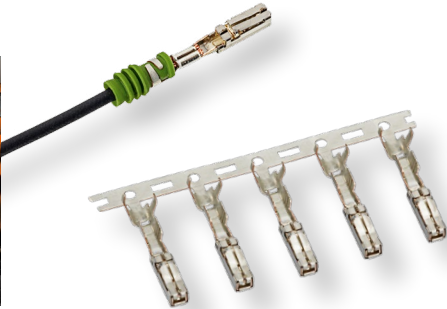




# MCON INTERCONNECTION SYSTEM

for the Automotive Industry

# 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 infotainment 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.



## CABLE ASSEMBLIES

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



## 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. Connection after connection, you can count on TE for smaller, greener, lighter and smarter solutions you can trust.



## SENSOR SOLUTIONS

Data is critical for making vehicles safer, greener, smarter and more connected. 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.



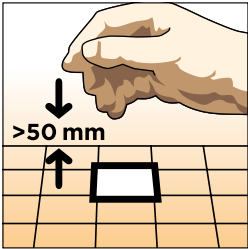
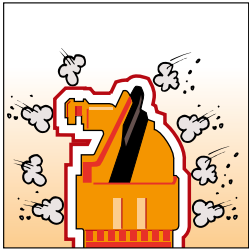
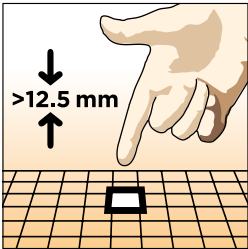
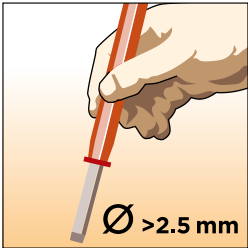
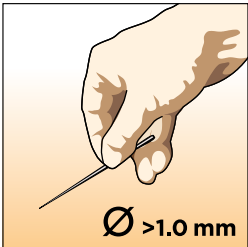
## INFOTAINMENT

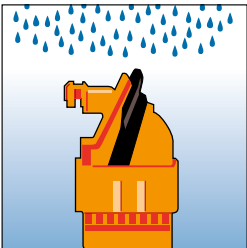
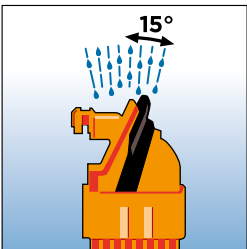
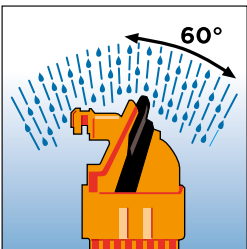
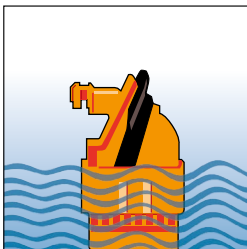
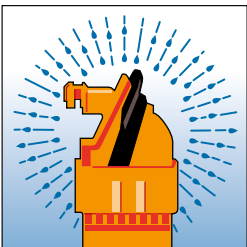
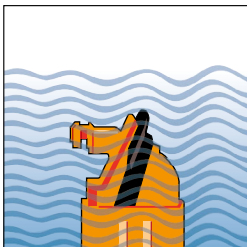
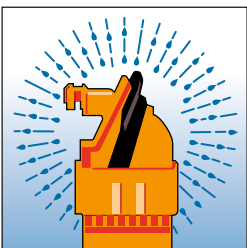
Our wide range of infotainment solutions are ideal for consumer port connections, high data rate applications, next-generation harness architecture, board-to-board connections and vehicle-to-vehicle communication.



## 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.

| 1st Digit | Against Foreign Objects (incl. Dust)                                                                                                                            | 1st Digit | Against Foreign Objects (incl. Dust)                                                                      |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------|
| 0         |  <p>Not protected.</p>                                                         | 5K        |  <p>Dust protected.</p> |
| 1         |  <p>Protected against solid objects greater than 50 mm (ex. back of hand).</p> | 6K        |  <p>Dust tight.</p>     |
| 2         |  <p>Protected against solid objects greater than 12.5 mm (ex. finger).</p>    |           |                                                                                                           |
| 3         |  <p>Protected against solid objects greater than 2.5 mm (ex. tool).</p>      |           |                                                                                                           |
| 4         |  <p>Protected against solid objects greater than 1.0 mm (ex. wire).</p>      |           |                                                                                                           |

| 2nd Digit | Against Water                                                                       |                                                            | 2nd Digit | Against Water                                                                        |                                                                                            |
|-----------|-------------------------------------------------------------------------------------|------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 0         |    | Not protected.                                             | 5         |    | Protected against jetting water.                                                           |
| 1         |    | Protected against vertically dripping water.               | 6         |    | Protected against powerfully jetting water.                                                |
| 2         |   | Protected against dripping water when tilted up to 15°.    | 6K        |   | Protected against powerfully jetting water with increased pressure (Automotive).           |
| 3         |  | Protected against spraying water (up to 60° inclination).  | 7         |  | Protected against the temporary effects of immersion up to 1 meter.                        |
| 4         |  | Protected against splashing water.                         | 8         |  | Protected against continuous submersion agreed with customer, but more severe than code 7. |
| 4K        |  | Protected against splashing water with increased pressure. | 9K        |  | Protected against high-pressure/steam-jet cleaning (Automotive).                           |

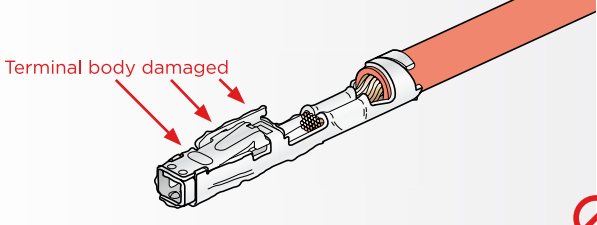
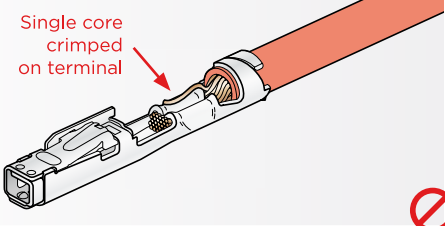
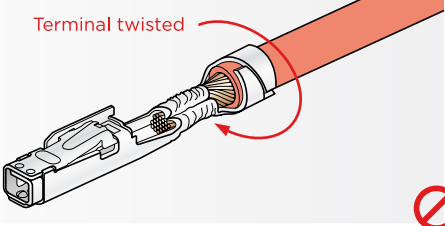
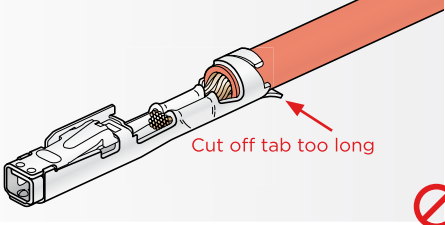
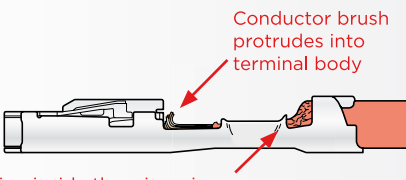
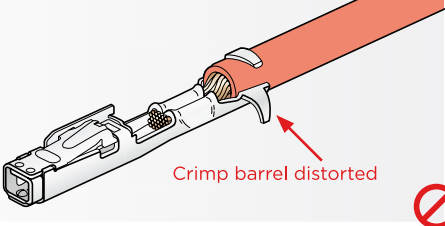
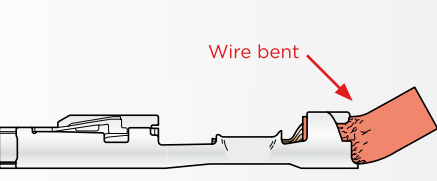
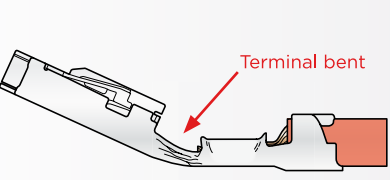
# Good Crimp Quality

|                                                                                                                                                                                                                                |                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--|
|                                                                                                                                                                                                                                | <p>F-CRIMP</p>         |  |
|                                                                                                                                                                                                                                | <p>OVERLAP CRIMP</p>   |  |
|                                                                                                                                                                                                                                | <p>WRAP OVER CRIMP</p> |  |
| <p>Correct selection</p> <p><b>of wire, terminal and applicator</b><br/>Crimp barrel is closed, legs support each other, sufficient gap between legs and bottom of crimp, all strands are equally distributed and deformed</p> |                        |  |

## Test

| <p><b>WIRE CRIMP</b></p> <p>Crimp heights and tolerances</p> <p>For crimp height tolerances for any given contact, please refer to the relevant application specification.</p> <p><b>Examples</b></p> <table border="1"> <thead> <tr> <th>Contact</th> <th>P/N</th> <th>Wire Range</th> <th>Tolerance</th> <th>Spec.</th> </tr> </thead> <tbody> <tr> <td>JJPT</td> <td>927775</td> <td>0.50 – 1.00 mm<sup>2</sup></td> <td>±0.05 mm</td> <td>114-18050</td> </tr> <tr> <td>JPT</td> <td>927773</td> <td>1.50 – 2.50 mm<sup>2</sup></td> <td>±0.05 mm</td> <td>114-18050</td> </tr> <tr> <td>MQS</td> <td>962885</td> <td>0.20 – 0.50 mm<sup>2</sup></td> <td>±0.03 mm</td> <td>114-18025</td> </tr> </tbody> </table> | Contact | P/N                         | Wire Range | Tolerance | Spec. | JJPT | 927775 | 0.50 – 1.00 mm <sup>2</sup> | ±0.05 mm | 114-18050 | JPT | 927773 | 1.50 – 2.50 mm <sup>2</sup> | ±0.05 mm | 114-18050 | MQS | 962885 | 0.20 – 0.50 mm <sup>2</sup> | ±0.03 mm | 114-18025 | <p><b>WIRE CRIMP</b></p> <p>Digital crimp height micrometer (0.001 mm increments) according to DIN ISO 9001<br/>Part number: 547203-1</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------|------------|-----------|-------|------|--------|-----------------------------|----------|-----------|-----|--------|-----------------------------|----------|-----------|-----|--------|-----------------------------|----------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | P/N     | Wire Range                  | Tolerance  | Spec.     |       |      |        |                             |          |           |     |        |                             |          |           |     |        |                             |          |           |                                                                                                                                           |
| JJPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 927775  | 0.50 – 1.00 mm <sup>2</sup> | ±0.05 mm   | 114-18050 |       |      |        |                             |          |           |     |        |                             |          |           |     |        |                             |          |           |                                                                                                                                           |
| JPT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 927773  | 1.50 – 2.50 mm <sup>2</sup> | ±0.05 mm   | 114-18050 |       |      |        |                             |          |           |     |        |                             |          |           |     |        |                             |          |           |                                                                                                                                           |
| MQS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 962885  | 0.20 – 0.50 mm <sup>2</sup> | ±0.03 mm   | 114-18025 |       |      |        |                             |          |           |     |        |                             |          |           |     |        |                             |          |           |                                                                                                                                           |
| <p><b>INSULATION CRIMP</b></p> <p>Wire crimp without conductor</p> <p>Insulation must be securely held after bend test (one bend cycle)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                             |            |           |       |      |        |                             |          |           |     |        |                             |          |           |     |        |                             |          |           |                                                                                                                                           |

# Incorrect Crimp Quality

|                                                                                                                          |                                           |                                                                                                                                                                                  |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Terminal body damaged</p>           | <p>F-CRIMP</p>                            |  <p>Crimp legs are not closed</p> <p>Insulation is pierced</p>                                |
|  <p>Single core crimped on terminal</p> | <p>INSULATION CRIMP<br/>OVERLAP CRIMP</p> |  <p>Crimp legs do not overlap</p> <p>Insulation is pierced</p>                                |
|  <p>Terminal twisted</p>               | <p>WRAP OVER CRIMP</p>                    |  <p>Insulation is not securely held</p> <p>Insulation is over crimped</p>                    |
|  <p>Cut off tab too long</p>          |                                           |  <p>Conductor brush protrudes into terminal body</p> <p>Insulation inside the wire crimp</p> |
|  <p>Crimp barrel distorted</p>        |                                           |  <p>Wire bent</p>                                                                            |
|                                                                                                                          |                                           |  <p>Terminal bent</p>                                                                        |

Correct

Incorrect

Test

At TE Connectivity, we support your RoHS requirements. We've assessed more than 1.5 million end items/components for RoHS compliance, and issued new part numbers where any change was required to eliminate the restricted materials. Part numbers in this catalog are identified as:

## RoHS Compliant

Part numbers in this catalog are RoHS Compliant, unless marked otherwise. These products comply with European Union Directive 2002/95/EC as amended 1 January 2006 that restricts the use of lead, mercury, cadmium, hexavalent chromium, PBB, and PBDE in certain electrical and electronic products sold into the EU as of 1 July 2006.

Note: For purposes of this Catalog, included within the definition of RoHS Compliant are products that are clearly "Out of Scope" of the RoHS Directive such as hand tools and other non-electrical accessories.

## Non-RoHS Compliant

These part numbers are identified with a "t" symbol. These products do not comply with the material restrictions of the European Union Directive 2002/95/EC.

## 5 of 6 Compliant

A "l" symbol identifies these part numbers. These products do not fully comply with the European Union Directive 2002/95/EC because they contain lead in solderable interfaces (they do not contain any of the other five restricted substances above allowable limits). However, these products may be suitable for use in RoHS applications where there is an application-based exception for lead in solders, such as the server, storage, or networking infrastructure exemption.

Note: Information regarding RoHS compliance is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information provided by our suppliers. This information is subject to change. For latest compliance status, refer to our website referenced below. So whatever your questions when it comes to RoHS, we've got the answers at <http://www.TE.com/customersupport/rohssupportcenter/>

## Getting the information you need

Our comprehensive on-line RoHS Customer Support Center provides a forum to answer your questions and support your RoHS needs. A RoHS FAQ (Frequently Asked Questions) is available with links to more detailed information. You can also submit RoHS questions and receive a response within 24 hours during a normal work week. The Support Center also provides:

- Cross-Reference from Non-compliant to Compliant Products
- Ability to browse RoHS Compliant Products in our on-line catalog:  
[www.TE.com/commerce/alt/RohsAltHome.do](http://www.TE.com/commerce/alt/RohsAltHome.do)
- Downloadable Technical Data Customer Information Presentation
- More detailed information regarding the definitions used above

## Conversion Tables

### AWG Conversion Table (Average Value)

| AWG Code | Diameter (Inch) | Diameter (mm) | F (mm <sup>2</sup> ) |
|----------|-----------------|---------------|----------------------|
| 000000   | 0.5800          | 14.733        | 170.0                |
| 00000    | 0.5165          | 13.13         | 135.0                |
| 0000     | 0.4600          | 11.684        | 103.8                |
| 000      | 0.4096          | 10.40         | 79.0                 |
| 00       | 0.3648          | 9.27          | 67.5                 |
| 0        | 0.3249          | 8.25          | 53.4                 |
| 1        | 0.2893          | 7.34          | 42.2                 |
| 2        | 0.2576          | 6.55          | 33.7                 |
| 3        | 0.2294          | 5.82          | 26.6                 |
| 4        | 0.2043          | 5.18          | 21.0                 |
| 5        | 0.1819          | 4.62          | 16.9                 |
| 6        | 0.1620          | 4.115         | 13.25                |
| 7        | 0.1443          | 3.66          | 10.25                |
| 8        | 0.1285          | 3.26          | 8.34                 |
| 9        | 0.1144          | 2.90          | 6.6                  |
| 10       | 0.1019          | 2.59          | 5.27                 |
| 11       | 0.0907          | 2.30          | 4.15                 |
| 12       | 0.0808          | 2.05          | 3.3                  |
| 13       | 0.0720          | 1.83          | 2.63                 |
| 14       | 0.0641          | 1.63          | 2.08                 |
| 15       | 0.0571          | 1.45          | 1.65                 |
| 16       | 0.0508          | 1.29          | 1.305                |
| 17       | 0.0453          | 1.14          | 1.01                 |
| 18       | 0.0403          | 1.02          | 0.79                 |
| 19       | 0.0359          | 0.91          | 0.65                 |
| 20       | 0.0320          | 0.81          | 0.51                 |
| 21       | 0.0285          | 0.72          | 0.407                |
| 22       | 0.0253          | 0.64          | 0.32                 |
| 23       | 0.0226          | 0.57          | 0.255                |
| 24       | 0.0201          | 0.51          | 0.205                |
| 25       | 0.0179          | 0.455         | 0.162                |
| 26       | 0.0159          | 0.40          | 0.125                |
| 27       | 0.0142          | 0.36          | 0.102                |
| 28       | 0.0126          | 0.320         | 0.08                 |
| 29       | 0.0113          | 0.287         | 0.0646               |
| 30       | 0.0100          | 0.254         | 0.0516               |
| 31       | 0.0089          | 0.226         | 0.04                 |
| 32       | 0.0080          | 0.203         | 0.0324               |
| 33       | 0.0071          | 0.180         | 0.0255               |
| 34       | 0.0063          | 0.160         | 0.02                 |
| 35       | 0.0056          | 0.142         | 0.0158               |
| 36       | 0.0050          | 0.127         | 0.0127               |
| 37       | 0.0045          | 0.114         | 0.01                 |
| 38       | 0.0040          | 0.101         | 0.008                |
| 39       | 0.0035          | 0.089         | 0.0062               |
| 40       | 0.0031          | 0.079         | 0.0049               |
| 41       | 0.0028          | 0.071         | 0.00395              |
| 42       | 0.0025          | 0.064         | 0.00321              |
| 43       | 0.0022          | 0.056         | 0.00246              |
| 44       | 0.00198         | 0.050         | 0.00196              |
| 45       | 0.00176         | 0.045         |                      |
| 46       | 0.00157         | 0.040         |                      |
| 47       | 0.00140         | 0.036         |                      |
| 48       | 0.00124         | 0.031         |                      |
| 49       | 0.00110         | 0.028         |                      |
| 50       | 0.00099         | 0.025         |                      |

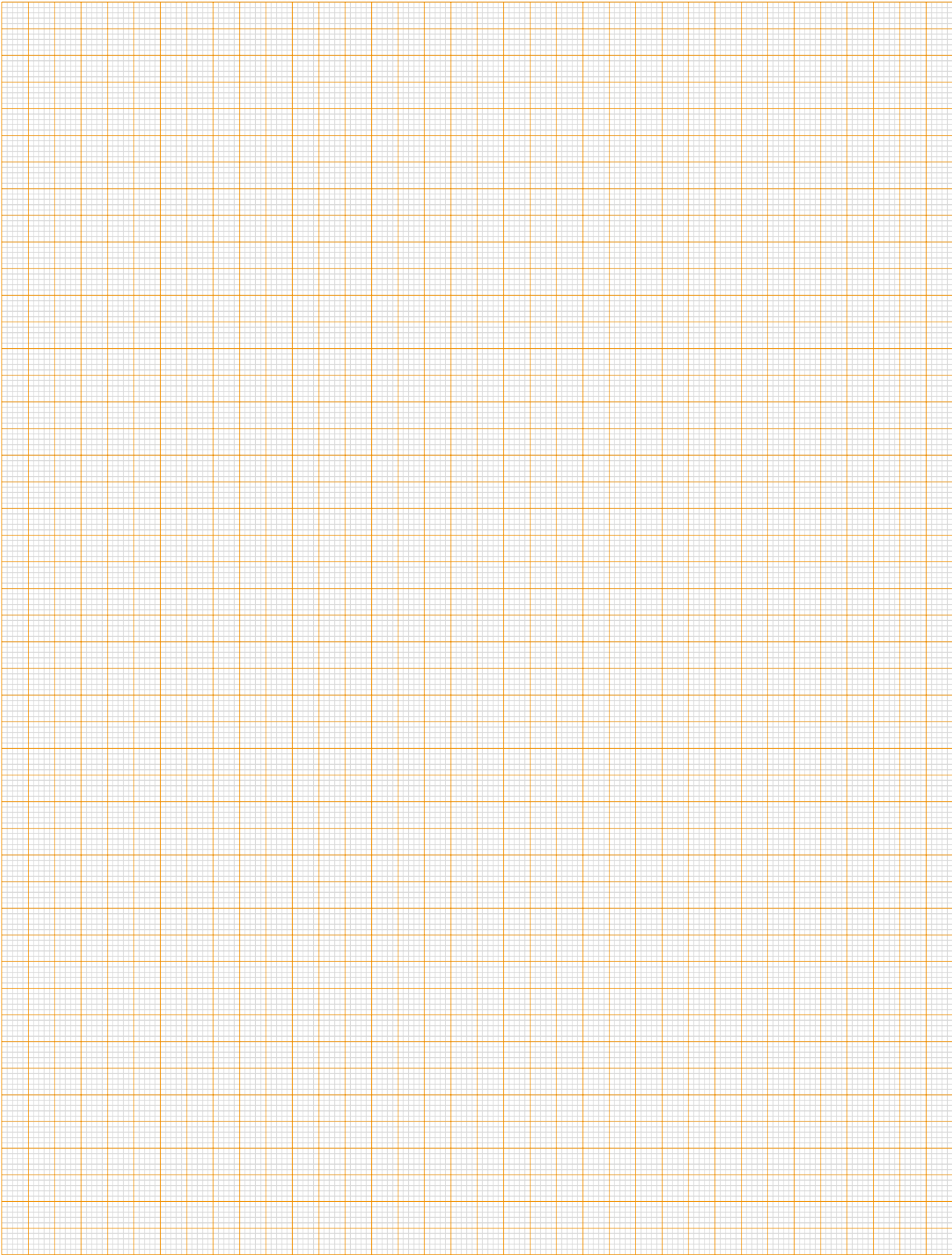
Remark: Starting from 0.03 mm<sup>2</sup> (AWG 32) a wire can be crimped.

