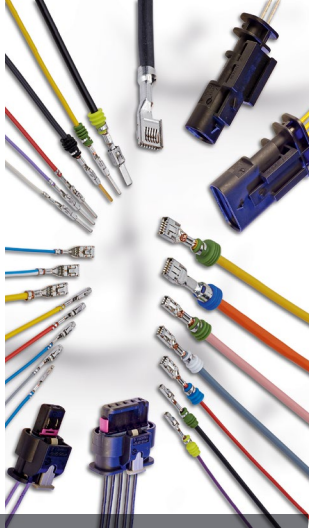




# MCON INTERCONNECTION SYSTEM

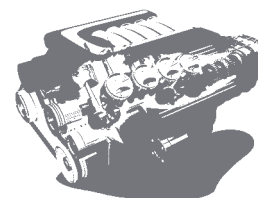
FOR THE AUTOMOTIVE INDUSTRY

# SOLUTIONS FOR FUTURE MOBILITY

The pace at which the E&E architecture of vehicles is being innovated is one of the major challenges facing the automotive industry. An increasing number of electric and electronic systems enriches modern vehicles and makes them more attractive. At the same time, reliability is one of the automotive industry's core strengths. Within this area of potential conflict, everything depends on constant innovation and proven technology. Is that a contradiction in terms? Not for us.

TE Transportation Solutions, which is part of TE Connectivity, is a company driven by technology. With this philosophy, we have become one of the world's largest manufacturers of passive components. It's part of our DNA to reconcile innovation and reliability. To do that, we have invested in modern R&D and testing infrastructure. We will show you how TE Connectivity's passive components can contribute to vehicle function enrichment, better efficiency and greater comfort.

## POWERTRAIN SYSTEMS



## SAFETY & SECURITY SYSTEMS



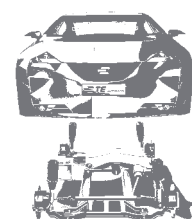
## CONVENIENCE



## DRIVER INFORMATION



## BODY & CHASSIS SYSTEMS



# TE AUTOMOTIVE ONLINE

The TE Transportation Solutions website is an innovative and interactive source for application information, product updates and technical solutions.

Please contact us at: [www.te.com/automotive](http://www.te.com/automotive)

## STAY CONNECTED

TE AUTOMOTIVE OFFERS A VARIETY OF  
PRODUCT SPECIFIC CATALOGS, BROCHURES  
AND HIGH IMPACT FLYERS TO HELP BETTER  
SERVE YOU!

## TE Literature

For more information on literature for  
TE Automotive, please contact your local  
organization or go to: [www.te.com/automotive](http://www.te.com/automotive)

## TE Products

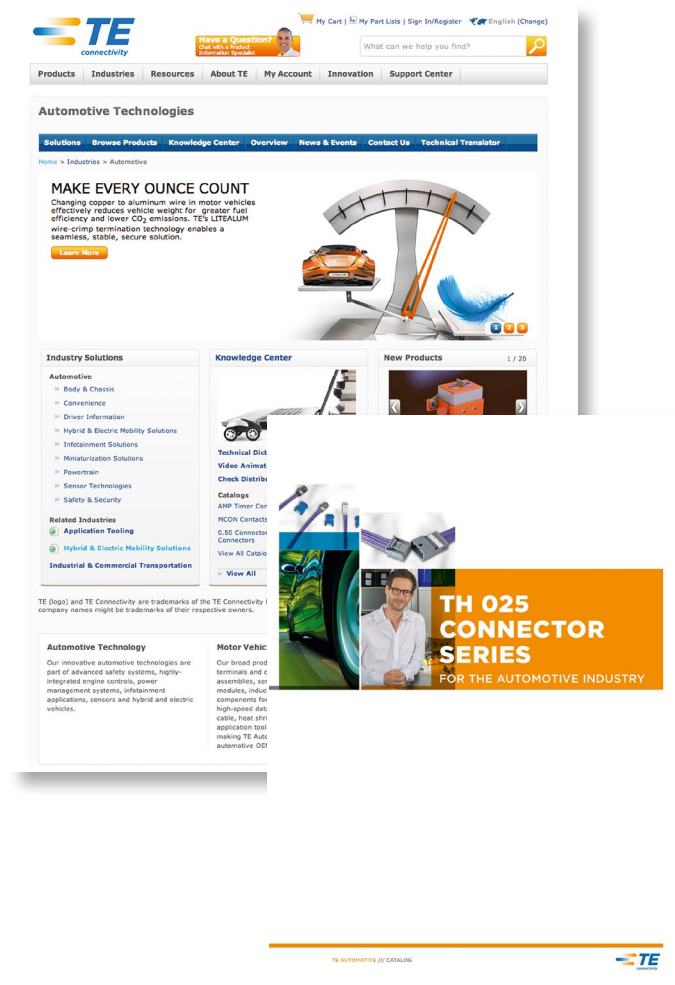
[www.te.com/en/products/product-landing.html](http://www.te.com/en/products/product-landing.html)

## Product Information Center (PIC)

You can rely on TE Connectivity's PIC Team to  
provide you support for answers to your general  
information or technical questions in an efficient  
and effective manner.

