-4*</td>
<td>N/A</td>
<td>2333102-4*</td>
</tr>
</tbody>
</table>

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Mating Receptacle Housing with CPA  
see page 50

Mating Receptacle Housing  
no CPA  
see page 33
**Technical Features**

**No. of Positions:**
5 Positions

**Housing Material:**
PA4T-GF30

**Material and Finish:**
CuMg 0.1, Sn over Ni

**Interface:**
114-94000-17
208-18060

---

**PCB Headers - Right Angle - 1 Row Design - 5 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Mating Receptacle Housings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2315407-1</td>
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<td>N/A</td>
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</tr>
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<td>2315407-2</td>
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<td></td>
<td>2333103-1, 2282153-1</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2315407-3*</td>
<td></td>
<td></td>
<td>2333103-2, 2282153-2</td>
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<td>Violet</td>
<td>2315407-4*</td>
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<td>2333103-3, 2282153-3</td>
</tr>
</tbody>
</table>

* on request

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Mating Receptacle Housing with CPA
see page 51

Mating Receptacle Housing no CPA
see page 34
4.3 NanoMQS SMD Headers

**Technical Features**

- **No. of Positions:** 6 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-17 208-18060

**PCB Headers - Right Angle - 1 Row Design - 6 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
<th>Part Numbers</th>
<th>Mating Receptacle Housings</th>
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<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2311714-1</td>
<td>N/A</td>
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<tr>
<td>Coding B</td>
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<td>2311714-2</td>
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<td>2333104-2, 2282154-2</td>
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<tr>
<td>Coding C</td>
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<td>2311714-3*</td>
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<td>Coding D</td>
<td>Violet</td>
<td>2311714-4*</td>
<td>N/A</td>
<td>2333104-4*, 2282154-4*</td>
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</table>

* on request

**Mating Receptacle Housing**

- with CPA: see page 52
- no CPA: see page 35
**Technical Features**

No. of Positions: 7 Positions

Housing Material: PA4T-GF30

Material and Finish: CuMg 0.1, Sn over Ni

Interface: 114-94000-17 208-18060

---

### PCB Headers - Right Angle - 1 Row Design - 7 Positions

![PCB Headers - Right Angle](image)

#### Part Numbers

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Right Angle</th>
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<th>Lever</th>
<th>Mating Receptacle Housings</th>
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<tbody>
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<td>Coding C</td>
<td>Blue</td>
<td>2315409-3*</td>
<td></td>
<td></td>
<td>2333105-3* 2282155-3</td>
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<td>2315409-4*</td>
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<td>2333105-4* 2282155-4</td>
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</table>

* on request

---

**Mating Receptacle Housing**

- with CPA see page 53
- no CPA see page 36
### Technical Features

**No. of Positions:**
8 Positions

**Housing Material:**
PA4T-GF30

**Material and Finish:**
CuMg 0.1, Sn over Ni

**Interface:**
114-94000-17
208-18060

### PCB Headers - Right Angle - 1 Row Design - 8 Positions

<table>
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<td>Coding C</td>
<td>Blue</td>
<td>2315411-3*</td>
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<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2315411-4*</td>
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| Coding A       | Black         | 2309873-1 2282267-1 |
| Coding B       | Natural       | 2309873-2 2282267-2 |
| Coding C       | Blue          | 2309873-3 2282267-3 |
| Coding D       | Violet        | 2309873-4* 2282267-4 |

* on request

### Mating Receptacle Housing with CPA
see page 54

### Mating Receptacle Housing no CPA
see page 37
**Technical Features**

**No. of Positions:**
10 Positions

**Housing Material:**
PA4T-GF30

**Material and Finish:**
CuMg 0.1, Sn over Ni

**Interface:**
114-94000-17
208-18060

---

**PCB Headers - Right Angle - 1 Row Design - 10 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
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**Mating Receptacle Housing**

- **with CPA**
  - see page 55

- **no CPA**
  - see page 39
4.3 NanoMQS SMD Headers

Technical Features

No. of Positions:
4 Positions

Housing Material:
PA4T-GF30

Material and Finish:
CuMg 0.1, Sn over Ni

Interface:
114-940000-17
208-18060

PCB Headers - Vertical Angle - 1 Row Design - 4 Positions

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<td></td>
<td></td>
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<td></td>
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<tr>
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<td>Blue</td>
<td>2314503-3*</td>
<td></td>
<td></td>
<td>2333102-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2314503-4*</td>
<td></td>
<td></td>
<td>2333102-4*</td>
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Mating Receptacle Housing
with CPA
see page 50

Mating Receptacle Housing
no CPA
see page 33
### Technical Features

- **No. of Positions:** 5 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-17 208-18060

### PCB Headers - Vertical Angle - 1 Row Design - 5 Positions

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<td>2314505-3</td>
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<td>N/A</td>
<td>2333103-3</td>
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<td>Violet</td>
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<td>N/A</td>
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### Additional Information