**MCON  
Interconnection  
System**

|                                                                                                         | Page | Powertrain<br>Systems | Safety &<br>Security<br>Systems | Convenience | Driver<br>Information | Body & Chassis<br>Systems |
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| <b>MCON Tab and Receptacle Contacts</b>                                                                 |      |                       |                                 |             |                       |                           |
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| Receptacle Contacts                                                                                     | 2    | •                     | •                               | •           | •                     | •                         |
| <b>MCON 1.2 mm Contact System</b>                                                                       |      |                       |                                 |             |                       |                           |
| Receptacle Contacts – Locking Lance (LL)                                                                | 3    | •                     | •                               | •           | •                     | •                         |
| Tab Contacts – Locking Lance (LL)                                                                       | 4    | •                     | •                               | •           | •                     | •                         |
| Receptacle Contacts – Clean Body (CB)                                                                   | 5    | •                     | •                               | •           | •                     | •                         |
| Tab Contacts – Clean Body (CB)                                                                          | 6    | •                     | •                               | •           | •                     | •                         |
| <b>HPF 1.2 mm Contact System</b>                                                                        |      |                       |                                 |             |                       |                           |
| Receptacle Contacts – Locking Lance (LL)                                                                | 7    | •                     | •                               | •           | •                     | •                         |
| <b>MCON 2.8 mm Contact System</b>                                                                       |      |                       |                                 |             |                       |                           |
| Receptacle Contacts – Locking Lance (LL)                                                                | 8    | •                     | •                               | •           | •                     | •                         |
| <b>MCON 6.3 mm Contact System</b>                                                                       |      |                       |                                 |             |                       |                           |
| Receptacle Contacts – Clean Body (CB)                                                                   | 9    | •                     | •                               | •           | •                     | •                         |
| <b>MCON 8 mm Contact System</b>                                                                         |      |                       |                                 |             |                       |                           |
| Receptacle Contacts                                                                                     | 10   | •                     | •                               | •           | •                     | •                         |
| <b>MCON 9.5 mm Contact System</b>                                                                       |      |                       |                                 |             |                       |                           |
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| Sealed MCON 1.2 Receptacle Housing<br>for Locking Lance Contacts<br>4 to 8 Positions – up to 130°C      | 17   | •                     | •                               | •           | •                     | •                         |
| Sealed MCON 1.2 Tab Housing<br>for Locking Lance Contacts<br>2 to 8 Positions – up to 130°C             | 18   | •                     | •                               | •           | •                     | •                         |
| Sealed MCON 1.2 Gen2 Receptacle Housing<br>for Locking Lance Contacts<br>2 to 5 Positions – up to 150°C | 19   | •                     | •                               | •           | •                     | •                         |

**MCON  
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| <b>Housings and Connectors</b>                                                                          |                |                       |                                 |             |                       |                           |
| Sealed MCON 1.2 Gen2 Tab Housing<br>for Locking Lance Contacts<br>2 to 5 Positions – up to 150 °C       | 20             | •                     | •                               | •           | •                     | •                         |
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| HPF 1.2 Series – up to 150 °C                                                                           | 22             | •                     | •                               | •           | •                     | •                         |
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| Sealed MCON 1.2 Receptacle Housing<br>for Clean Body Contacts – up to 150 °C                            | 24             | •                     | •                               | •           | •                     | •                         |
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| 10 Positions Sealed Wire-to-wire or<br>Bulkhead Housings                                                | 30             | •                     | •                               | •           | •                     | •                         |
| 16 Position MCON 1.2 and MCON 2.8<br>Mixed Wire-to-wire Connector                                       | 31             | •                     | •                               | •           | •                     | •                         |
| 18 Position MCON 1.2 and MCON 2.8<br>Mixed Wire-to-wire Connector                                       | 32             | •                     | •                               | •           | •                     | •                         |
|                                                                                                         |                |                       |                                 |             |                       |                           |
| <b>Application Tooling</b>                                                                              | <b>33</b>      |                       |                                 |             |                       |                           |
|                                                                                                         |                |                       |                                 |             |                       |                           |
| <b>Numerical Index</b>                                                                                  | <b>34 – 36</b> |                       |                                 |             |                       |                           |
|                                                                                                         |                |                       |                                 |             |                       |                           |
| <b>TE Connectivity online</b>                                                                           | <b>40</b>      |                       |                                 |             |                       |                           |
|                                                                                                         |                |                       |                                 |             |                       |                           |
| <b>Global Contacts</b>                                                                                  | <b>41</b>      |                       |                                 |             |                       |                           |
|                                                                                                         |                |                       |                                 |             |                       |                           |
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#### POWERTRAIN SYSTEMS



#### SAFETY & SECURITY SYSTEMS



#### CONVENIENCE



#### DRIVER INFORMATION



#### BODY & CHASSIS SYSTEMS



## MCON TAB AND RECEPTACLE CONTACTS

### MCON INTERCONNECTION SYSTEM INTRODUCTION

MCON is a series of contact systems commonly used for electrical and electronic applications for passenger cars and commercial vehicles. The contact design meets standardized blade sizes and interface requirements of the automotive industry.

Except the miniaturized MCON 0.50 contact system, all contacts follow the two-piece contact design strategy to separate the electrical from the mechanical performance.

The MCON contact series is available for sealed and unsealed applications. For a fast and economic termination process, TE Application Tooling is offering a vast portfolio of application equipment.

#### The MCON advantages:

- High performance copper alloy
- Redundant contact point technology for higher reliability
- High vibration level support to meet future requirements
- Overstress protection of the contact springs
- Contact box with polarization and secondary locking feature\*
- Protected locking lance\*\*
- Sealed and unsealed version
- -40 °C up to 150 °C temperature range\*\*\*
- 3 directional secondary locking access

\* MCON 0.50, MCON 1.2, MCON 2.8 and MCON 6.3  
- same level for locking lance and secondary feature

\*\* Except clean body version

\*\*\* -40 °C to 180 °C with innovative surface technology available

MCON Interconnection System  
MCON 0.50 mm Contact System

Receptacle Contacts



Technical Features

**Contact Material:**  
CuNiSi/CuSn

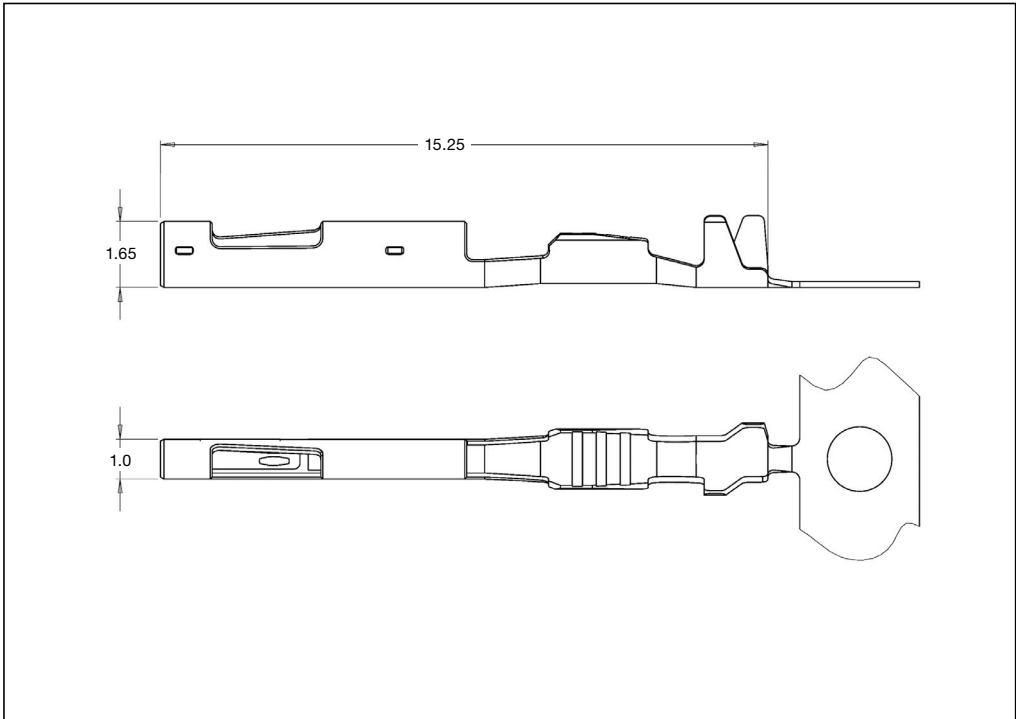
**Wire Size Range :**  
0.13 – 0.35 mm<sup>2</sup>

**Current Carrying Capacity :**  
up to 3 Ampere  
(@ 80 °C ambient temperature)

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

**Insertion Force :**  
Max 3.5 N

**Extraction Force:**  
Max 3 N



**Extraction Tool\*:**  
8-1579007-9

**Product Drawing:**  
2208562

**Product Specification:**  
108-94342

**Application Specification:**  
114-94191

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

Standard Receptacle Contact (SRC)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool<br>complete ◇) |
|---------------------------------------|---------------------------------|-------------|------------------------|---------------|--------------------------|
| 0.13 – 0.17                           | 0.85 – 1.10                     | 2177908     | -1 / -3                | 2151332-x     | 4-1579014-1              |
| 0.22 – 0.35                           | 0.95 – 1.20                     | 2177909     | -1 / -3                | 2151523-x     |                          |
|                                       | 1.20 – 1.30                     |             | -1 / -3                | 2151524-x     |                          |

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are  
RoHS and ELV compliant

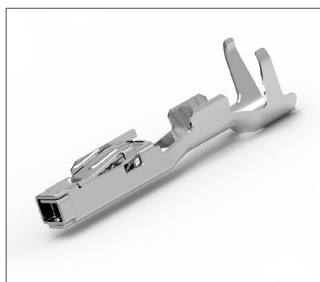
♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) In case of Tooling query  
please contact your local  
TE Connectivity representative

## MCON Interconnection System

### MCON 1.2 mm Contact System

#### Receptacle Contacts – Locking Lance (LL)



#### Technical Features

##### Contact Material:

CuSn / CuNiSi

##### Wire Size Range:

0.13 – 1.5 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 17 Ampere  
(@ 80 °C ambient temperature)

##### Total Temperature Range:

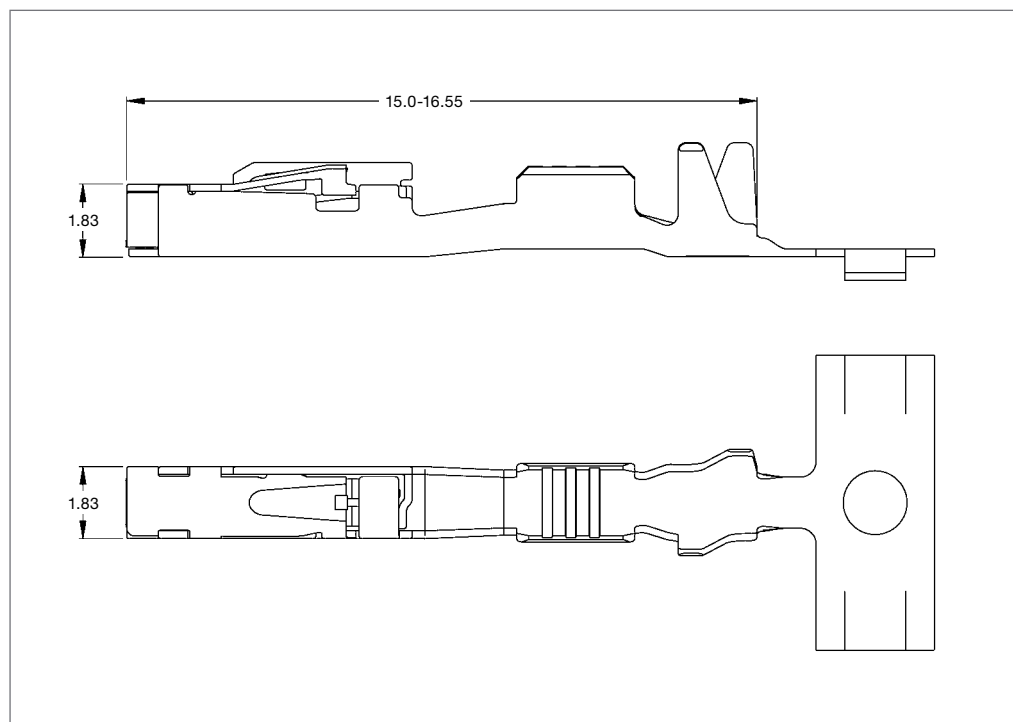
-40 °C ... +130 °C (tin plated)  
-40 °C ... +150 °C (gold plated)  
-40 °C ... +150 °C (silver plated)

##### Insertion Force:

Max 4 N

##### Extraction Force:

Max 2.5 N



##### Extraction Tool\*:

5-1579007-3

##### Product Drawing:

1452674

##### Product Specification:

108-18782

##### Application Specification:

114-18464

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Standard Receptacle Contact (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool     | Die Set       | Mating Tab Contact |
|------------------------------------|------------------------------|-------------|------------------------|---------------|---------------|---------------|--------------------|
| 0.13 – 0.22                        | 0.85 – 1.05                  | 2141861     | -1 / -2 / -3           | x-2151333-x   | On request ◇) | On request ◇) | 2141864            |
| 0.25 – 0.35                        | 1.10 – 1.75                  | 7-1452653   | -1 / -2 / -3           | x-2151042-x   | 539635-1      | 4-1579001-3   | 5-1418758          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 7-1452656   | -1 / -2 / -3           | x-2151037-x   |               | 4-1579001-2   | 5-1418760          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 7-1452659   | -1 / -2 / -3           | x-2151353-x   |               | 4-1579001-1   | 1418762            |

#### Receptacle Contact with Single Wire Sealing (SWS) System

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦)                                          | Hand Tool     | Die Set       | Mating Tab Contact |
|------------------------------------|------------------------------|-------------|------------------------|--------------------------------------------------------|---------------|---------------|--------------------|
| 0.13 – 0.22                        | 0.85 – 1.05                  | 2141970     | -1 / -2 / -3           | x-2151585-x                                            | On request ◇) | On request ◇) | 2141868            |
| 0.25 – 0.35                        | 1.10 – 1.75                  | 7-1452665   | -1 / -2 / -3           | x-2151041-x <sup>a)</sup><br>x-2266276-x <sup>b)</sup> | 539635-1      | 4-1579001-7   | 1718758            |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 7-1452668   | -1 / -2 / -3           | x-2151036-x                                            |               | 4-1579001-6   | 1718760            |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 7-1452671   | -1 / -2 / -3           | x-2151049-x                                            |               | 4-1579001-5   | 1718762            |

a) Sealed Application

b) Sealed Application – Insulation crimp width 3.05mm [.120"], applies insulation diameter range of 1.10-1.75mm [.043-.069"]

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are RoHS and ELV compliant

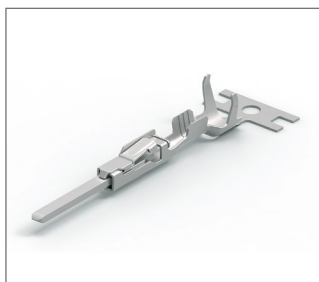
♦) The pre- and suffix for the applicators depends on the applied termination equipment

◇) In case of Tooling query please contact your local TE Connectivity representative

## MCON Interconnection System

### MCON 1.2 mm Contact System

#### Tab Contacts – Locking Lance (LL)



#### Technical Features

##### Contact Material:

CuSn/CuNiSi

##### Wire Size Range:

0.13-1.5 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 17 Ampere

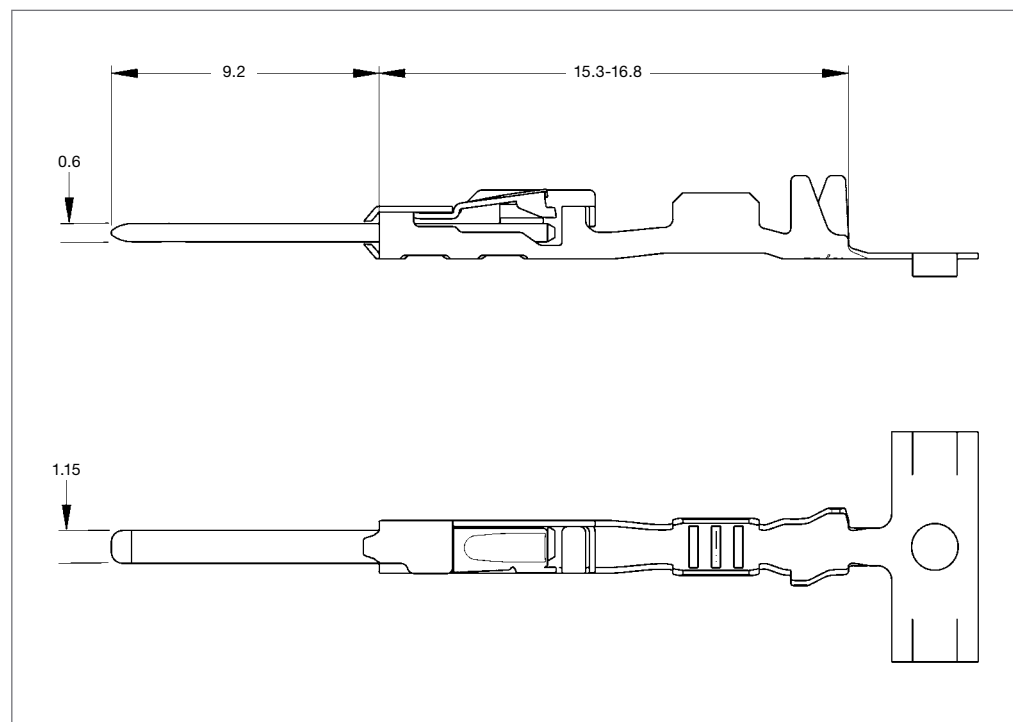
(@ 80 °C ambient temperature)

##### Total Temperature Range:

-40 °C ... +130 °C (tin plated)

-40 °C ... +150 °C (gold plated)

-40 °C ... +150 °C (silver plated)



##### Extraction Tool\*:

5-1579007-3

##### Product Drawing:

1418754

##### Product Specification:

108-18782

##### Application Specification:

114-18464

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Standard Tab Contact

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool     | Die Set       | Mating Rec Contact |
|------------------------------------|------------------------------|-------------|------------------------|---------------|---------------|---------------|--------------------|
| 0.13 – 0.17                        | 0.85 – 1.2                   | 2141864     | -1 /-2/ -3             | x-2151657-x   | On request ◇) | On request ◇) | 2141861            |
| 0.25 – 0.35                        | 1.1 – 1.75                   | 5-1418758   | -1 /-2/ -3             | x-2151311-x   | 539635-1      | 4-1579001-3   | 7-1452653          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 5-1418760   | -1 /-2/ -3             | x-2151300-x   |               | 4-1579001-2   | 7-1452656          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 1418762     | -1 /-2/ -3             | x-2151479-x   |               | 4-1579001-1   | 7-1452659          |

#### Tab Contact with Single Wire Sealing (SWS) System

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool ◇) | Die Set ◇)  | Mating Rec Contact |
|------------------------------------|------------------------------|-------------|------------------------|---------------|--------------|-------------|--------------------|
| 0.13 – 0.17                        | 0.85 – 1.2                   | 2141868     | -1 /-2/ -3             | x-2151658-x   | On request   | On request  | 2141970            |
| 0.25 – 0.35                        | 1.1 – 1.6                    | 1718758     | -1 /-2/ -3             | x-2151596-x   | 539635-1     | 4-1579001-7 | 7-1452665          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 1718760     | -1 /-2/ -3             | x-2151477-x   |              | 4-1579001-6 | 7-1452668          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 1718762     | -1 /-2/ -3             | x-2151480-x   |              | 4-1579001-5 | 7-1452671          |

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are RoHS and ELV compliant

♦) The pre- and suffix for the applicators depends on the applied termination equipment

◇) In case of Tooling query please contact your local TE Connectivity representative

## MCON Interconnection System

### MCON 1.2 mm Contact System

#### Receptacle Contacts – Clean Body (CB)



#### Technical Features

##### Contact Material:

CuSn / CuNiSi

##### Wire Size Range:

0.25 – 1.5 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 17 Ampere

(@ 80 °C ambient temperature)

##### Total Temperature Range:

-40 °C ... +130 °C (tin plated)

-40 °C ... +150 °C (gold plated)

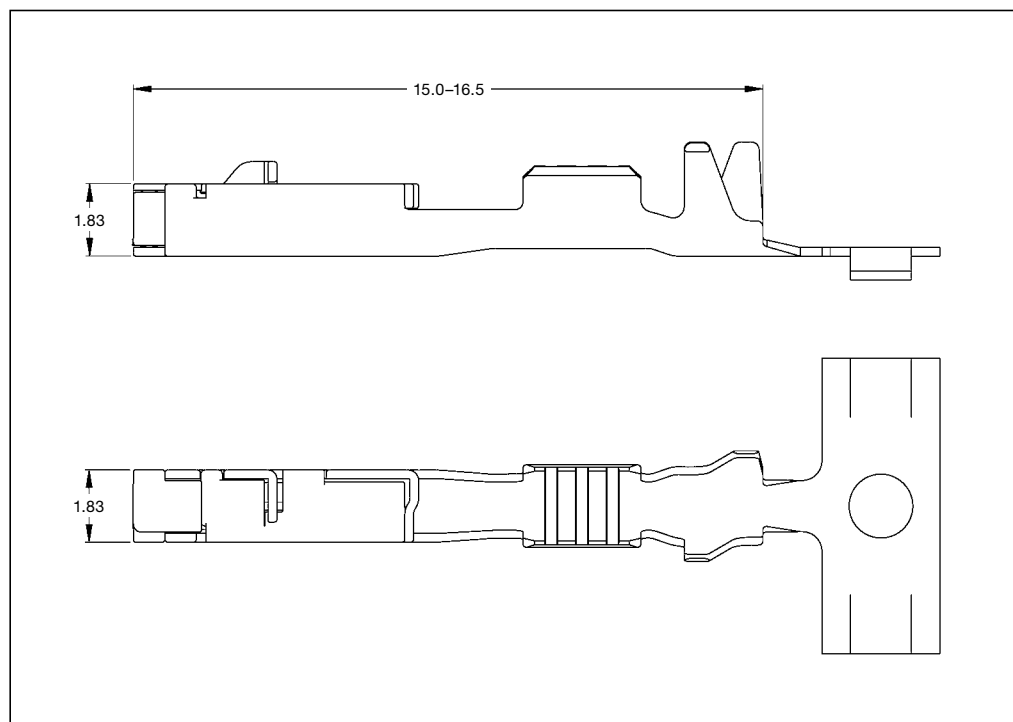
-40 °C ... +150 °C (silver plated)

##### Insertion Force:

Max 4 N

##### Extraction Force:

Max 2.5 N



##### Extraction Tool\*:

1-1579028-1

##### Product Drawing:

1534326

##### Product Specification:

108-18782

##### Application Specification:

114-18464

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Standard Receptacle Contact (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦ | Hand Tool ◇ | Die Set ◇ | Mating Tab Contact |
|------------------------------------|------------------------------|-------------|------------------------|--------------|-------------|-----------|--------------------|
| 0.25 – 0.35                        | 1.10 – 1.75                  | 1534594     | -1 / -2/ -3            | x-2151470-x  | 539635-1    | 1579001-6 | 1718348-x          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 1670144     | -1 / -2/ -3            | x-2151068-x  | 2-1579016-1 | –         | 1718350-x          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 1452503     | -1 / -2/ -3            | x-2151468-x  | 1-1579001-3 |           | N/A                |

#### Receptacle Contact with Single Wire Sealing (SWS) System

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦ | Hand Tool ◇ | Die Set ◇   | Mating Tab Contact |
|------------------------------------|------------------------------|-------------|------------------------|--------------|-------------|-------------|--------------------|
| 0.25 – 0.35                        | 1.10 – 1.75                  | 1418844     | -1 / -2/ -3            | x-2266013-x  |             | 3-1579001-9 | 2121114-x          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 1670146     | -1 / -2/ -3            | x-2151981-x  | 539635-1    | 2-1579016-2 | 2141116-x          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 1418850     | -1 / -2/ -3            | x-2266515-x  |             | 3-1579001-7 | 2177610-x          |

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are RoHS and ELV compliant

♦ The pre- and suffix for the applicators depends on the applied termination equipment

◇ In case of Tooling query please contact your local TE Connectivity representative

## MCON Interconnection System

### MCON 1.2 mm Contact System

#### Tab Contacts – Clean Body (CB)



#### Technical Features

##### Contact Material:

CuSn

##### Wire Size Range:

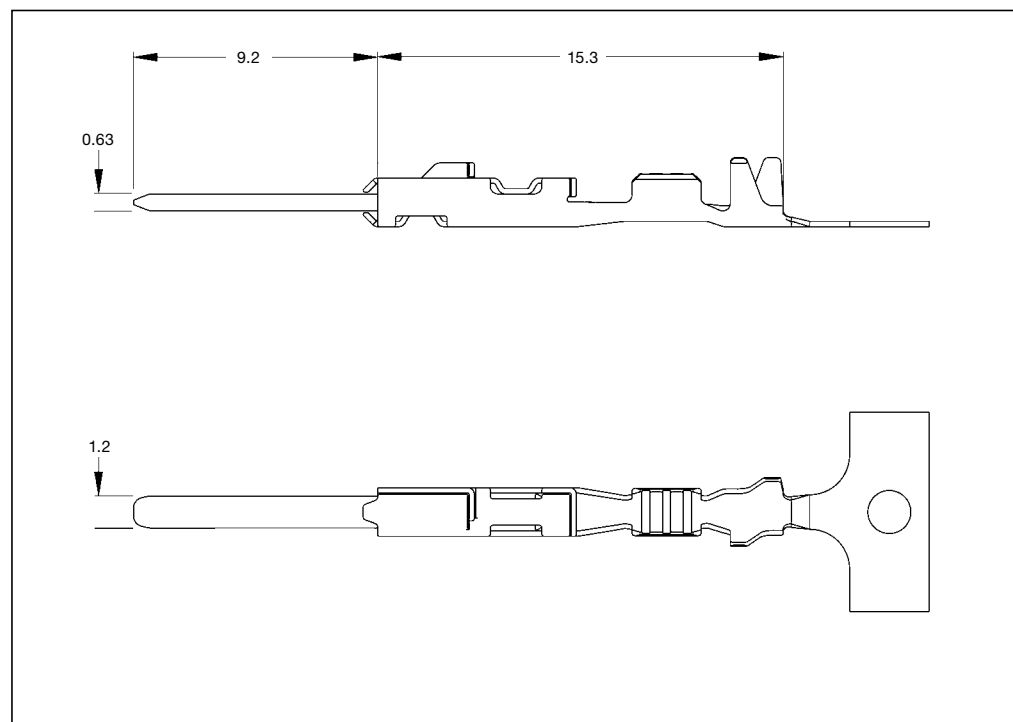
0.25 – 0.75 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 17 Ampere  
(@ 80 °C ambient temperature)

##### Total Temperature Range:

-40 °C ... +130 °C (tin plated)  
-40 °C ... +150 °C (gold plated)  
-40 °C ... +150 °C (silver plated)



##### Extraction Tool\*:

8-1579008-4

##### Product Drawing:

1718398

##### Product Specification:

108-18782

##### Application Specification:

114-18464

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Standard Tab Contact

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool | Die Set     | Mating Rec Contact |
|------------------------------------|------------------------------|-------------|------------------------|---------------|-----------|-------------|--------------------|
| 0.25 – 0.35                        | 1.1 – 1.6                    | 1718348     | -1 /-2 /-3             | x-2151042-x   | 539635-1  | 4-1579001-3 | 1534594-x          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 1718350     | -1 /-2 /-3             | x-2151037-x   |           | 4-1579001-2 | 1670144-x          |

#### Tab Contact with Single Wire Sealing (SWS) System

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool     | Die Set       | Mating Rec Contact |
|------------------------------------|------------------------------|-------------|------------------------|---------------|---------------|---------------|--------------------|
| 0.25 – 0.35                        | 1.1 – 1.6                    | 2141114     | -3                     | x-2266516-x   | 539635-1      | 4-1579001-7   | 1418844-x          |
| 0.50 – 0.75                        | 1.4 – 1.9                    | 2141116     | -3                     | x-2151477-x   | On request ◇) | On request ◇) | 1670146-x          |
| 1.0 – 1.5                          | 1.9 – 2.4                    | 2177610     | -3                     | x-2151480-x   |               |               | 1418850-x          |

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-2 = CuNiSi, selective gold plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are RoHS and ELV compliant

♦) The pre- and suffix for the applicators depends on the applied termination equipment

◇) In case of Tooling query please contact your local TE Connectivity representative

## MCON Interconnection System

### HPF 1.2 mm Contact System

#### Receptacle Contacts – Locking Lance (LL)



#### Technical Features

##### Wire Size Range:

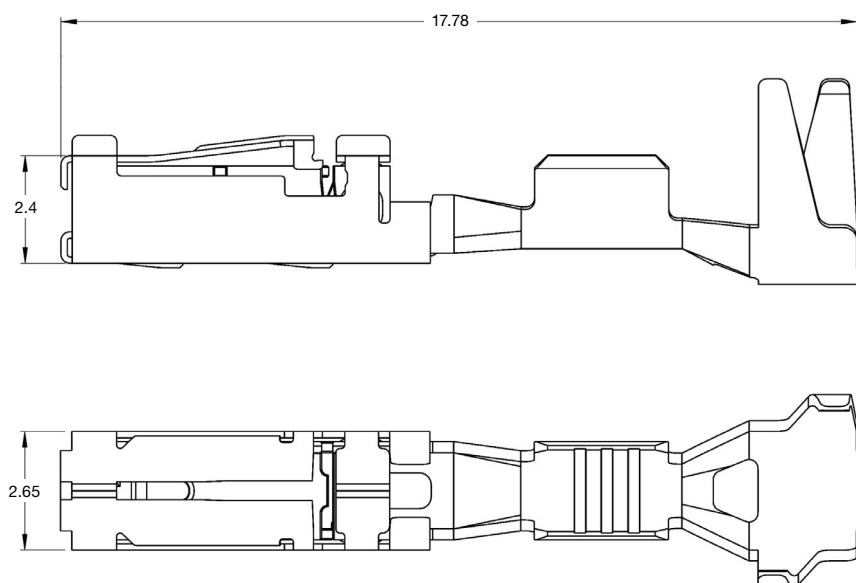
0.35 – 1.0 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 17 Ampere  
(@ 80 °C ambient temperature)

##### Total Temperature Range:

-40 °C ... +150 °C (silver plated)



##### Extraction Tool\*:

3-1579018-4

##### Product Drawing:

C-2282325

##### Product Specification:

108-94432

##### Application Specification:

114-18912

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Receptacle Contacts with Single Wire Sealing (SWS) System

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Number | Material<br>and Finish *) | Applicator ♦) | Hand Tool   | Die Set       |
|---------------------------------------|---------------------------------|-------------|---------------------------|---------------|-------------|---------------|
| 0.35                                  | 0.9 – 1.4mm                     | 2208363     | -3                        | x-2151518-x   | 6-1579016-5 | On request ◇) |
| 0.50                                  | 1.4 – 2.1mm                     | 2208362     | -3                        | x-2151519-x   |             |               |
| 0.75 – 1.00                           | 1.4 – 2.1mm                     | 2208360     | -3                        | x-2151520-x   |             |               |

\*) **Material and Finish:** xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are  
RoHS and ELV compliant

♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) In case of Tooling query  
please contact your local  
TE Connectivity representative

## MCON Interconnection System

### MCON 2.8mm Contact System

#### Receptacle Contacts – Locking Lance (LL)



#### Technical Features

##### Contact Material:

CuSn/CuNiSi

##### Wire Size Range:

0.20 – 4.0 mm<sup>2</sup>

##### Current Carrying Capacity:

up to 36 Ampere  
(at 80 °C ambient temperature)

##### Total Temperature Range:

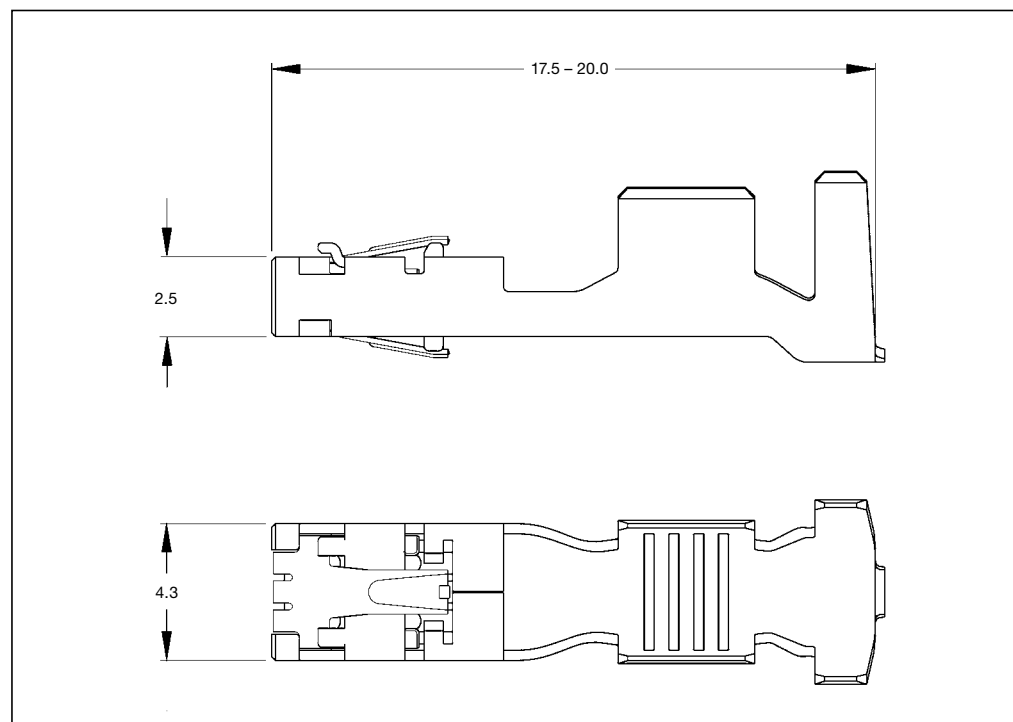
-40 °C ... +130 °C (tin plated)  
-40 °C ... +150 °C (silver plated)

##### Insertion Force:

Max. 7 N

##### Extraction Force:

Max. 6 N



##### Extraction Tool\*:

5-1579008-2

##### Product Drawing:

1719797

##### Product Specification:

108-94002

##### Application Specification:

114-18718

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

#### Standard Receptacle Contacts (SRC)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Numbers |                        |                                                        |           |             |
|---------------------------------------|---------------------------------|--------------|------------------------|--------------------------------------------------------|-----------|-------------|
|                                       |                                 | Strip Form   | Material and Finish *) | Applicator ♦)                                          | Hand Tool | Die Set     |
| 0.20 – 0.35                           | 1.15 – 1.40                     | 1719836      | -1 / -3                | x-2151590-x                                            | 539635-1  | 9-1579004-6 |
| 0.50                                  | 1.4 – 1.6                       | 1563719      | -1 / -3                | x-2151566-x                                            |           | 9-1579004-7 |
| 0.75 – 1.00                           | 1.7 – 2.1                       | 1719838      | -1 / -3                | x-2151390-x                                            |           | 9-1579004-7 |
| >1.0 – 2.50                           | 2.2 – 3.0                       | 1719840      | -1 / -3                | x-2151509-x <sup>a)</sup><br>x-2151604-x <sup>b)</sup> |           | 9-1579004-8 |
| >2.5 – 4.00                           | 3.4 – 3.7                       | 1718475      | -1 / -3                | x-2151389-x                                            |           | 9-1579004-9 |

a) all wire sizes except for 2.5 ACOME

b) for 2.5 mm<sup>2</sup> ACOME Wire only (preliminary)

#### Receptacle Contacts with Single Wire Seal (SWS) System

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Numbers |                        |                                                        |               |             |
|---------------------------------------|---------------------------------|--------------|------------------------|--------------------------------------------------------|---------------|-------------|
|                                       |                                 | Strip Form   | Material and Finish *) | Applicator ♦)                                          | Hand Tool     | Die Set     |
| 0.50                                  | 1.4 – 1.6                       | 1563935      | -1 / -3                | x-2151513-x                                            | On request ◇) | 6-1579014-7 |
| 0.75 – 1.00                           | 1.7 – 2.1                       | 1670802      | -1 / -3                | x-2151561-x                                            | 539635-1      | 6-1579014-1 |
| >1.0 – 2.50                           | 2.2 – 3.0                       | 1670804      | -1 / -3                | x-2151570-x <sup>a)</sup><br>x-2151582-x <sup>b)</sup> |               | 6-1579014-2 |
| >2.5 – 4.00                           | 3.4 – 3.7                       | 1670806      | -1 / -3                | x-2266517-x                                            |               | 6-1579014-3 |

a) all wire sizes except for 2.5 ACOME

b) for 2.5 mm<sup>2</sup> ACOME Wire only

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are  
RoHS and ELV compliant

♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) In case of Tooling query  
please contact your local  
TE Connectivity representative

**Receptacle Contacts – Clean Body (CB)**



**Technical Features**

**Contact Material:**

CuSn/CuNiSi

**Wire Size Range:**

>2.5 – 6.0 mm<sup>2</sup>

**Current Carrying Capacity:**

up to 54 Ampere  
(at 80 °C ambient temperature)

**Total Temperature Range:**

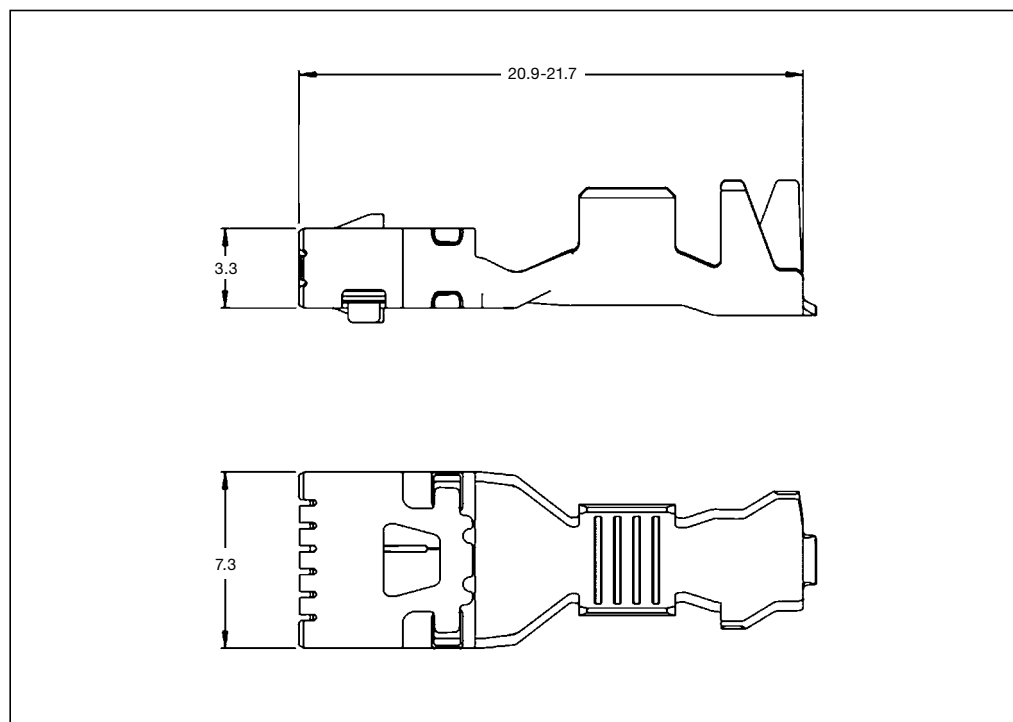
–40 °C ... +130 °C (tin plated)  
–40 °C ... +150 °C (silver plated)

**Insertion Force:**

Max. 15 N

**Extraction Force:**

Max. 10 N



**Extraction Tool\*:**

1579028-1

**Product Drawing:**

2177772

**Product Specification:**

108-94149

**Application Specification:**

114-18944

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

**Standard Receptacle Contacts (SRC) in Clean Body**

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Numbers |                           |               |               |               |
|---------------------------------------|---------------------------------|--------------|---------------------------|---------------|---------------|---------------|
|                                       |                                 | Strip Form   | Material<br>and Finish *) | Applicator ♦) | Hand Tool     | Die Set       |
| >2.5 – 4.0                            | 3.4 – 3.7                       | 2177770      | -1 / -3                   | x-2266096-x   | On request ◇) | On request ◇) |
| >4.0 – 6.0                            | 4.0 – 4.3                       | 2177771      | -1 / -3                   | x-2266095-x   |               |               |

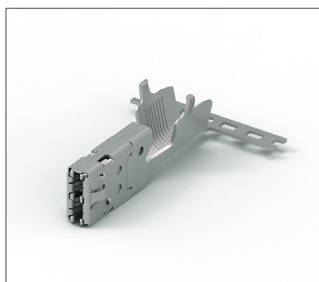
\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are  
RoHS and ELV compliant

♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) In case of Tooling query  
please contact your local  
TE Connectivity representative

## Receptacle Contacts



### Technical Features

**Wire Size Range:**

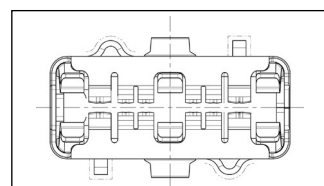
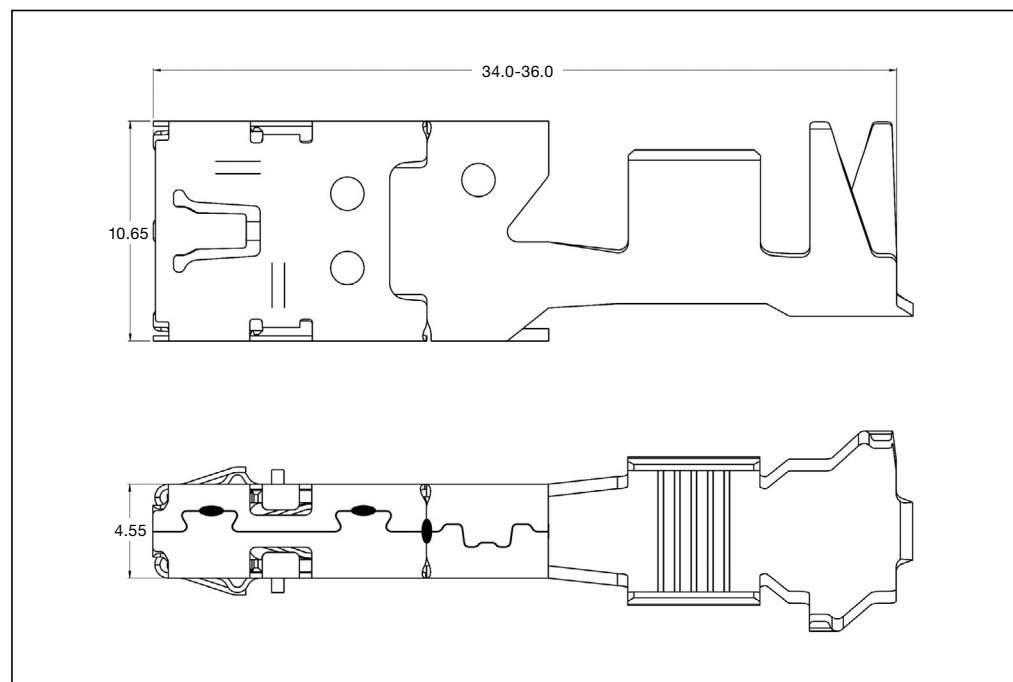
>2.5 – 16 mm<sup>2</sup>

**Current Carrying Capacity:**

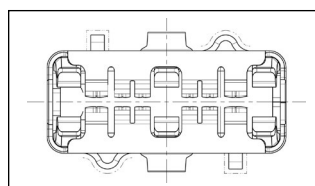
up to 90 Ampere  
(@ 80 °C ambient temperature)

**Total Temperature Range:**

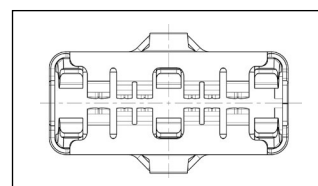
–40 °C ... +180 °C (silver plated)



Coding 1



Coding 2



Coding 5

**Extraction Tool\*:**  
2-1579028-2

**Product Drawing:**  
2208761

**Product Specification:**  
108-94421

**Application Specification:**  
114-94285

\* The option which extraction tool is the right tool for the application is dependent on the assembly of the contact and the connector.