- **Mating Receptacle Housing with CPA**
  - see page 51
- **Mating Receptacle Housing no CPA**
  - see page 34
**Technical Features**

- **No. of Positions:** 6 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-17 208-18060

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**Keying Options**

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<th>Keying Options</th>
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<td></td>
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Mating Receptacle Housing with CPA see page 52

Mating Receptacle Housing no CPA see page 35
**Technical Features**

No. of Positions:
8 Positions

Housing Material:
PA4T-GF30

Material and Finish:
CuMg 0.1, Sn over Ni

Interface:
114-94000-17
208-18060

---

### PCB Headers - Vertical Angle - 1 Row Design - 8 Positions

<table>
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Mating Receptacle Housing with CPA see page 54

Mating Receptacle Housing no CPA see page 37
**Technical Features**

- **No. of Positions:** 10 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-17 208-18060

### PCB Headers - Vertical Angle - 1 Row Design - 10 Positions

#### Keying Options

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<th>Keying Options</th>
<th>Housing Color</th>
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<td>N/A</td>
<td>2333108-3* 2282268-3</td>
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<tr>
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* on request

#### Mating Receptacle Housing

- **with CPA:** see page 55
- **no CPA:** see page 39
### Technical Features

- **No. of Positions:** 12 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-20

### PCB Headers - Right Angle - 2 Row Design - 12 Positions

![PCB Headers - Right Angle - 2 Row Design - 12 Positions](image)

#### Keying Options

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
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<td>2312212-2</td>
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<td>2312110-3*</td>
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</table>

* on request

#### Mating Receptacle Housing

- **with CPA:** see page 59
- **no CPA:** see page 45

Catalog 1654334-1 | All specifications subject to change. Consult TE Connectivity for latest specifications. Page 103

NanoMQS SMD Headers

NanoMQS / MCON 0.50 Portfolio
Technical Features

No. of Positions:
14 Positions

Housing Material:
PA4T-GF30

Material and Finish:
CuMg 0.1, Sn over Ni

Interface:
T14-94000-20

PCB Headers - Right Angle - 2 Row Design - 14 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
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* on request

Mating Receptacle Housing with CPA
see page 60

Mating Receptacle Housing
no CPA
see page 46
### Technical Features

- **No. of Positions:** 16 Positions
- **Housing Material:** PA4T-GF30
- **Material and Finish:** CuMg 0.1, Sn over Ni
- **Interface:** 114-94000-20

### PCB Headers - Right Angle - 2 Row Design - 16 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
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### Mating Receptacle Housing

- **with CPA:** see page 61
- **no CPA:** see page 47
Technical Features

**No. of Positions:**
20 Positions

**Housing Material:**
PA4T-GF30

**Material and Finish:**
CuMg 0.1, Sn over Ni

**Interface:**
T14-94000-20

---

**PCB Headers - Right Angle - 2 Row Design - 20 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
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</table>

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Mating Receptacle Housing with CPA
see page 63

Mating Receptacle Housing no CPA
see page 49
**Technical Features**

- **No. of Positions:** 8 Positions  
- **Housing Material:** PA4T-GF30  
- **Material and Finish:** CuMg 0.1, Sn over Ni  
- **Interface:** 114-94000-20

---

**PCB Headers - Vertical Angle - 2 Row Design - 8 Positions**

<table>
<thead>
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<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Vertical Angle</th>
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**Mating Receptacle Housing**
- with CPA: see page 57
- no CPA: see page 43
4.3 NanoMQS SMD Headers

Technical Features

No. of Positions: 10 Positions
Housing Material: PA4T-GF30
Material and Finish: CuMg 0.1, Sn over Ni
Interface: T14-94000-20

PCB Headers - Vertical Angle - 2 Row Design - 10 Positions

<table>
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Mating Receptacle Housing
with CPA see page 58

Mating Receptacle Housing
no CPA see page 44
**Technical Features**

No. of Positions: 12 Positions  
Housing Material: PA4T-GF30  
Material and Finish: CuMg 0.1, Sn over Ni  
Interface: 114-94000-20

---

**PCB Headers - Vertical Angle - 2 Row Design - 12 Positions**

### Part Numbers

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<th>Housing Color</th>
<th>PCB Header Vertical Angle</th>
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<td>Coding A</td>
<td>Black</td>
<td>2317527-1</td>
<td></td>
<td>N/A</td>
<td>2312110-1</td>
</tr>
<tr>
<td>Coding B</td>
<td>Natural</td>
<td>2317527-2</td>
<td></td>
<td>N/A</td>
<td>2312212-1</td>
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<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2317527-3*</td>
<td></td>
<td>N/A</td>
<td>2312110-2</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2317527-4*</td>
<td></td>
<td>N/A</td>
<td>2312212-2</td>
</tr>
</tbody>
</table>