### Standard Receptacle Contact (SRC)

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Coding ●)    | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool   | Die Set       |
|------------------------------------|------------------------------|--------------|-------------|------------------------|---------------|-------------|---------------|
| >2.5 – 4.0                         | 2.7 – 3.7                    | 1- / 2- / 5- | 2208762     | -3                     | x-2266457-x   | 2-1579028-2 | On request ◇) |
| 6.0 – 10.0                         | 4.0 – 6.5                    | 1- / 2- / 5- | 2208763     | -3                     | x-2266456-x   |             |               |
| 16                                 | 8.3 max.                     | 1- / 2- / 5- | 2208764     | -3                     | x-2276053-x   |             |               |

### Receptacle Contact with Single Wire Seal (SWS) System

| Wire Size Range (mm <sup>2</sup> ) | Insulation Diameter (mm) FLR | Coding ●) | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool   | Die Set       |
|------------------------------------|------------------------------|-----------|-------------|------------------------|---------------|-------------|---------------|
| >2.5 – 4.0                         | 2.7 – 3.7                    | 1- / 2-   | 2208765     | -3                     | x-2266455-x   | 2-1579028-2 | On request ◇) |
| 6.0 – 10.0                         | 4.0 – 6.5                    | 1- / 2-   | 2208766     | -3                     | x-2266457-x   |             |               |

●) Coding: 1-xxx = Coding 1  
2-xxx = Coding 2  
5-xxx = Coding 5

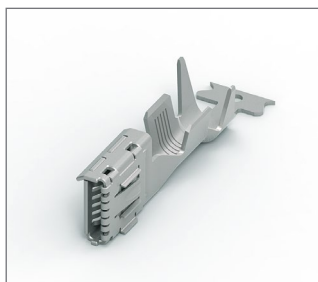
\*) Material and Finish: xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are RoHS and ELV compliant

♦) The pre- and suffix for the applicators depends on the applied termination equipment

◇) In case of Tooling query please contact your local TE Connectivity representative

## Receptacle Contacts



### Technical Features

**Contact Material:**

CuNiSi/CuSn

**Wire Size Range:**

>10 – 16 mm<sup>2</sup>

**Current Carrying Capacity:**

up to 100 Ampere  
(at 80 °C ambient temperature)

**Total Temperature Range:**

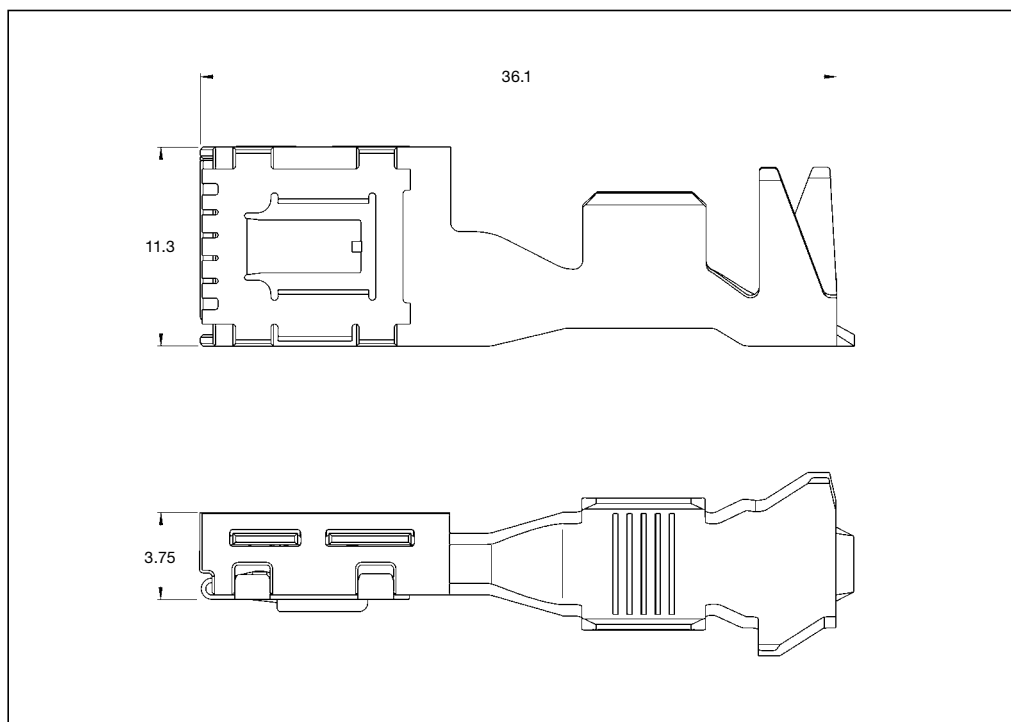
–40 °C ... +130 °C (tin plated)  
–40 °C ... +150 °C (silver plated)

**Insertion Force:**

Max. 35 N

**Extraction Force:**

Max. 10 N



**Product Drawing:**

1823044

**Product Specification:**

108-94150

**Application Specification:**

114-18945

### Standard Receptacle Contact (SRC)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Part Number | Material<br>and Finish *) | Applicator ♦) | Hand Tool     | Die Set       |
|---------------------------------------|---------------------------------|-------------|---------------------------|---------------|---------------|---------------|
| >10                                   | 5.8 – 6.8                       | 1-1823032   | -1 / -3                   | x-1893256-x   | On request ◇) | On request ◇) |
| 16                                    | 7.5 – 8.1                       | 1-1823034   | -1 / -3                   | x-1893255-x   |               |               |

\*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated  
xxx-3 = CuNiSi, selective silver plated

**Note:** All part numbers are  
RoHS and ELV compliant

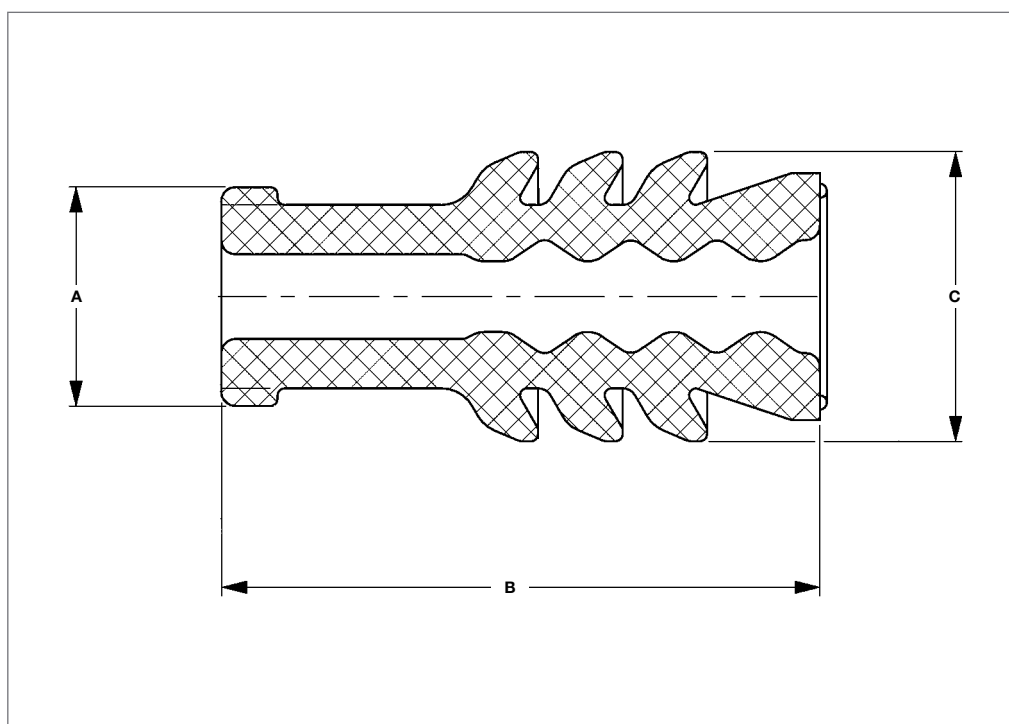
♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) In case of Tooling query  
please contact your local  
TE Connectivity representative

## MCON Interconnection System

### Single Wire Seals and Sealing Plugs for MCON Contacts

#### Single Wire Seals and Sealing Plugs for MCON Contacts



#### Single Wire Seals and Sealing Plugs for MCON Contacts

| Cavity Diameter (mm) | Insulation Diameter (mm) FLR | Color   | Part Number | Dimensions (mm) |      |      | Used for |
|----------------------|------------------------------|---------|-------------|-----------------|------|------|----------|
|                      |                              |         |             | A               | B    | C    |          |
| 3.55                 | 0.9-1.4                      | Yellow  | 967067-2    | 3.1             | 8.5  | 4.1  | MCON 1.2 |
|                      | 1.4-2.1                      | Green   | 967067-1    |                 |      |      |          |
|                      | Sealing Plug                 | Blue    | 967056-1    |                 |      |      |          |
| 3.58                 | 1.2-1.4                      | White   | 2297816-1   | 3.2             | 13.0 | 3.9  | HPF 1.2  |
|                      | 1.4-1.6                      | Green   | 2297817-1   |                 |      |      |          |
|                      | 1.7-1.9                      | Orange  | 2297818-1   |                 |      |      |          |
|                      | 1.9-2.1                      | Yellow  | 2297819-1   |                 |      |      |          |
| 3.95                 | 0.9-1.9                      | Gray    | 963142-1    | 3.1             | 8.6  | 4.7  | MCON 1.2 |
|                      | 1.9-2.4                      | Green   | 967067-1    |                 |      |      |          |
|                      | Sealing Plug                 | White   | 963143-1    |                 |      |      |          |
| 4.9                  | 1.4-2.1                      | Blue    | 828904-2    | 3.4             | 7.8  | 5.6  | MCON 2.8 |
|                      | 2.2-3.0                      | White   | 828905-1    |                 |      |      |          |
|                      | Sealing Plug                 | Natural | 828922-1    |                 |      |      |          |
| 6.4                  | 3.4-3.7                      | Green   | 828985-1    | 3.4             | 7.8  | 7.2  | MCON 2.8 |
|                      | Sealing Plug                 | Brown   | 828986-1    |                 |      |      |          |
| 8.5                  | 3.4-3.7                      | Green   | 967608-1    | 4.1             | 9.3  | 9.4  | MCON 6.3 |
|                      | 4.0-4.3                      | Blue    | 1719972-1   | 5.5             |      |      |          |
| 14.4                 | 5.7-6.5                      | White   | 2300588-1   | 9.95            | 16.5 | 15.5 | MCON 8   |
|                      | 5.4-6.0                      | Brown   | 2300588-2*  |                 |      |      |          |
|                      | 4.4-5.0                      | Gray    | 2300588-3*  |                 |      |      |          |
|                      | 4.0-4.4                      | Yellow  | 2300588-4*  |                 |      |      |          |
|                      | 3.3-3.7                      | Blue    | 2300588-5*  |                 |      |      |          |
|                      | 2.7-3.0                      | Green   | 2300588-6*  |                 |      |      |          |

\*) On request

#### POWERTRAIN SYSTEMS



#### SAFETY & SECURITY SYSTEMS



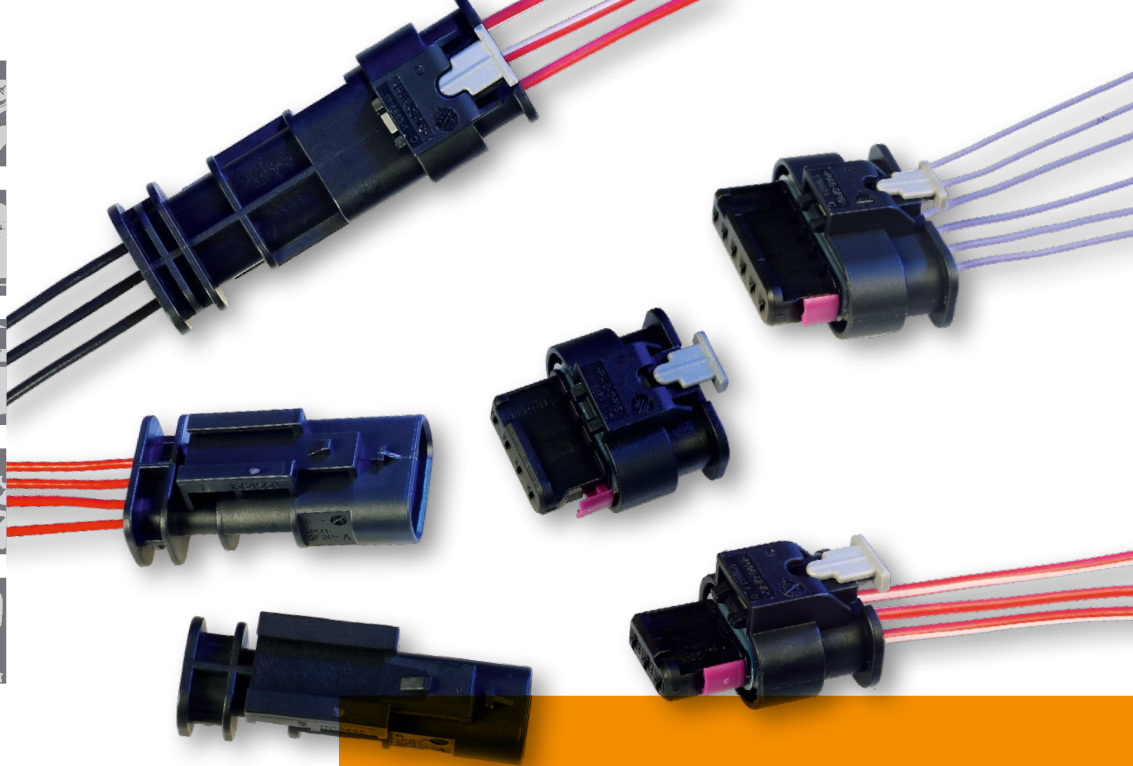
#### CONVENIENCE



#### DRIVER INFORMATION



#### BODY & CHASSIS SYSTEMS



## HOUSINGS AND CONNECTORS

### MCON Interconnection System INTRODUCTION

#### MCON connectors offer high reliability for use in the automotive industry

The new generation MCON connector system offers receptacle and tab housings with capability for waterproofing and resistance to conditions of extreme vibration.

The system is designed for electronic and electrical applications in motor vehicles, where vibrations and mechanical stress, in the long term, can affect the quality on the contact system.

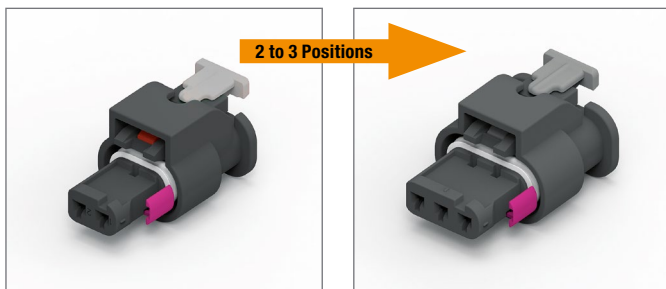
#### Features

- CPA (Connector Position Assurance) capability
- High reliability status - supported for long term use
- High vibration level supported
- Perfect design to avoid quality problems, reduce manufacturing and service cost
- Integrated secondary locking device delivered in pre-locked position
- Wire-to-Wire sealed and un-sealed connectors (SWS)
- Polarization, several keyings
- Locking mechanism for smaller connectors/ mating aid for higher numbers of ways

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 to 3 Positions – up to 130 °C



#### Technical Features

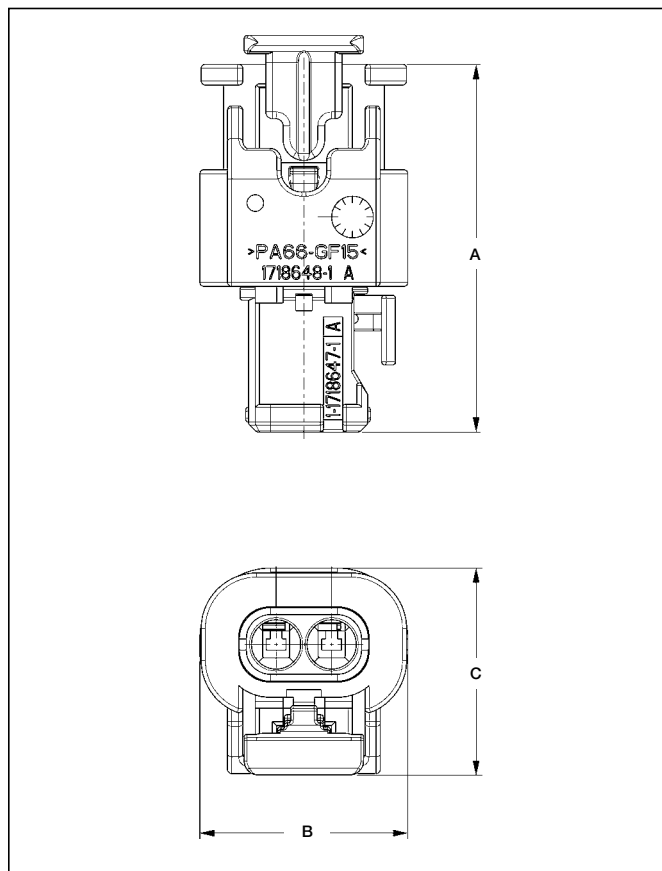
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Total Temperature Range:**  
130 °C

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861

**Extraction Tool:**  
5-1579007-3



#### Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 to 3 Positions

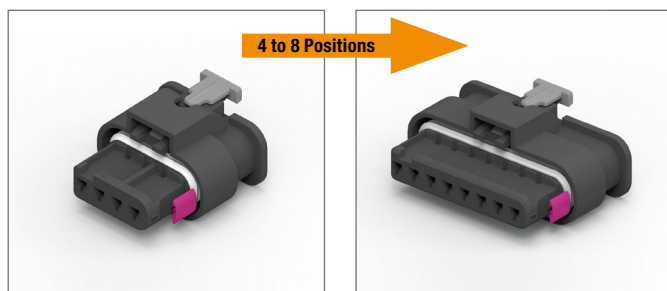
| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° turned Outer Housing | Part Number  | A    | Dimensions (mm) B | C    | Mating Tab Housing |
|------------------|----------------|---------------|--------------|---------------------------|--------------|------|-------------------|------|--------------------|
| 2                | A              | Black         | Yes          | —                         | 1-1718643-1  | 26.5 | 15                | 14.8 | 1-1703498-x        |
|                  |                |               | No           | —                         | 1-1670916-1  |      |                   |      | 1-1703498-x        |
|                  |                |               | Yes          | Yes                       | 1-1718888-1  |      |                   |      | N/A                |
|                  |                |               | No           | Yes                       | 1-1670915-1  |      |                   |      | N/A                |
| 2                | B              | Yellow        | Yes          | —                         | 1-1718643-4  | 26.5 | 15                | 14.8 | 1-1703498-x        |
|                  |                |               | Yes          | —                         | 2-1718643-1  |      |                   |      | 2-1703498-x        |
|                  |                |               | No           | —                         | 2-1670916-1  |      |                   |      | 2-1703498-x        |
|                  |                |               | Yes          | Yes                       | 2-1718888-1  |      |                   |      | N/A                |
|                  |                | Natural       | No           | —                         | 2-1670915-1* |      |                   |      | N/A                |
|                  |                |               | Yes          | —                         | 2-1718643-4  |      |                   |      | 2-1703498-x        |
|                  |                |               | Yes          | —                         | 3-1718643-1  |      |                   |      | N/A                |
|                  |                |               | No           | —                         | 3-1670916-1* |      |                   |      | N/A                |
| 2                | C              | Blue          | Yes          | Yes                       | 3-1718888-1  | 26.5 | 15                | 14.8 | N/A                |
|                  |                |               | No           | —                         | 3-1670915-1* |      |                   |      | N/A                |
|                  |                | Yellow        | Yes          | —                         | 3-1718643-4  |      |                   |      | N/A                |
|                  |                |               | Yes          | —                         | 1-1718644-1  |      |                   |      | 1-1703494-x        |
|                  |                |               | No           | —                         | 1-1670917-1  |      |                   |      | 1-1703494-x        |
|                  |                | Black         | Yes          | —                         | 2-1718644-1  |      |                   |      | 2-1703494-x        |
|                  |                |               | No           | —                         | 2-1670917-1  |      |                   |      | 2-1703494-x        |
|                  |                |               | Yes          | —                         | 3-1718644-1* |      |                   |      | N/A                |
| 3                | A              | Blue          | No           | —                         | 3-1670917-1* |      |                   |      | N/A                |
|                  |                |               | Yes          | —                         | 1-1718644-1  | 26.5 | 19                | 14.8 | 1-1703494-x        |
|                  |                |               | No           | —                         | 1-1670917-1  |      |                   |      | 1-1703494-x        |
|                  |                |               | Yes          | —                         | 2-1718644-1  |      |                   |      | 2-1703494-x        |
|                  |                |               | No           | —                         | 2-1670917-1  |      |                   |      | 2-1703494-x        |
| 3                | B              | Natural       | Yes          | —                         | 3-1718644-1* |      |                   |      | N/A                |
|                  |                |               | No           | —                         | 3-1670917-1* |      |                   |      | N/A                |
|                  |                | Blue          | Yes          | —                         | 1-1718644-1  |      |                   |      | 1-1703494-x        |
|                  |                |               | No           | —                         | 1-1670917-1  |      |                   |      | 1-1703494-x        |

\* on request

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Receptacle Housing for Locking Lance contacts - 4 to 8 Positions – up to 130 °C



#### Technical Features

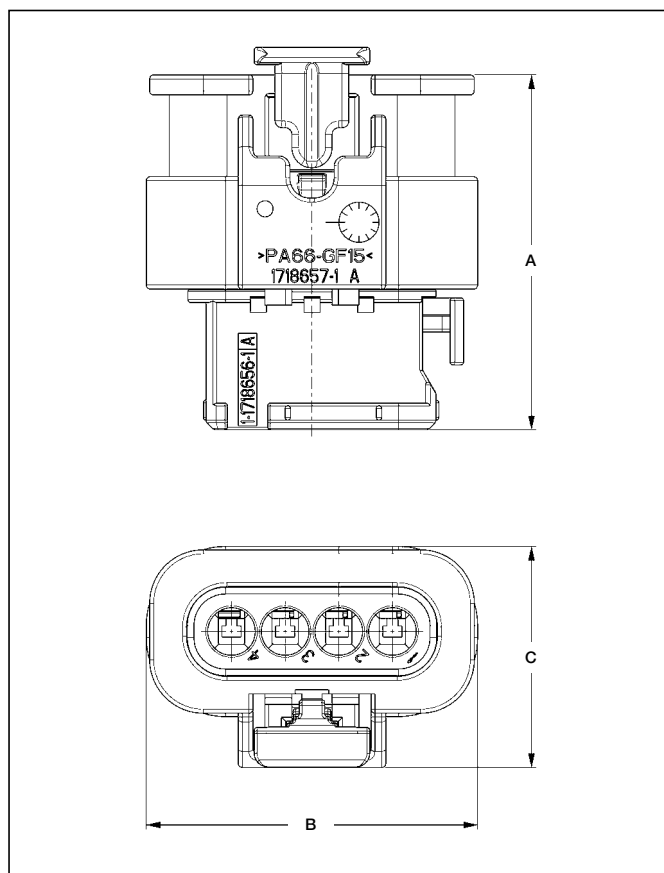
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Total Temperature Range:**  
130 °C

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861

**Extraction Tool:**  
5-1579007-3



#### Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 4 to 8 Positions

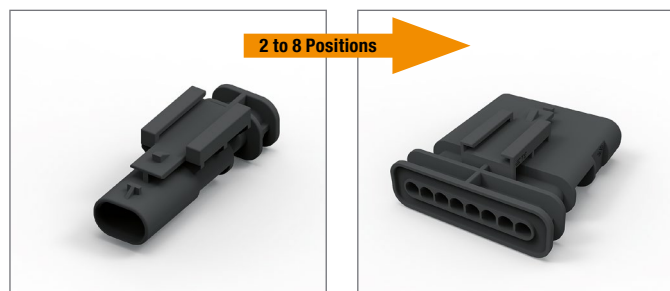
| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° turned Outer Housing | Part Number  | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|--------------|---------------------------|--------------|-----------------|------|------|--------------------|
|                  |                |               |              |                           |              | A               | B    | C    |                    |
| 4                | A              | Black         | Yes          | Yes                       | 1-1718645-1  | 26.5            | 24.7 | 16.5 | 1-1564559-x        |
|                  |                |               | No           |                           | 1-1670918-1  |                 |      |      | 1-1564559-x        |
|                  |                |               | No           |                           | 1-2286471-1  |                 |      |      | N/A                |
|                  |                |               | Yes          |                           | 1-2289107-1  |                 |      |      | N/A                |
|                  | B              | Natural       | Yes          | Yes                       | 2-1718645-1  |                 |      |      | 2-1564559-x        |
|                  |                |               | No           |                           | 2-1670918-1  |                 |      |      | 2-1564559-x        |
|                  |                |               | Yes          |                           | 3-1718645-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 3-1670918-1* |                 |      |      | N/A                |
| 5                | A              | Black         | Yes          | Yes                       | 1-1718806-1  | 26.5            | 28.7 | 16.5 | 1-2141520-x        |
|                  |                |               | No           |                           | 1-1670921-1  |                 |      |      | 1-2141520-x        |
|                  |                |               | Yes          |                           | 1-2177255-1  |                 |      |      | N/A                |
|                  |                |               | Yes          |                           | 2-1718806-1  |                 |      |      | 2-2141520-x        |
|                  | B              | Natural       | No           | Yes                       | 2-1670921-1  |                 |      |      | 2-2141520-x        |
|                  |                |               | Yes          |                           | 3-1718806-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 3-1670921-1* |                 |      |      | N/A                |
|                  |                |               | Yes          |                           | 3-1670921-1* |                 |      |      | N/A                |
| 6                | A              | Black         | Yes          | Yes                       | 1-1718646-1  | 26.5            | 32.7 | 16.5 | 1-2141324-x        |
|                  |                |               | No           |                           | 1-1670919-1  |                 |      |      | 1-2141324-x        |
|                  |                |               | Yes          |                           | 2-1718646-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 2-1670919-1* |                 |      |      | N/A                |
|                  | B              | Natural       | Yes          | Yes                       | 1-1719393-1  |                 |      |      | 1-1703506-1        |
|                  |                |               | No           |                           | 1-1670920-1  |                 |      |      | 1-1703506-1        |
|                  |                |               | Yes          |                           | 2-1719393-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 2-1670920-1* |                 |      |      | N/A                |
| 8                | A              | Black         | Yes          | Yes                       | 1-1719393-1  | 26.5            | 40.7 | 16.5 | 1-1703506-1        |
|                  |                |               | No           |                           | 1-1670920-1  |                 |      |      | 1-1703506-1        |
|                  |                |               | Yes          |                           | 2-1719393-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 2-1670920-1* |                 |      |      | N/A                |
|                  | B              | Natural       | Yes          | Yes                       | 1-1719393-1  |                 |      |      | 1-1703506-1        |
|                  |                |               | No           |                           | 1-1670920-1  |                 |      |      | 1-1703506-1        |
|                  |                |               | Yes          |                           | 2-1719393-1* |                 |      |      | N/A                |
|                  |                |               | No           |                           | 2-1670920-1* |                 |      |      | N/A                |

\* on request

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Tab Housing for Locking Lance Contacts - 2 to 8 Positions – up to 130 °C



#### Technical Features

##### Wire Size Range:

max. 1.0 mm<sup>2</sup>

##### Total Temperature Range:

130 °C

##### Product Specification:

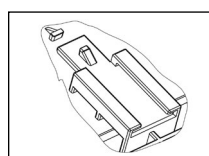
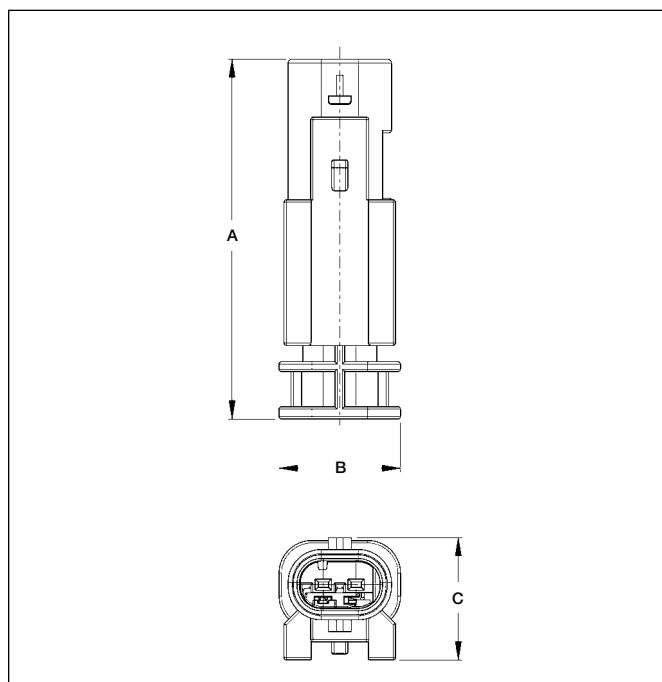
168-94177-1

##### Application Specification:

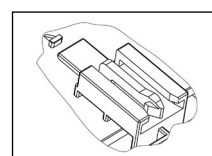
114-18910-1

##### Extraction Tool:

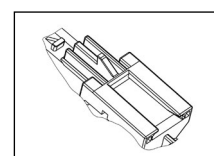
1-1579028-5



X-XXXXXXX-1



X-XXXXXXX-2



X-XXXXXXX-3

#### Sealed MCON 1.2 Tab Housing for Locking Lance Contacts - 2 to 8 Positions

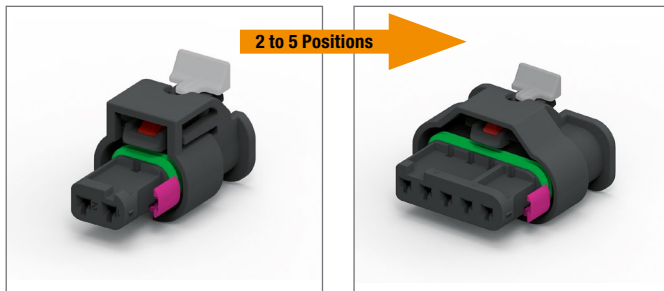
| No. of Positions | Keying Options | Housing Color | Part Number  | A  | Dimensions (mm)<br>B | C     | Mating Rec Housing         |
|------------------|----------------|---------------|--------------|----|----------------------|-------|----------------------------|
| 2                | A              | Black         | 1-1703498-1  | 44 | 14.8                 | 14.95 | 1-1718643-1 or 1-1670916-1 |
|                  |                |               | 1-1703498-2  |    |                      | 17.05 |                            |
|                  |                |               | 1-1703498-3  |    |                      | 17.1  |                            |
|                  | B              | Gray          | 2-1703498-1  |    |                      | 14.95 | 2-1718643-1 or 2-1670916-1 |
|                  |                |               | 2-1703498-2  |    |                      | 17.05 |                            |
|                  |                |               | 2-1703498-3  |    |                      | 17.1  |                            |
| 3                | A              | Black         | 1-1703494-1  | 44 | 18.8                 | 14.95 | 1-1718644-1 or 1-1670917-1 |
|                  |                |               | 1-1703494-2  |    |                      | 17.05 |                            |
|                  | B              | Gray          | 2-1703494-1  |    |                      | 14.95 | 2-1718644-1 or 2-1670917-1 |
|                  |                |               | 2-1703494-2  |    |                      | 17.05 |                            |
| 4                | A              | Black         | 1-1564559-1  | 44 | 24.4                 | 16.3  | 1-1718645-1 or 1-1670918-1 |
|                  |                |               | 1-1564559-2  |    |                      | 18.1  |                            |
|                  | B              | Gray          | 2-1564559-1  |    |                      | 16.3  | 2-1718645-1 or 2-1670918-1 |
|                  |                |               | 2-1564559-2* |    |                      | 18.1  |                            |
| 5                | A              | Black         | 1-2141520-1  | 44 | 28.2                 | 16.3  | 1-1718806-1 or 1-1670921-1 |
|                  |                |               | 1-2141520-2* |    |                      | 18.1  | 2-1718806-1 or 2-1670921-1 |
|                  | B              | Gray          | 2-2141520-1  |    |                      | 16.3  | 1-1718806-1 or 1-1670921-1 |
|                  |                |               | 2-2141520-2* |    |                      | 18.1  | 2-1718806-1 or 2-1670921-1 |
| 6                | A              | Black         | 1-2141324-1  | 44 | 32.2                 | 16.3  | 1-1718646-1 or 1-1607919-1 |
|                  |                |               | 1-2141324-2* |    |                      | 18.1  | 2-1718646-1 or 2-1670919-1 |
|                  | B              | Gray          | 2-2141324-1* |    |                      | 16.3  | 1-1718646-1 or 1-1607919-1 |
|                  |                |               | 2-2141324-2* |    |                      | 18.1  | 2-1718646-1 or 2-1670919-1 |
| 8                | A              | Black         | 1-1703506-1  | 44 | 40.2                 | 16.6  | 1-1719393-1 or 1-1670920-1 |
|                  |                |               | 1-1703506-2  |    |                      | 18.7  | 2-1719393-1 or 2-1670920-1 |
|                  | B              | Gray          | 2-1703506-1* |    |                      | 16.6  | 1-1719393-1 or 1-1670920-1 |
|                  |                |               | 2-1703506-2* |    |                      | 18.7  | 2-1719393-1 or 2-1670920-1 |

\* on request

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Gen2 Receptacle Housing for Locking Lance Contacts – up to 150 °C



#### Technical Features

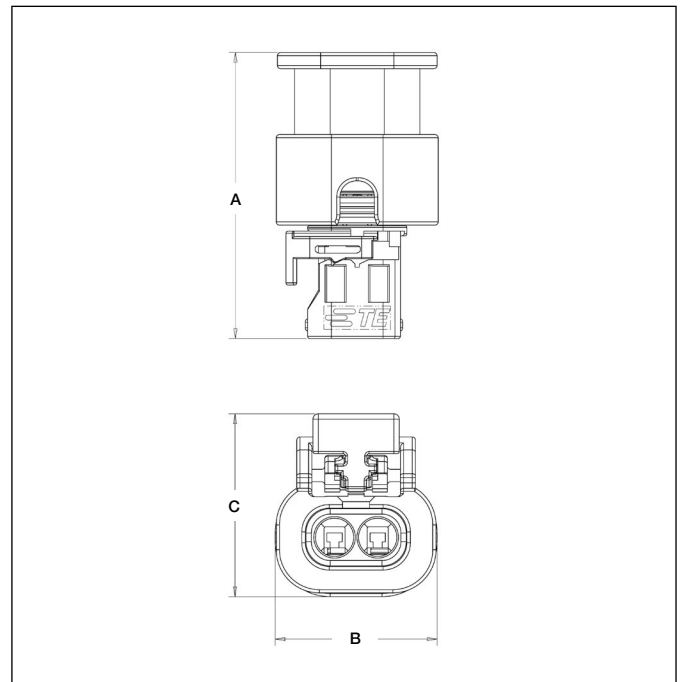
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Total Temperature Range:**  
150 °C

**Product Specification:**  
108-18969-3

**Application Specification:**  
114-18861

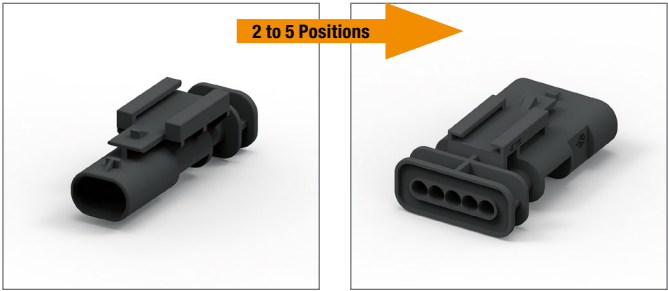
**Extraction Tool:**  
5-1579007-3



#### Sealed MCON 1.2 Gen2 Receptacle Housing for Locking Lance Contacts

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° Turned Outer Housing | Part Number | A    | Dimensions (mm)<br>B | C    | Mating Tab Housing |
|------------------|----------------|---------------|--------------|---------------------------|-------------|------|----------------------|------|--------------------|
| 2                | A              | Black         | Yes          | Yes                       | 1-2236896-3 | 26.5 | 14.8                 | 14.8 | N/A                |
|                  |                |               | Yes          |                           | 1-2236896-5 |      |                      |      | 1-2236952-5        |
|                  |                |               | No           |                           | 1-2236896-1 |      |                      |      | 1-2236952-5        |
|                  | B              | Natural       | Yes          |                           | 2-2236896-5 |      |                      |      | 2-2236952-5        |
|                  |                |               | No           |                           | 2-2236896-1 |      |                      |      | 2-2236952-5        |
|                  |                |               | Yes          |                           | 3-2236896-5 |      |                      |      | N/A                |
|                  | C              | Blue          | No           |                           | 3-2236896-1 |      |                      |      | N/A                |
|                  |                |               | Yes          |                           | 4-2236896-5 |      |                      |      | N/A                |
|                  |                |               | Yes          |                           | 5-2236896-5 |      |                      |      | N/A                |
|                  | D              | Violet        | Yes          |                           | 6-2236896-5 |      |                      |      | N/A                |
|                  |                |               | Yes          |                           | 6-2236896-5 |      |                      |      | N/A                |
| 3                | A              | Black         | Yes          |                           | 1-2236343-5 | 26.5 | 19                   | 14.8 | 1-2236953-5        |
|                  |                |               | No           |                           | 1-2236343-1 |      |                      |      | 1-2236953-5        |
|                  | B              | Natural       | Yes          |                           | 2-2236343-5 |      |                      |      | 2-2236953-5        |
|                  |                |               | No           |                           | 2-2236343-1 |      |                      |      | 2-2236953-5        |
|                  | D              | Violet        | Yes          |                           | 4-2236343-5 |      |                      |      | N/A                |
|                  |                |               | No           |                           | 4-2236343-1 |      |                      |      | N/A                |
|                  | A              | Black         | Yes          |                           | 1-2294256-5 |      |                      |      | N/A                |
|                  |                |               | No           |                           | 1-2294256-1 |      |                      |      | N/A                |
| 4                | B              | Natural       | Yes          |                           | 2-2294256-5 | 26.5 | 24.2                 | 16.5 | N/A                |
|                  |                |               | No           |                           | 2-2294256-1 |      |                      |      | N/A                |
|                  | A              | Black         | Yes          |                           | 1-2236898-5 |      |                      |      | 1-2236954-5        |
|                  |                |               | No           |                           | 1-2236898-1 |      |                      |      | 1-2236954-1        |
| 5                | B              | Natural       | Yes          |                           | 2-2236898-5 | 26.5 | 28.7                 | 16.5 | 2-2236954-5        |
|                  |                |               | No           |                           | 2-2236898-1 |      |                      |      | 2-2236954-1        |
|                  | A              | Black         | Yes          |                           | 1-2294261-5 |      |                      |      | N/A                |
|                  |                |               | No           |                           | 1-2294261-1 |      |                      |      | N/A                |
| 6                | B              | Natural       | Yes          |                           | 2-2294261-5 | 26.5 | 32.2                 | 16.5 | N/A                |
|                  |                |               | No           |                           | 2-2294261-1 |      |                      |      | N/A                |
|                  | A              | Black         | Yes          |                           | 1-2294261-5 |      |                      |      | N/A                |
|                  |                |               | No           |                           | 1-2294261-1 |      |                      |      | N/A                |

Sealed MCON 1.2 Gen2 Tab Housing for Locking Lance Contacts – up to 150 °C



Technical Features

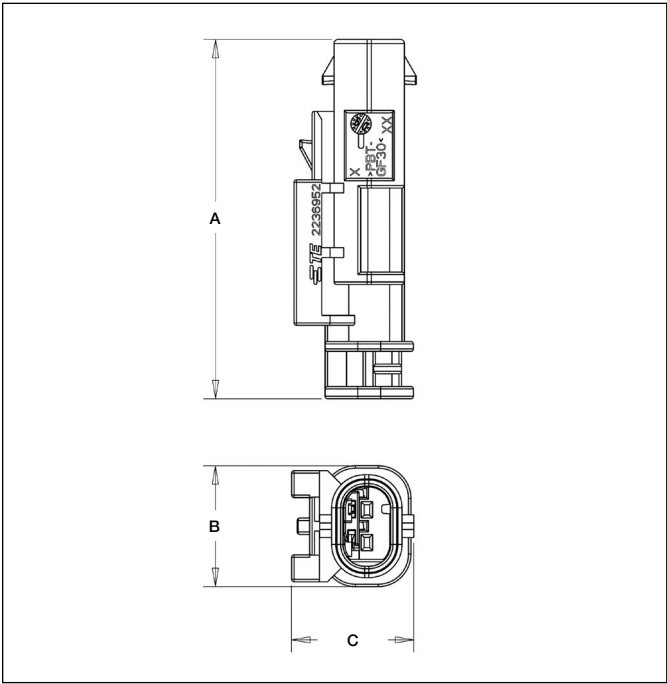
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Total Temperature Range:**  
150 °C

**Product Specification:**  
N/A

**Application Specification:**  
114-18861

**Extraction Tool:**  
5-1579007-3



Sealed MCON 1.2 Gen2 Tab Housing for Locking Lance Contacts

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |       | Mating Rec Housing         |
|------------------|----------------|---------------|-------------|-----------------|------|-------|----------------------------|
|                  |                |               |             | A               | B    | C     |                            |
| 2                | A              | Black         | 1-2236952-5 | 44              | 14.8 | 14.95 | 1-2236896-5 or 1-2236896-1 |
|                  | B              |               | 2-2236952-5 |                 |      |       | 2-2236896-5 or 2-2236896-1 |
| 3                | A              | Black         | 1-2236953-5 | 44              | 18.8 | 14.95 | 1-2236343-5 or 1-2236343-1 |
|                  | B              |               | 2-2236953-5 |                 |      |       | 2-2236343-5 or 2-2236343-1 |
| 5                | A              | Black         | 1-2236954-5 | 44              | 28.2 | 16.3  | 1-2236898-5 or 1-2236898-1 |
|                  | B              |               | 2-2236954-5 |                 |      |       | 2-2236898-5 or 2-2236898-1 |

Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 Row Design

Technical Features

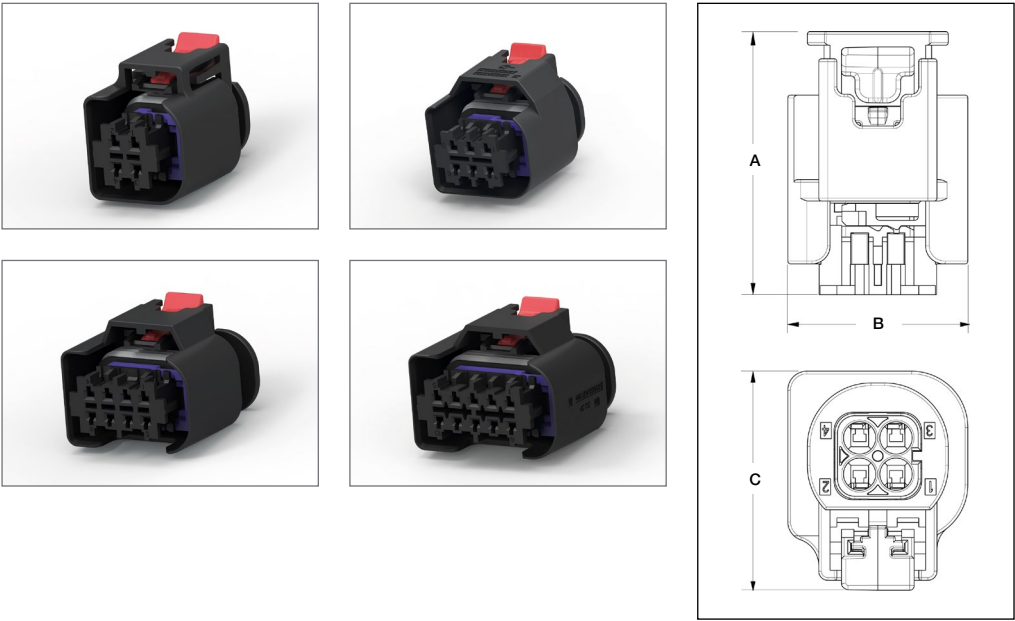
**Number of Positions:**  
4, 6, 8, 10

**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Temperature Range:**  
150 °C

**Product Specification:**  
108-94453

**Application Specification:**  
114-94327



Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 Row Design

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      |
|------------------|----------------|---------------|-------------|-----------------|------|------|
|                  |                |               |             | A               | B    | C    |
| 4                | A              | Black         | 1-2287960-5 | 29              | 19.8 | 24.5 |
| 6                |                |               | 1-2287965-5 |                 | 23.8 |      |
| 8                |                |               | 1-2287970-5 |                 | 27.8 |      |
| 10               |                |               | 1-2282337-5 |                 | 31.8 |      |

**HPF 1.2 Series - up to 150 °C**



**Technical Features**

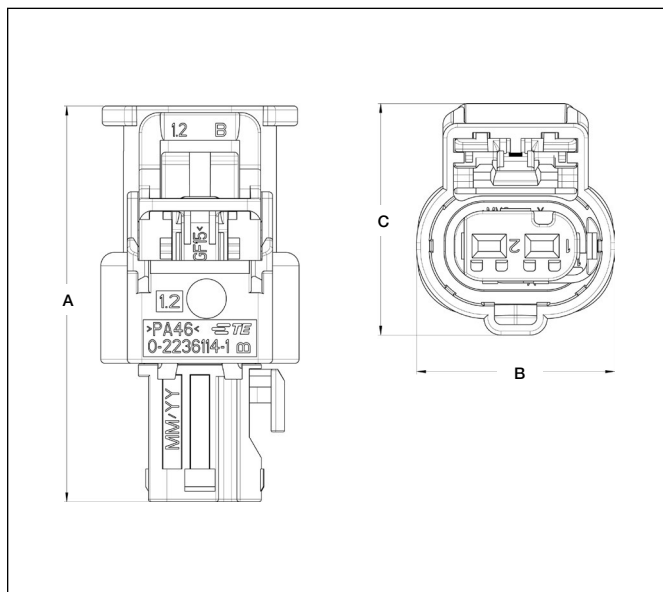
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Temperature Range:**  
150 °C

**Product Specification:**  
N/A

**Application Specification:**  
114-94415

**Extraction Tool:**  
3-1579018-4



**HPF 1.2 Series – Sealed, 2 Positions**

| No. of Positions | Keying Options | Housing Color | Vibration Level | Part Number | Dimensions (mm) |    |       | Used for |
|------------------|----------------|---------------|-----------------|-------------|-----------------|----|-------|----------|
|                  |                |               |                 |             | A               | B  | C     |          |
| 2                | A              | Black         | V6              | 5-2297795-1 | 30              | 15 | 16.05 | HPF 1.2  |
|                  | B              | Brown         |                 | 5-2297795-2 |                 |    |       |          |
|                  | C              | Blue          |                 | 5-2297795-3 |                 |    |       |          |