* on request

Mating Receptacle Housing with CPA  
see page 59

Mating Receptacle Housing no CPA  
see page 45
**Technical Features**

**No. of Positions:**
16 Positions

**Housing Material:**
PA4T-GF30

**Material and Finish:**
CuMg 0.1, Sn over Ni

**Interface:**
T14-94000-20

---

**PCB Headers - Vertical Angle - 2 Row Design - 16 Positions**

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Vertical Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Mating Receptacle Housings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coding A</td>
<td>Black</td>
<td>2317531-1</td>
<td>N/A</td>
<td>N/A</td>
<td>2312114-1</td>
</tr>
<tr>
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<td>Natural</td>
<td>2317531-2</td>
<td></td>
<td></td>
<td>2312114-2</td>
</tr>
<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2317531-3*</td>
<td></td>
<td></td>
<td>2312114-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2317531-4*</td>
<td></td>
<td></td>
<td>2312114-4*</td>
</tr>
</tbody>
</table>

* on request

---

**Mating Receptacle Housing**

- **with CPA** see page 61
- **no CPA** see page 47
Technical Features

No. of Positions:
22 Positions

Housing Material:
PA4T-GF30

Material and Finish:
CuMg 0.1, Sn over Ni

Interface:
114-94000-20

### PCB Headers - Vertical Angle - 2 Row Design - 22 Positions

<table>
<thead>
<tr>
<th>Keying Options</th>
<th>Housing Color</th>
<th>PCB Header Vertical Angle</th>
<th>Cover</th>
<th>Lever</th>
<th>Mating Receptacle Housings</th>
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</thead>
<tbody>
<tr>
<td>Coding A</td>
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<td>2317537-1</td>
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<td>N/A</td>
<td>2312120-1</td>
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<tr>
<td>Coding B</td>
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<td>2317537-2</td>
<td></td>
<td></td>
<td>2312120-2</td>
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<tr>
<td>Coding C</td>
<td>Blue</td>
<td>2317537-3*</td>
<td></td>
<td></td>
<td>2312120-3*</td>
</tr>
<tr>
<td>Coding D</td>
<td>Violet</td>
<td>2317537-4*</td>
<td></td>
<td></td>
<td>2312120-4*</td>
</tr>
</tbody>
</table>

* on request

Mating Receptacle Housing with CPA: see page 64
TE’s Application Tooling portfolio provides customers a wide range of flexible, high quality, reliable solutions that meet all levels of NanoMQS production volume requirements and product specifications.

For decades customers have come to trust the TE brand both during and after the sale thanks to a global network of field service engineers and product managers. We can supply product, training and support for everything from simple hand tools to the most complex automated systems.

**Tooling for NanoMQS Applications**

Insertion and extraction tools are used for inserting discrete terminals into connector housings or removing them, without causing damage to either the terminals or housings. Many different design types exist for our vast terminal product range including NanoMQS connectors.

Termination of small wires via crimping requires appropriate tools to confirm that the wire is terminated with the same level of quality that is generally expected of a crimp connection – this applies to automatic termination and hand-operation processes alike.

Only precision application tools like our specific applicators and hand tool for NanoMQS connectors deliver the essential air-tight crimping connection without potentially damaging the fine wire.

**OCEAN 2.0 Applicators**

Wire small diameter wire harness applications like NanoMQS require a high degree of quality, reliability and repeatability. Our OCEAN 2.0 applicators are crafted from high grade tool steels and processed through advanced CNC equipment for tight tolerances to meet demands for high repeatability and faster throughput. Its robust design is not only easy-to-install, but also designed for fast adjustments to make them even more accurate.
YOU CAN RELY ON APPLICATION TOOLING FROM TE CONNECTIVITY

OCEAN 2.0 & GII Terminators: A Perfect Combo

Customers can take their NanoMQS wire processing to new levels by running an OCEAN 2.0 applicator in a GII bench top terminator. All GII models include precision adjustment for crimp height — an important feature, which, in combination with the optional Crimp Quality Monitor (CQM II), enables repeatable, tight crimp tolerances required for today’s demands for higher levels of quality.

Defective crimp-cut models provide an even higher level of quality for customers looking to control defects from continuing in the manufacturing process, once a crimp error is detected. With the help of our CQM II, defective crimp cut technology can immediately detect when a bad crimp occurs and cut off the crimped terminal to keep bad crimps from accidently passing to the next step in your wire harness manufacturing.

Trust on TE All Down the Line

Whether you’re looking for high quality potable tools or need a semi-automatic termination solution to handle your crimping challenges, TE has the sales, engineering and field service support to guide you through the selection, installation and service of your equipment.

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TE AUTOMOTIVE

We are one of the leading providers of advanced automobile connectivity solutions. The automotive industry uses our products in automotive technologies for body and chassis systems, convenience applications, driver information, infotainment solutions, miniaturization solutions, motor and powertrain applications, and safety and security systems. TE Connectivity is developing automotive solutions to help drive innovations for designs today and into tomorrow.

Miniaturized Terminals and Connectors

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