**Technical Features**

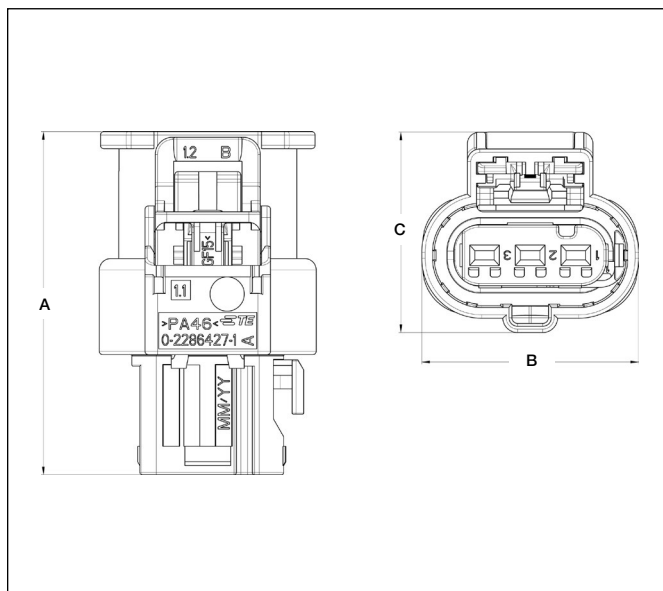
**Wire Size Range:**  
max. 1.0 mm<sup>2</sup>

**Temperature Range:**  
150 °C

**Product Specification:**  
N/A

**Application Specification:**  
114-94415

**Extraction Tool:**  
3-1579018-4



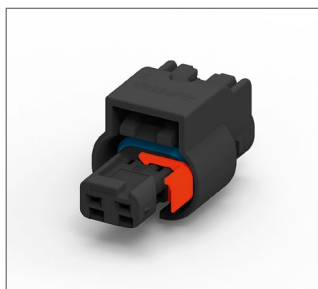
**HPF 1.2 Series – Sealed, 3 Positions**

| No. of Positions | Keying Options | Housing Color | Vibration Level | Part Number | Dimensions (mm) |    |       | Used for |
|------------------|----------------|---------------|-----------------|-------------|-----------------|----|-------|----------|
|                  |                |               |                 |             | A               | B  | C     |          |
| 3                | A              | black         | V6              | 5-2297811-1 | 30              | 19 | 16.05 | HPF 1.2  |
|                  | B              | brown         |                 | 5-2297811-2 |                 |    |       |          |
|                  | C              | blue          |                 | 5-2297811-3 |                 |    |       |          |

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts – up to 125 °C



#### Technical Features

##### Wire Size Range:

max. 1.0 mm<sup>2</sup> (20 –16 AWG)

##### Total Temperature Range:

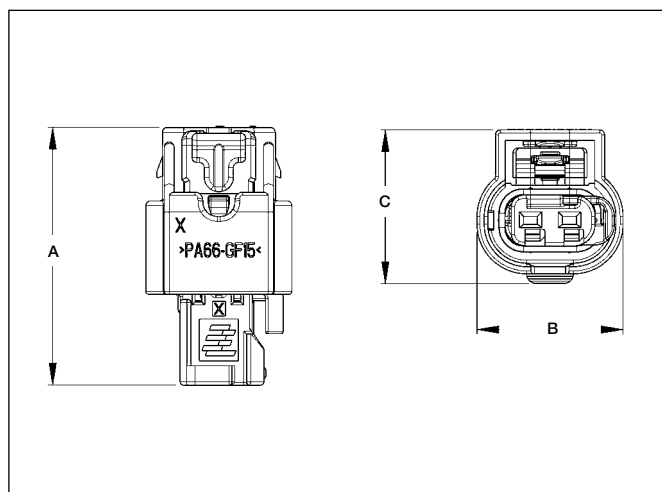
125 °C

##### Product Specification:

N/A

##### Application Specification:

408-8928



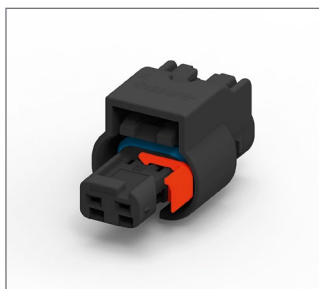
#### Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | Dimensions (mm) |      |      |
|------------------|----------------|---------------|--------------|-------------|-----------------|------|------|
|                  |                |               |              |             | A               | B    | C    |
| 2                | A              | Black         | No           | 1-1924067-1 | 26.5            | 15   | 15.8 |
|                  |                |               | Yes / Violet | 1-1924067-9 |                 |      |      |
|                  |                |               | Yes / Red    | 4-1924067-1 |                 |      |      |
|                  | B              | Natural       | No           | 1-1924067-2 |                 |      |      |
|                  |                |               | Yes / Violet | 2-1924067-0 |                 |      |      |
|                  |                |               | Yes / Red    | 4-1924067-2 |                 |      |      |
|                  | C              | Blue          | No           | 1-1924067-3 |                 |      |      |
|                  |                |               | Yes / Violet | 2-1924067-1 |                 |      |      |
|                  |                |               | Yes / Red    | 4-1924067-3 |                 |      |      |
| 3                | A              | Black         | No           | 1488991-1   | 26.5            | 19   | 15.8 |
|                  |                |               | Yes          | 4-1488991-1 |                 |      |      |
|                  | B              | Natural       | No           | 1488991-2   |                 |      |      |
|                  |                |               | Yes          | 4-1488991-2 |                 |      |      |
|                  | C              | Blue          | No           | 1488991-3   |                 |      |      |
|                  |                |               | Yes          | 4-1488991-3 |                 |      |      |
|                  | D              | Gray          | No           | 1488991-4   |                 |      |      |
|                  |                |               | Yes          | 4-1488991-4 |                 |      |      |
| 6                | A              | Black         | No           | 1924292-1   | 26.5            | 32.7 | 17.5 |
|                  |                |               | Yes          | 4-1924292-1 |                 |      |      |
|                  | B              | Natural       | No           | 1924292-2   |                 |      |      |
|                  |                |               | Yes          | 4-1924292-2 |                 |      |      |
|                  | C              | Blue          | No           | 1924292-3   |                 |      |      |
|                  |                |               | Yes          | 4-1924292-3 |                 |      |      |
|                  | D              | Gray          | No           | 1924292-4   |                 |      |      |
|                  |                |               | Yes          | 4-1924292-4 |                 |      |      |

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts – up to 150 °C



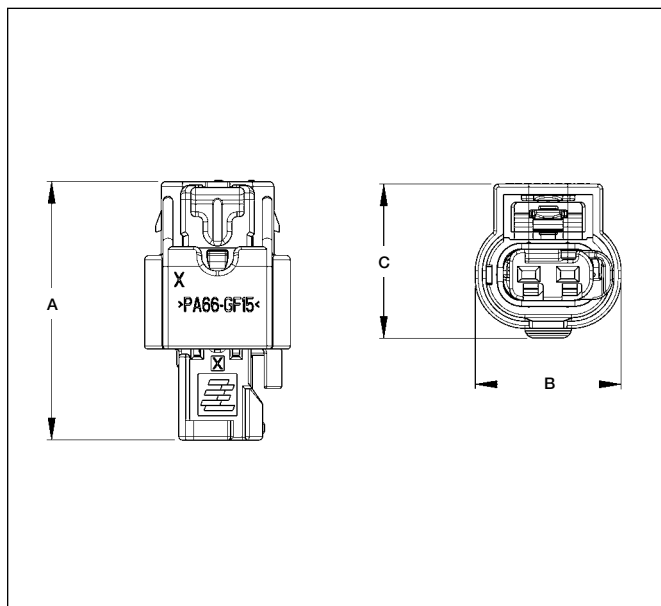
#### Technical Features

**Wire Size Range:**  
max. 1.0 mm<sup>2</sup> (20–16 AWG)

**Total Temperature Range:**  
150 °C

**Product Specification:**  
N/A

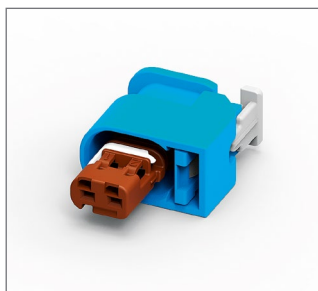
**Application Specification:**  
408-8928



#### Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | A    | Dimensions (mm) |      |
|------------------|----------------|---------------|--------------|-------------|------|-----------------|------|
|                  |                |               |              |             |      | B               | C    |
| 2                | A              | Brown         | No           | 2098557-1   | 26.5 | 15              | 15.8 |
|                  |                |               | Yes          | 4-2098557-1 |      |                 |      |
|                  | B              |               | No           | 2098557-2   |      |                 |      |
|                  |                |               | Yes          | 4-2098557-2 |      |                 |      |
|                  | C              |               | No           | 2098557-3   |      |                 |      |
|                  |                |               | Yes          | 4-2098557-3 |      |                 |      |
| 3                | A              | Brown         | No           | 2098541-1   | 26.5 | 19              | 15.6 |
|                  |                |               | Yes          | 4-2098541-1 |      |                 |      |
|                  | B              |               | No           | 2098541-2   |      |                 |      |
|                  |                |               | No           | 4-2098541-2 |      |                 |      |
|                  | C              |               | No           | 2098541-3   |      |                 |      |
|                  |                |               | Yes          | 4-2098541-3 |      |                 |      |
|                  | D              |               | No           | 2098541-4   |      |                 |      |
|                  |                |               | Yes          | 4-2098541-4 |      |                 |      |
| 4                | A              | Black         | No           | 1-1456426-1 | 26.5 | 24.7            | 16.1 |
|                  |                |               | Yes          | 4-1456426-1 |      |                 |      |
|                  | B              | Natural       | No           | 1-1456426-2 |      |                 |      |
|                  |                |               | Yes          | 4-1456426-2 |      |                 |      |
|                  | C              | Blue          | No           | 1-1456426-3 |      |                 |      |
|                  |                |               | Yes          | 4-1456426-3 |      |                 |      |
|                  | D              | Gray          | No           | 1-1456426-4 |      |                 |      |
|                  |                |               | Yes          | 4-1456426-4 |      |                 |      |
| 6                | A              | Natural       | No           | 2098559-1   | 26.5 | 32.7            | 17.5 |
|                  |                |               | Yes          | 4-2098559-1 |      |                 |      |
|                  | B              |               | No           | 2098559-2   |      |                 |      |
|                  |                |               | Yes          | 4-2098559-2 |      |                 |      |
|                  | C              |               | No           | 2098559-3   |      |                 |      |
|                  |                |               | Yes          | 4-2098559-3 |      |                 |      |
|                  | D              |               | No           | 2098559-4   |      |                 |      |
|                  |                |               | Yes          | 4-2098559-4 |      |                 |      |

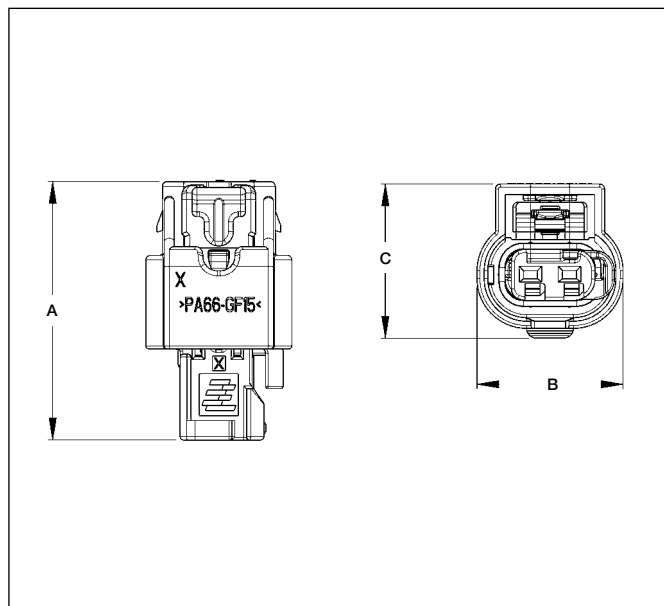
**Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts - Low Profile Sidelatch –up to 150 °C**



**Technical Features**

**Wire Size Range:**  
max. 1.0 mm<sup>2</sup> (20 – 16 AWG)  
**Total Temperature Range:**  
150 °C

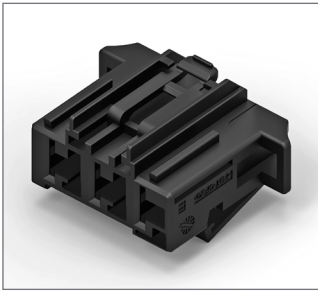
**Product Specification:**  
N/A  
**Application Specification:**  
408-8928



**Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts**

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° turned Outer Housing | Part Number | A    | Dimensions (mm)<br>B | C    |
|------------------|----------------|---------------|--------------|---------------------------|-------------|------|----------------------|------|
| 2                | A              | Brown         | No           | –                         | 2098641-1   | 26.5 | 19.9                 | 11.2 |
|                  | B              |               |              | –                         | 2098641-2   |      |                      |      |
|                  | C              |               |              | –                         | 2098641-3   |      |                      |      |
|                  | A              |               |              | Yes                       | 2098641-4   |      |                      |      |
|                  | A              |               | Yes          | Yes                       | 2098641-5   |      |                      |      |
|                  | A              |               |              | –                         | 2098641-6   |      |                      |      |
|                  | B              |               |              | –                         | 2098641-7   |      |                      |      |
|                  | C              |               |              | –                         | 2098641-8   |      |                      |      |

3 Positions MCON 6.3 Housing



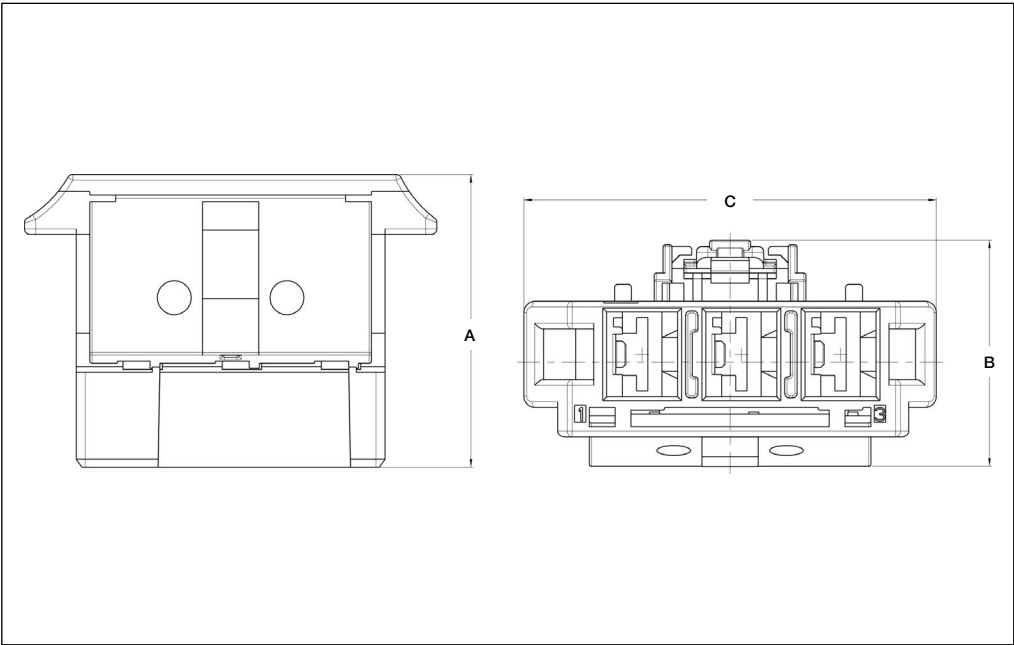
Technical Features

**No. of Positions:**  
3

**Wire Size Range:**  
2.5-6 mm<sup>2</sup>

**Product Specification:**  
N/A

**Application Specification:**  
114-94372



3 Positions MCON 6.3 Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |    |      |
|------------------|----------------|---------------|-------------|-----------------|----|------|
|                  |                |               |             | A               | B  | C    |
| 3                | A              | Black         | 2282442-1   | 25.9            | 17 | 36.6 |
|                  | B              | Gray          | 2282442-2   |                 |    |      |

### 32 Positions Mixed Housing



#### Technical Features

**No. of Positions:**

32

**Wire Size Range:**

0.25 – 6.0 mm<sup>2</sup>

**Product Specification:**

108-20329

**Application Specification:**

411-20134

**Used Terminals Systems:**

MCON 1.2

MCON 2.8

AMP MCP 6.3

**Extraction Tool:**

MCON 1.2

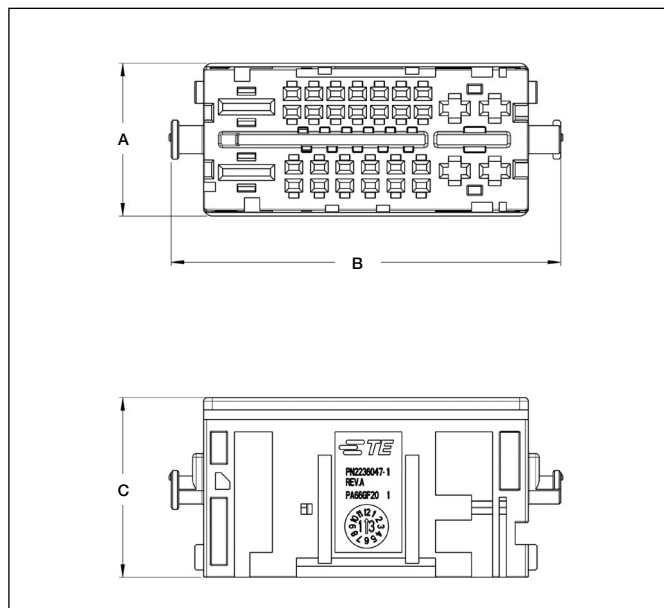
5-1579007-3

MCON 2.8

5-1579008-2

AMP MCP 6.3

1-1579007-3



### 32 Positions Mixed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |    | Required Secondary Lock | Mating Tab Housing       |
|------------------|----------------|---------------|-------------|-----------------|------|----|-------------------------|--------------------------|
|                  |                |               |             | A               | B    | C  |                         |                          |
| 32               | A              | Black         | 2236047-1   | 24.7            | 54.1 | 21 | 2236048-1               | 2236046-7 or 1-2236046-0 |
|                  | B              | Gray          | 2236047-2   |                 |      |    |                         | 2236046-8 or 1-2236046-1 |



#### Technical Features

**No. of Positions:**

32

**Wire Size Range:**

0.25 – 6.0 mm<sup>2</sup>

**Product Specification:**

108-20329

**Application Specification:**

411-20134

**Used Terminals Systems:**

MCON 1.2 Tab

Tab 2.8 x 0.8

Tab 5.8 x 0.8

**Extraction Tool:**

MCON 1.2

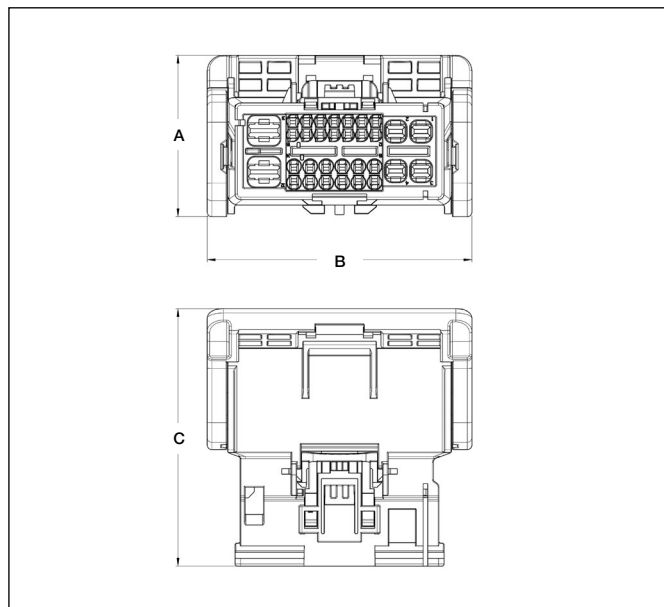
5-1579007-3

Tab 2.8

1-1579007-6

Tab 5.8

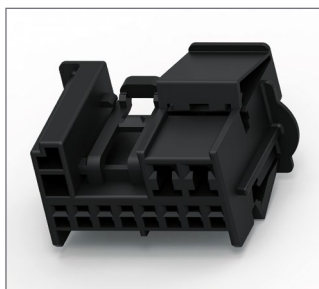
1-1579007-6



### 32 Positions Mixed Tab Housing

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | Dimensions (mm) |      |      | Required Secondary Lock | Mating Receptacle Housing |
|------------------|----------------|---------------|--------------|-------------|-----------------|------|------|-------------------------|---------------------------|
|                  |                |               |              |             | A               | B    | C    |                         |                           |
| 32               | A              | Black         | –            | 2236046-7   | 56              | 57.5 | 35.1 | 2236048-1               | 2236047-1                 |
|                  |                |               | Yes          | 1-2236046-0 |                 |      |      |                         | 2236047-1                 |
|                  | B              | Grey          | –            | 2236046-8   |                 |      |      |                         | 2236047-2                 |
|                  |                |               | Yes          | 1-2236046-1 |                 |      |      |                         | 2236047-2                 |
|                  |                |               | –            | 2236046-8   |                 |      |      |                         | 2236047-2                 |
|                  |                |               | Yes          | 1-2236046-1 |                 |      |      |                         | 2236047-2                 |

### 10 Positions Mixed Housing



#### Technical Features

**Number of Positions:**

10

**Housing Material:**

PA66

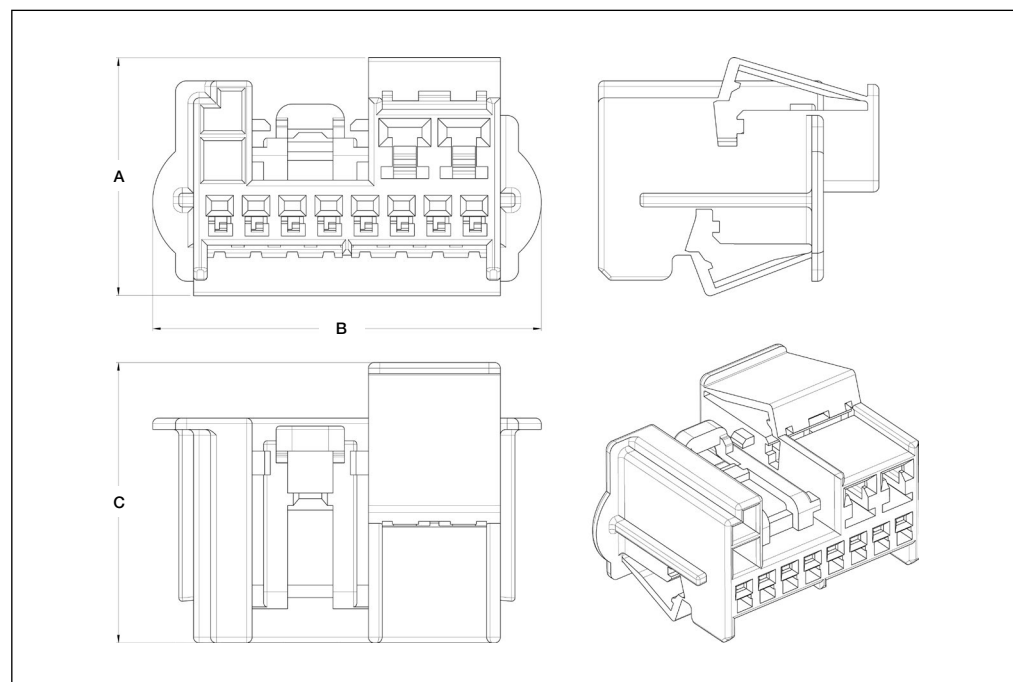
**Wire Size Range:**

0.25 – 4.00 mm<sup>2</sup>

**Used Terminal System:**

MCON 1.2

AMP MCP 2.8



### 10 Positions Mixed Housing

| No. of Positions | Keying Options | Housing Color | Part Number | A  | Dimensions (mm)<br>B | C    | Mating Tab Housing |
|------------------|----------------|---------------|-------------|----|----------------------|------|--------------------|
| 10               | A              | Black         | 1703410-1   | 21 | 34.2                 | 24.7 | 1703411-1          |

### 10 Positions Mixed Receptacle Housing



#### Technical Features

**Number of Positions:**

10

**Housing Material:**

PA66

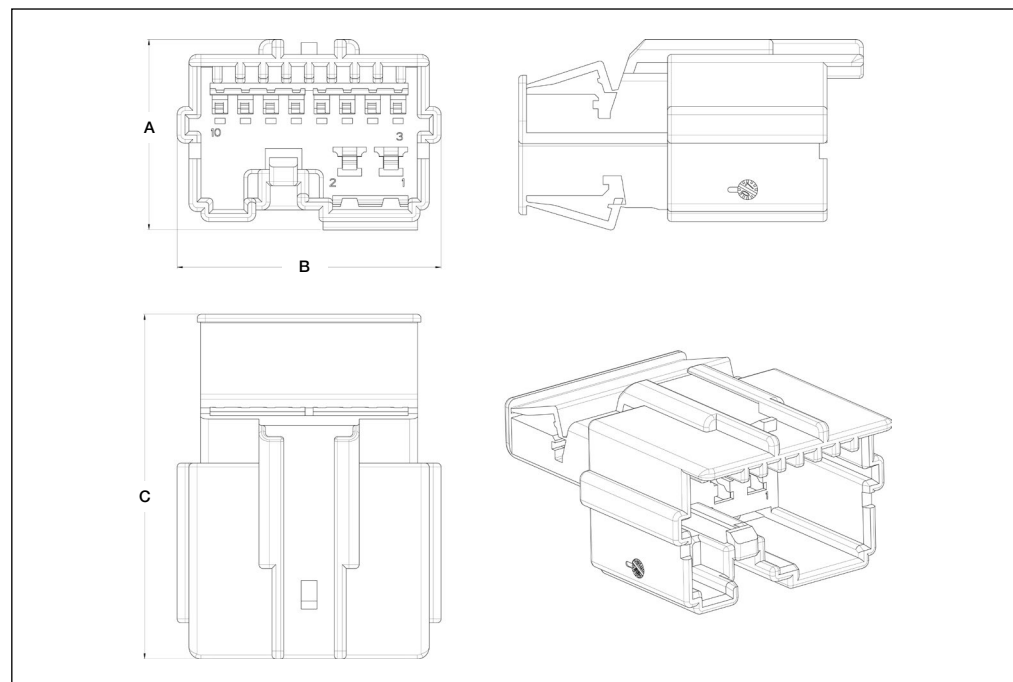
**Wire Size Range:**

0.25 – 4.00 mm<sup>2</sup>

**Used Terminal System:**

MCON 1.2 Tab

Tab 2.8 x 0.8



### 10 Positions Mixed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | Part Number | A     | Dimensions (mm)<br>B | C     | Mating Tab Housing |
|------------------|----------------|---------------|-------------|-------|----------------------|-------|--------------------|
| 10               | A              | Black         | 1703411-1   | 23.95 | 33.2                 | 43.35 | 1703410-1          |

### 10 Positions Mixed Receptacle Housing



#### Technical Features

**Number of Positions:**

10

**Housing Material:**

PA66

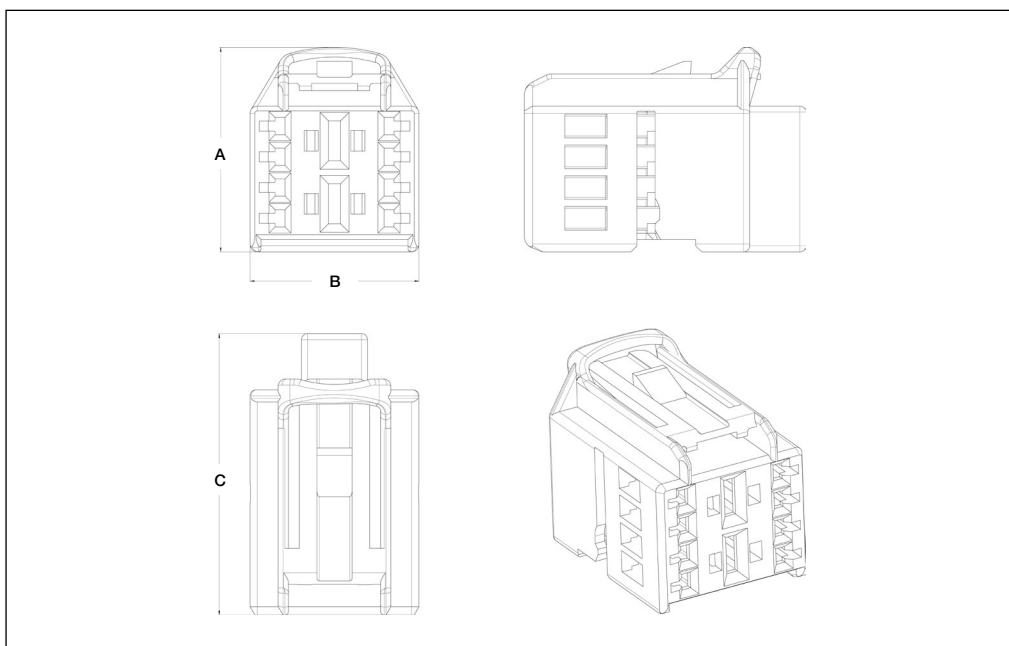
**Wire Size Range:**

0.25 – 4.00 mm<sup>2</sup>

**Used Terminal System:**

MCON 1.2

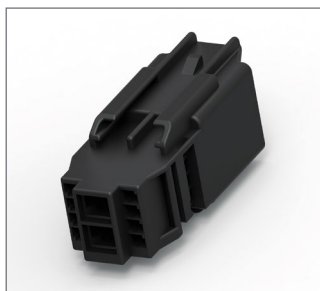
AMP MCP 2.8



### 10 Positions Mixed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |       |       | Required Secondary Lock | Mating Tab Housing |
|------------------|----------------|---------------|-------------|-----------------|-------|-------|-------------------------|--------------------|
|                  |                |               |             | A               | B     | C     |                         |                    |
| 10               | A              | Black         | 1563123-1   | 16.7            | 13.95 | 23.25 | 1563124-1               | 1563125-1          |

### 10 Positions Mixed Receptacle Housing



#### Technical Features

**Number of Positions:**

10

**Housing Material:**

PA66

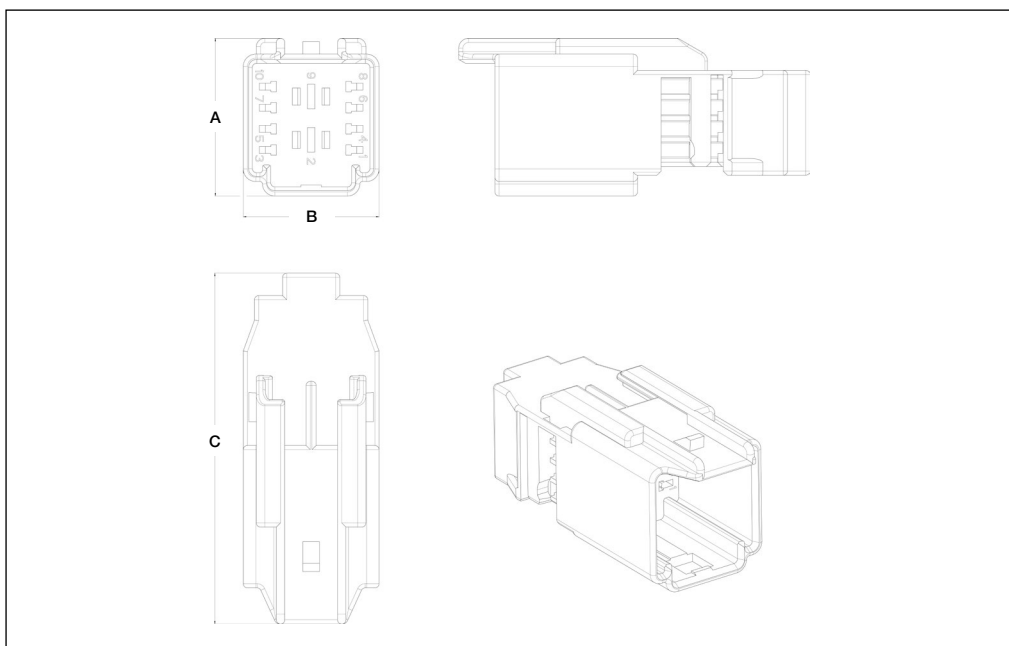
**Wire Size Range:**

0.25 – 4.00 mm<sup>2</sup>

**Used Terminal System:**

MCON 1.2 Tab

Tab 2.8 x 0.8



### 10 Positions Mixed Tab Housing

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | Dimensions (mm) |      |       | Required Secondary Lock | Mating Tab Housing |
|------------------|----------------|---------------|--------------|-------------|-----------------|------|-------|-------------------------|--------------------|
|                  |                |               |              |             | A               | B    | C     |                         |                    |
| 10               | A              | Black         | No           | 1563125-1   | 10.95           | 16.3 | 42.15 | 1563126-1               | 1563123-1          |

## MCON Interconnection System

### Housings and Connectors

#### 10 Positions Sealed Wire-to-Wire or Bulkhead Housing

##### Technical Features

**No. of Positions:**  
10

**Wire Size Range:**  
0.35 – 1.5 mm<sup>2</sup>

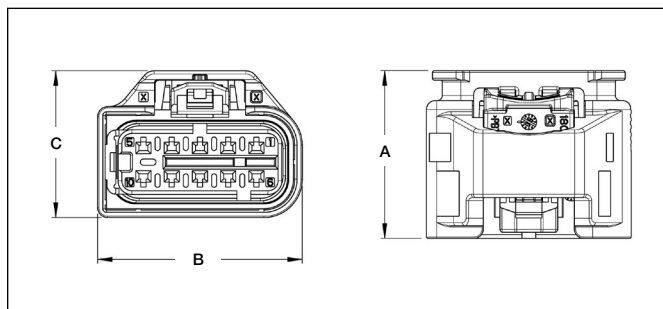
**Product Specification:**  
108-15398

**Application Specification:**  
411-15748

**Extraction Tool:**  
5-1579007-3  
8-1579018-4

**Insertion Tool:**  
5-1579018-6  
8-1579018-6

**Locking Tool:**  
8-1579018-5 or  
9-1579018-6



#### 10 Positions MCON 1.2 Sealed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|-------------|-----------------|------|------|--------------------|
|                  |                |               |             | A               | B    | C    |                    |
| 10               | A              | Black         | 1801600-1   | 26.7            | 32.6 | 23.3 | 1801606-1          |
|                  | B              | Grey          | 1801600-2   |                 |      |      | 1801606-2          |
|                  | C              | Blue          | 1801600-3   |                 |      |      | 1801606-3          |
|                  | D              | Green         | 1801600-4   |                 |      |      | 1801606-4          |
|                  | E              | Red           | 1801600-5   |                 |      |      | 1801606-5          |

##### Technical Features

**No. of Positions:**  
10

**Wire Size Range:**  
0.35 – 1.5 mm<sup>2</sup>

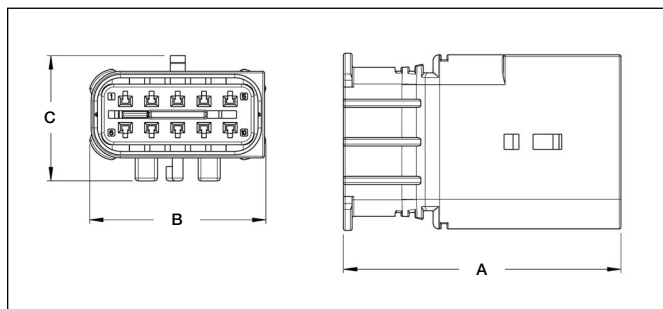
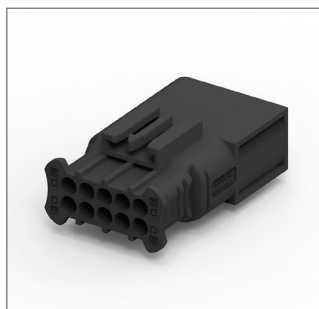
**Product Specification:**  
108-15398

**Application Specification:**  
411-15748

**Extraction Tool:**  
5-1579007-3  
8-1579018-4

**Insertion Tool:**  
5-1579018-6  
8-1579018-6

**Locking Tool:**  
8-1579018-5 or  
9-1579018-6



#### 10 Positions MCON 1.2 Sealed Tab Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|-------------|-----------------|------|------|--------------------|
|                  |                |               |             | A               | B    | C    |                    |
| 10               | A              | Black         | 1801606-1   | 47.7            | 30.3 | 21.5 | 1801600-1          |
|                  | B              | Grey          | 1801606-2   |                 |      |      | 1801600-2          |
|                  | C              | Blue          | 1801606-3   |                 |      |      | 1801600-3          |
|                  | D              | Green         | 1801606-4   |                 |      |      | 1801600-4          |
|                  | E              | Red           | 1801606-5   |                 |      |      | 1801600-5          |

##### Technical Features

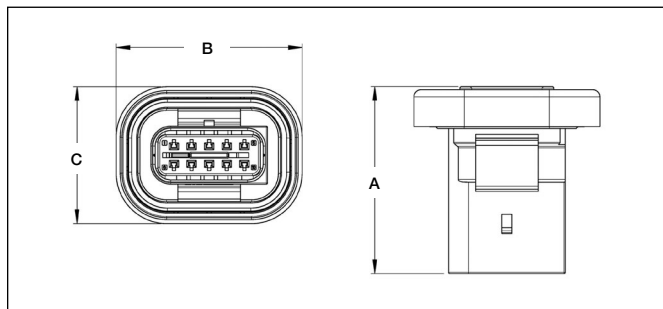
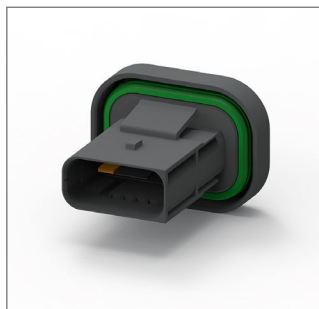
**No. of Positions:**  
10

**Wire Size Range:**  
0.35 – 1.5 mm<sup>2</sup>

**Product Specification:**  
108-15405

**Application Specification:**  
N/A

**Extraction Tool:**  
5-1579007-3



#### 10 Positions MCON 1.2 Bulkhead

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      | Mating Rec Housing |
|------------------|----------------|---------------|-------------|-----------------|------|------|--------------------|
|                  |                |               |             | A               | B    | C    |                    |
| 10               | A              | Black         | 1801610-1   | 47.7            | 47.5 | 34.9 | 1801600-1          |
|                  | B              | Grey          | 1801610-2   |                 |      |      | 1801600-2          |

## MCON Interconnection System Housings and Connectors

### 16 Position MCON 1.2 and MCON 2.8 Mixed Wire-to-wire Connector

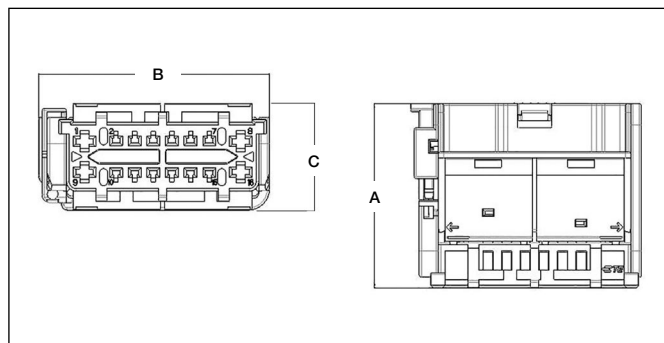
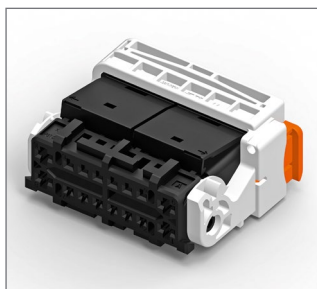
#### Technical Features

**No. of Positions:**  
16

**Wire Size Range 1.2 mm:**  
0.35-4.0 mm<sup>2</sup>

**Product Specification:**  
108-15428

**Application Specification:**  
N//A



### 16 position MCON 1.2 and MCON 2.8 Mixed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | CPA Yes/No | Part Number  | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|------------|--------------|-----------------|------|------|--------------------|
|                  |                |               |            |              | A               | B    | C    |                    |
| 16               | A              | Black         | Yes        | 1-1801756-1* | 34.5            | 43.3 | 19.9 | x-1801760-1        |
|                  |                |               | No         | 1801756-1*   |                 |      |      |                    |
|                  | B              | Gray          | Yes        | 1-1801756-2* |                 |      |      | x-1801760-2        |
|                  |                |               | No         | 1801756-2*   |                 |      |      |                    |
|                  | C              | Blue          | Yes        | 1-1801756-3* |                 |      |      | x-1801760-3        |
|                  |                |               | No         | 1801756-3*   |                 |      |      |                    |
|                  | D              | Brown         | Yes        | 1-1801756-4* |                 |      |      | x-1801760-4        |
|                  |                |               | No         | 1801756-4*   |                 |      |      |                    |
|                  | E              | Purple        | Yes        | 1-1801756-5* |                 |      |      | x-1801760-5        |
|                  |                |               | No         | 1801756-5*   |                 |      |      |                    |

\*) On request

### 16 Position MCON 1.2 and MCON 2.8 Mixed Tab Housing

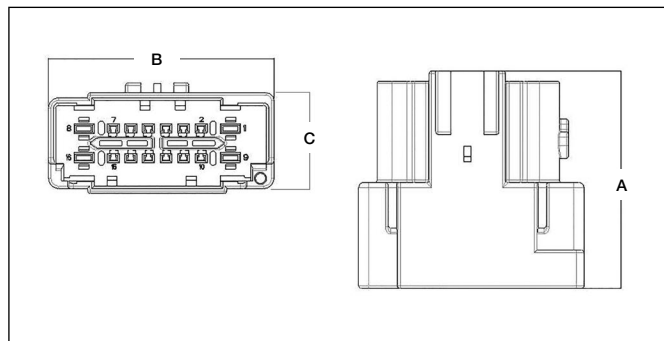
#### Technical Features

**No. of Positions:**  
16

**Wire Size Range 1.2 mm:**  
0.35-4.0 mm<sup>2</sup>

**Product Specification:**  
108-15428

**Application Specification:**  
N//A



### 16 position MCON 1.2 and MCON 2.8 Mixed Tab Housing

| No. of Positions | Keying Options | Housing Color | CPA Yes/No | Part Number  | Dimensions (mm) |      |    | Mating Tab Housing |
|------------------|----------------|---------------|------------|--------------|-----------------|------|----|--------------------|
|                  |                |               |            |              | A               | B    | C  |                    |
| 16               | A              | Black         | Yes        | 1-1801760-1* | 43.2            | 44.9 | 22 | x-1801756-1        |
|                  |                |               | No         | 1-1801760-1* |                 |      |    |                    |
|                  | B              | Gray          | Yes        | 1-1801760-2* |                 |      |    | x-1801756-2        |
|                  |                |               | No         | 1-1801760-2* |                 |      |    |                    |
|                  | C              | Blue          | Yes        | 1-1801760-3* |                 |      |    | x-1801756-3        |
|                  |                |               | No         | 1-1801760-3* |                 |      |    |                    |
|                  | D              | Brown         | Yes        | 1-1801760-4* |                 |      |    | x-1801756-4        |
|                  |                |               | No         | 1-1801760-4* |                 |      |    |                    |
|                  | E              | Purple        | Yes        | 1-1801760-5* |                 |      |    | x-1801756-5        |
|                  |                |               | No         | 1-1801760-5* |                 |      |    |                    |

\*) On request

## MCON Interconnection System

### Housings and Connectors

#### 18 Positions MCON 1.2 + 2.8 Mixed Wire-to wire Connector

##### Technical Features

**No. of Positions:**  
18

**Wire Size Range:**  
0.35 – 4.0 mm<sup>2</sup>

**Product Specification:**  
108-15431

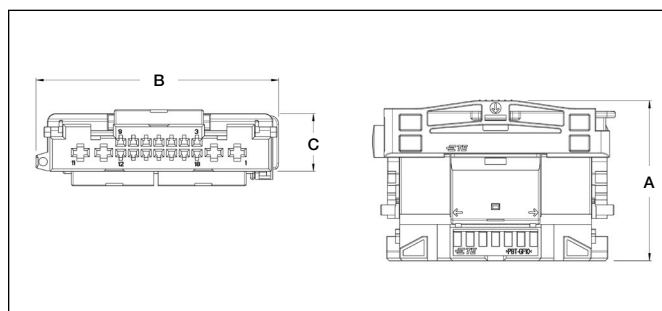
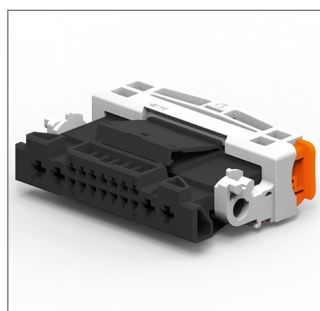
**Application Specification:**  
408-15014

**Extraction Tool:**

5-1579007-3

5-1579008-2

8-1579018-4



#### 18 Positions MCON 1.2 + 2.8 Mixed Receptacle Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|-------------|-----------------|------|------|--------------------|
|                  |                |               |             | A               | B    | C    |                    |
| 18               | A              | Black         | 1801735-1   | 37.5            | 57.2 | 17.8 | 1801739-1          |
|                  | B              | Gray          | 1801735-2   |                 |      |      | 1801739-2          |
|                  | C              | Blue          | 1801735-3   |                 |      |      | 1801739-3          |
|                  | D              | Brown         | 1801735-4   |                 |      |      | 1801739-4          |
|                  | E              | Purple        | 1801735-5   |                 |      |      | 1801739-5          |

##### Technical Features

**No. of Positions:**  
18

**Wire Size Range:**  
0.35 – 4.0 mm<sup>2</sup>

**Product Specification:**  
108-15431

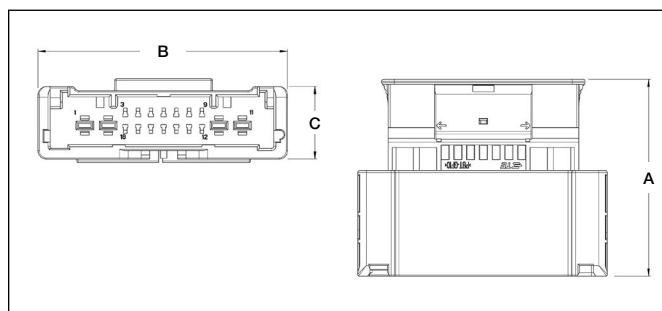
**Application Specification:**  
408-15014

**Extraction Tool:**

5-1579007-3

1-1579007-6

8-1579018-4



#### 18 Positions MCON 1.2 + 2.8 Mixed Tab Housing

| No. of Positions | Keying Options | Housing Color | Part Number | Dimensions (mm) |      |      | Mating Receptacle Housing |
|------------------|----------------|---------------|-------------|-----------------|------|------|---------------------------|
|                  |                |               |             | A               | B    | C    |                           |
| 18               | A              | Black         | 1801739-1   | 46.2            | 58.6 | 19.6 | 1801735-1                 |
|                  | B              | Gray          | 1801739-2   |                 |      |      | 1801735-2                 |
|                  | C              | Blue          | 1801739-3   |                 |      |      | 1801735-3                 |
|                  | D              | Brown         | 1801739-4   |                 |      |      | 1801735-4                 |
|                  | E              | Purple        | 1801739-5   |                 |      |      | 1801735-5                 |

Images representative of tool type only.



## APPLICATION TOOLING AND EQUIPMENT

FOR THE  
MCON Interconnection System

TE Application Tooling is dedicated to providing high quality equipment options to meet all levels of our connector products specifications. We are also able to provide a broad range of equipment for other manufacturer's products.

Our equipment range is vast and almost unmatched by others operating in the same industry segments, as is our global presence and support network in the form of field service engineers and product managers. We supply everything from simple hand tools to the most complex automated systems.

Equipment is segregated into two types and managed accordingly:

### Generic equipment

Where we can supply you with sufficient information referenced by Part Number such that you can identify and order what you need yourself.

### Specialised Equipment

Where you will need help from our specialist product managers to identify what's just right for your Application.

### Finding Equipment Online

[www.tooling.te.com](http://www.tooling.te.com)

- Powerful searches to find generic equipment options (Hand Tools / Applicators)
- Brochures and more detailed flyers for the specialised equipment.
- It's quick, easy and more importantly the latest and most up to date information is available online.

### Regional Assistance

[www.te.com/support-center](http://www.te.com/support-center)

**Numerical Index**

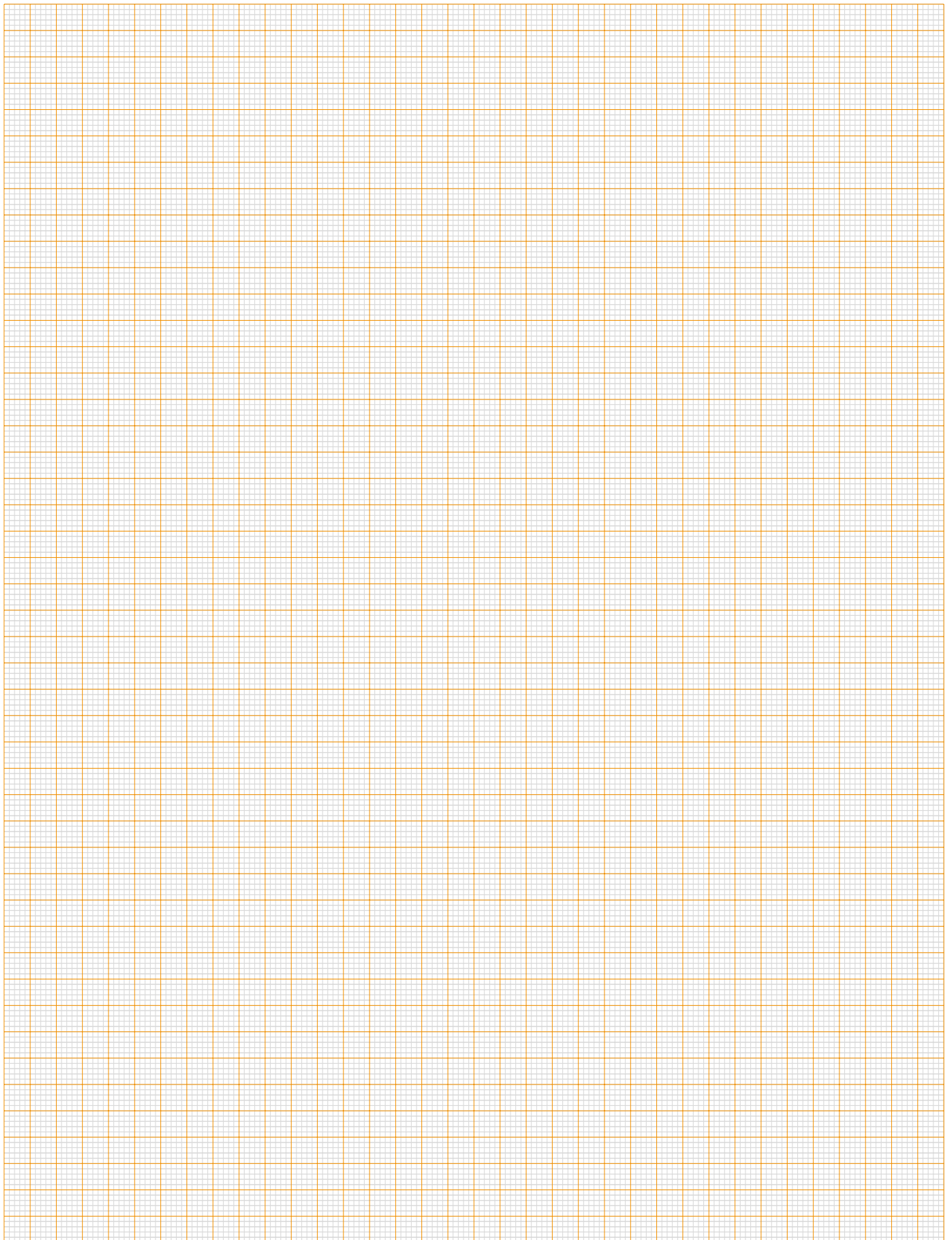
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| 1-1456426-1 | 24   | 1-2208762-3 | 10   | 1670144-2   | 5    |
| 1-1456426-2 | 24   | 1-2208763-3 | 10   | 1670144-3   | 5    |
| 1-1456426-3 | 24   | 1-2208764-3 | 10   | 1670146-1   | 5    |
| 1-1456426-4 | 24   | 1-2208765-3 | 10   | 1670146-2   | 5    |
| 1-1564559-1 | 18   | 1-2208766-3 | 10   | 1670146-3   | 5    |
| 1-1564559-2 | 18   | 1-2236046-0 | 27   | 1670802-1   | 8    |
| 1-1670915-1 | 16   | 1-2236046-1 | 27   | 1670802-3   | 8    |
| 1-1670916-1 | 16   | 1-2236343-1 | 19   | 1670804-1   | 8    |
| 1-1670918-1 | 17   | 1-2236343-5 | 19   | 1670804-3   | 8    |
| 1-1670919-1 | 17   | 1-2236896-1 | 19   | 1670806-1   | 8    |
| 1-1670920-1 | 17   | 1-2236896-3 | 19   | 1670806-3   | 8    |
| 1-1670921-1 | 17   | 1-2236896-5 | 19   | 1703410-1   | 28   |
| 1-1703494-1 | 18   | 1-2236898-1 | 19   | 1703411-1   | 28   |
| 1-1703494-2 | 18   | 1-2236898-5 | 19   | 1718348-1   | 6    |
| 1-1703498-1 | 18   | 1-2236952-5 | 20   | 1718348-2   | 6    |
| 1-1703498-2 | 18   | 1-2236953-5 | 20   | 1718348-3   | 6    |
| 1-1703498-3 | 18   | 1-2236954-5 | 20   | 1718350-1   | 6    |
| 1-1703506-1 | 18   | 1-2282337-5 | 21   | 1718350-2   | 6    |
| 1-1703506-2 | 18   | 1-2286471-1 | 17   | 1718350-3   | 6    |
| 1-1718643-1 | 16   | 1-2287960-5 | 21   | 1718475-1   | 8    |
| 1-1718643-4 | 16   | 1-2287965-5 | 21   | 1718475-3   | 8    |
| 1-1718645-1 | 17   | 1-2287970-5 | 21   | 1718758-1   | 4    |
| 1-1718646-1 | 17   | 1-2289107-1 | 17   | 1718758-2   | 4    |
| 1-1718806-1 | 17   | 1-2294256-1 | 19   | 1718758-3   | 4    |
| 1-1718888-1 | 16   | 1-2294256-5 | 19   | 1718760-1   | 4    |
| 1-1719393-1 | 17   | 1-2294261-1 | 19   | 1718760-2   | 4    |
| 1-1801756-1 | 31   | 1-2294261-5 | 19   | 1718760-3   | 4    |
| 1-1801756-2 | 31   | 1418844-1   | 5    | 1718762-1   | 4    |
| 1-1801756-3 | 31   | 1418844-2   | 5    | 1718762-2   | 4    |
| 1-1801756-4 | 31   | 1418844-3   | 5    | 1718762-3   | 4    |
| 1-1801756-5 | 31   | 1418850-1   | 5    | 1719836-1   | 8    |
| 1-1801760-1 | 31   | 1418850-2   | 5    | 1719836-3   | 8    |
| 1-1801760-2 | 31   | 1418850-3   | 5    | 1719838-1   | 8    |
| 1-1801760-3 | 31   | 1452503-1   | 5    | 1719838-3   | 8    |
| 1-1801760-4 | 31   | 1452503-2   | 5    | 1719840-1   | 8    |
| 1-1801760-5 | 31   | 1452503-3   | 5    | 1719840-3   | 8    |
| 1-1823032-1 | 11   | 1488991-1   | 23   | 1719972-1   | 12   |
| 1-1823032-3 | 11   | 1488991-2   | 23   | 1801600-1   | 30   |
| 1-1823034-1 | 11   | 1488991-3   | 23   | 1801600-2   | 30   |
| 1-1823034-3 | 11   | 1488991-4   | 23   | 1801600-3   | 30   |
| 1-1924067-1 | 23   | 1534594-1   | 5    | 1801600-4   | 30   |
| 1-1924067-2 | 23   | 1534594-2   | 5    | 1801600-5   | 30   |
| 1-1924067-3 | 23   | 1534594-3   | 5    | 1801606-1   | 30   |
| 1-1924067-9 | 23   | 1563123-1   | 29   | 1801606-2   | 30   |
| 1-2141324-1 | 18   | 1563125-1   | 29   | 1801606-3   | 30   |
| 1-2141324-2 | 18   | 1563719-1   | 8    | 1801606-4   | 30   |
| 1-2141520-1 | 18   | 1563719-3   | 8    | 1801606-5   | 30   |
| 1-2141520-2 | 18   | 1563935-1   | 8    | 1801610-1   | 30   |
| 1-2177255-1 | 17   | 1563935-3   | 8    | 1801610-2   | 30   |
| 1-2208762-3 | 10   | 1670144-1   | 5    | 1801735-1   | 32   |

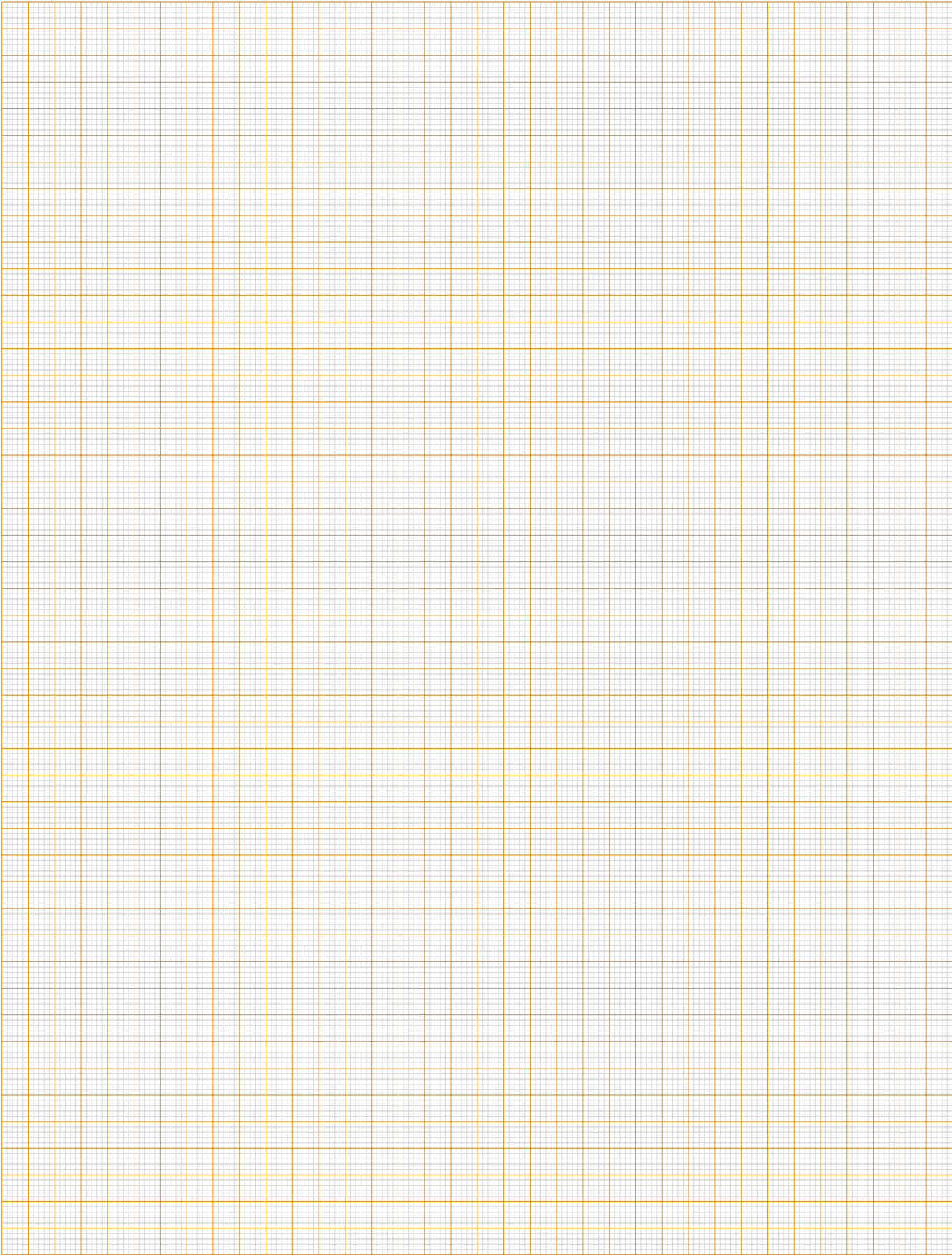
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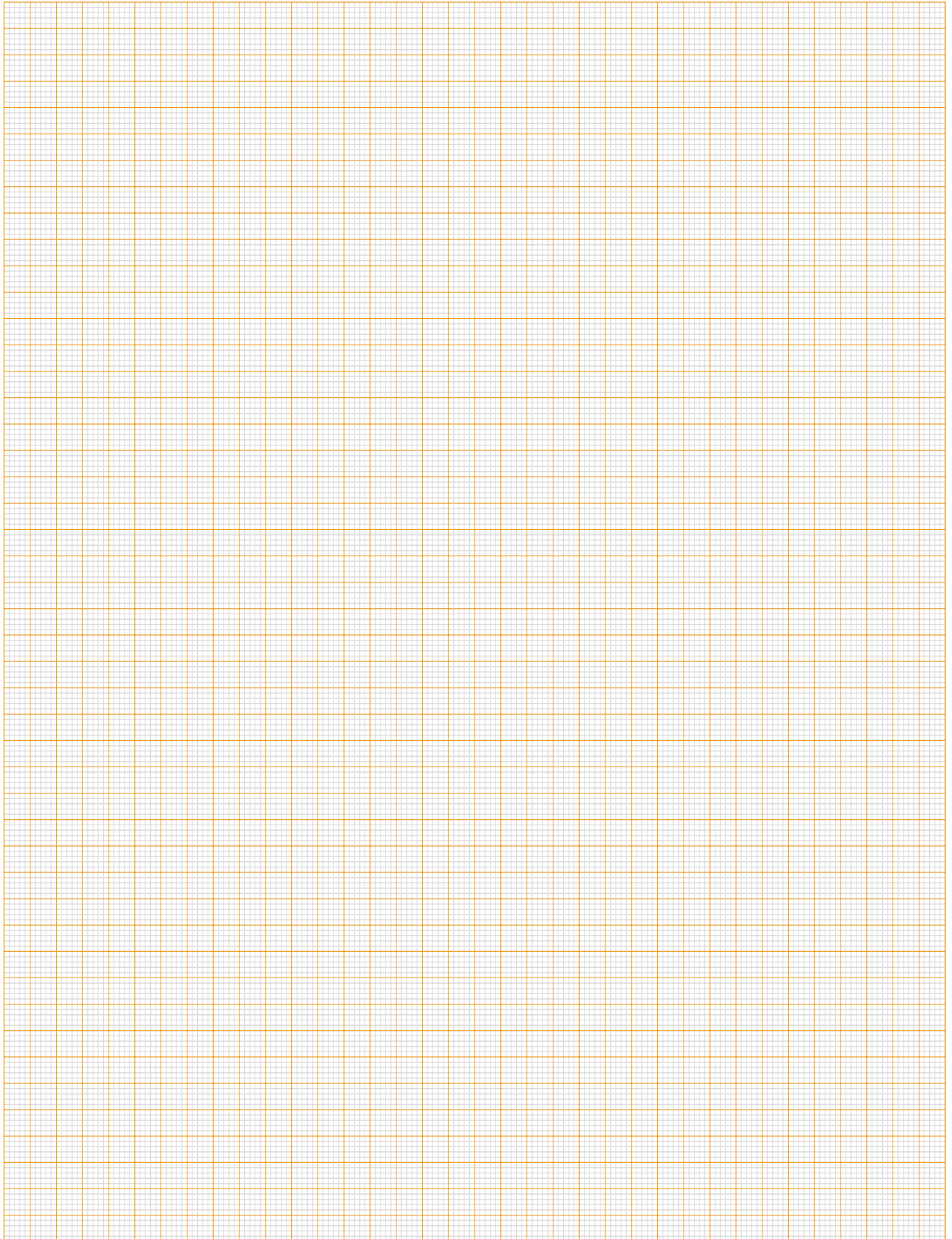
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|-------------|------|-------------|------|-------------|------|
| 1801735-2   | 32   | 2-2141324-2 | 18   | 2177771-3   | 9    |
| 1801735-3   | 32   | 2-2141520-1 | 18   | 2177908-1   | 2    |
| 1801735-4   | 32   | 2-2141520-2 | 18   | 2177908-3   | 2    |
| 1801735-5   | 32   | 2-2208762-3 | 10   | 2177909-1   | 2    |
| 1801739-1   | 32   | 2-2208762-3 | 10   | 2177909-3   | 2    |
| 1801739-2   | 32   | 2-2208763-3 | 10   | 2208360-3   | 7    |
| 1801756-1   | 31   | 2-2208763-3 | 10   | 2208362-3   | 7    |
| 1801756-2   | 31   | 2-2208764-3 | 10   | 2208363-3   | 7    |
| 1801756-3   | 31   | 2-2208764-3 | 10   | 2236046-7   | 27   |
| 1801756-4   | 31   | 2-2208765-3 | 10   | 2236046-8   | 27   |
| 1801756-5   | 31   | 2-2208766-3 | 10   | 2236047-1   | 27   |
| 1828904-2   | 12   | 2-2236343-1 | 19   | 2236047-2   | 27   |
| 1828905-1   | 12   | 2-2236343-5 | 19   | 2282442-1   | 26   |
| 1828922-1   | 12   | 2-2236896-1 | 19   | 2282442-2   | 26   |
| 1828985-1   | 12   | 2-2236896-5 | 19   | 2297816-1   | 12   |
| 1828986-1   | 12   | 2-2236898-1 | 19   | 2297817-1   | 12   |
| 1924292-1   | 23   | 2-2236898-5 | 19   | 2297818-1   | 12   |
| 1924292-2   | 23   | 2-2236952-5 | 20   | 2297819-1   | 12   |
| 1924292-3   | 23   | 2-2236953-5 | 20   | 2300588-1   | 12   |
| 1924292-4   | 23   | 2-2236954-5 | 20   | 2300588-2   | 12   |
| 1963142-1   | 12   | 2-2294256-1 | 19   | 2300588-3   | 12   |
| 1967056-1   | 12   | 2-2294256-5 | 19   | 2300588-4   | 12   |
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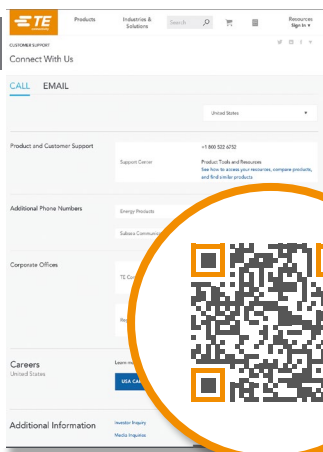
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