To reach our PIC staff, please contact your local  
organization or see our Global Contacts page.

Please contact us at  
[www.te.com/support-center](http://www.te.com/support-center)



# INNOVATIVE TECHNOLOGIES

TE Automotive – a business segment of TE Connectivity – follows the globalization goals of our customers, speeds up the integration of new technologies and enables our customers access to our vast product portfolio and services.



## Interconnection Systems

TE Connectivity's electrical and electronic interconnection products and solutions are used to electrically and mechanically join wires and cables, printed circuit boards, integrated circuit packages and batteries.



## Cable Assemblies

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



## Hybrid & Electric Mobility Solutions

Electric mobility is changing the way engineers think about vehicles. The way they're designed and engineered. The way they're fueled. Even the way the fuel is delivered. And we're right there with you helping complete the connections for current and next generation hybrid and electric mobility and the charging infrastructure. TE Connectivity's complete portfolio of connection and protection systems includes battery connectivity systems, connectors, cable assemblies, high-voltage relays and contactors, power distribution units and customer-specific designs.



## Sensor Solutions

TE Connectivity provides contactless and electromechanical sensor products with robust housing technologies, connection systems and temperature-resistant design for use in a variety of industrial and commercial transportation applications.



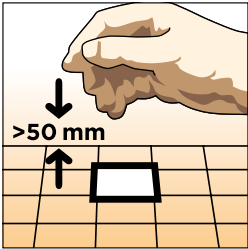
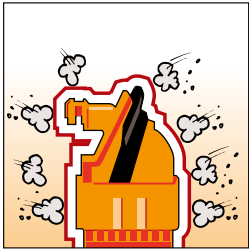
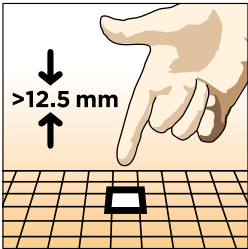
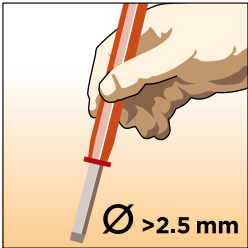
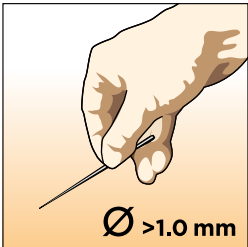
## Relays

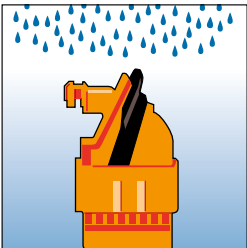
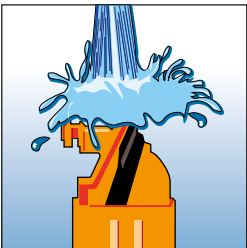
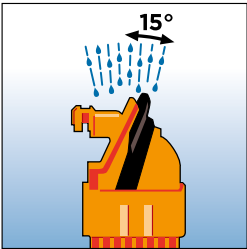
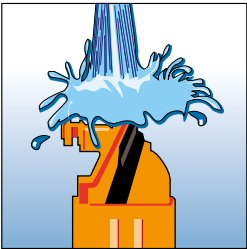
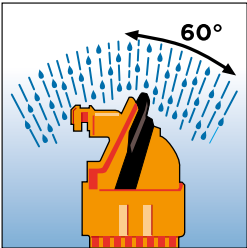
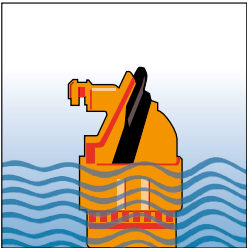
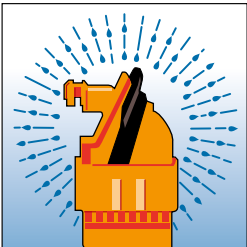
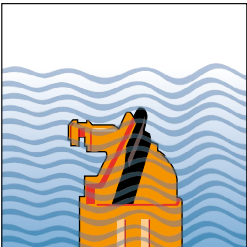
TE Connectivity's 24 V relay product line includes a broad range of robust and versatile relays for many diverse applications within trucks, buses, agricultural tractors, construction equipment and other heavy duty commercial vehicles. With increased contact gaps and other key design features, these relays are designed for use in challenging environments where they may regularly encounter extended periods of shock and vibration.



## Infotainment

TE Connectivity offers a wide variety of infotainment solutions for consumer port connections, high data rate applications, next-generation harness architecture, board-to-board connections and vehicle-to-vehicle communication.

| 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).                           |

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:

## 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

## 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 "I" 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/>

## 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 &<br>Chassis<br>Systems |
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| Receptacle Contacts - Clean Body (CB)      | 5    | •                     | •                               | •           | •                     | •                            |
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## MCON Interconnection System

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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 MCON 0.50 - clean body version

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

## MCON Interconnection System

### MCON 0.50mm 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 :**

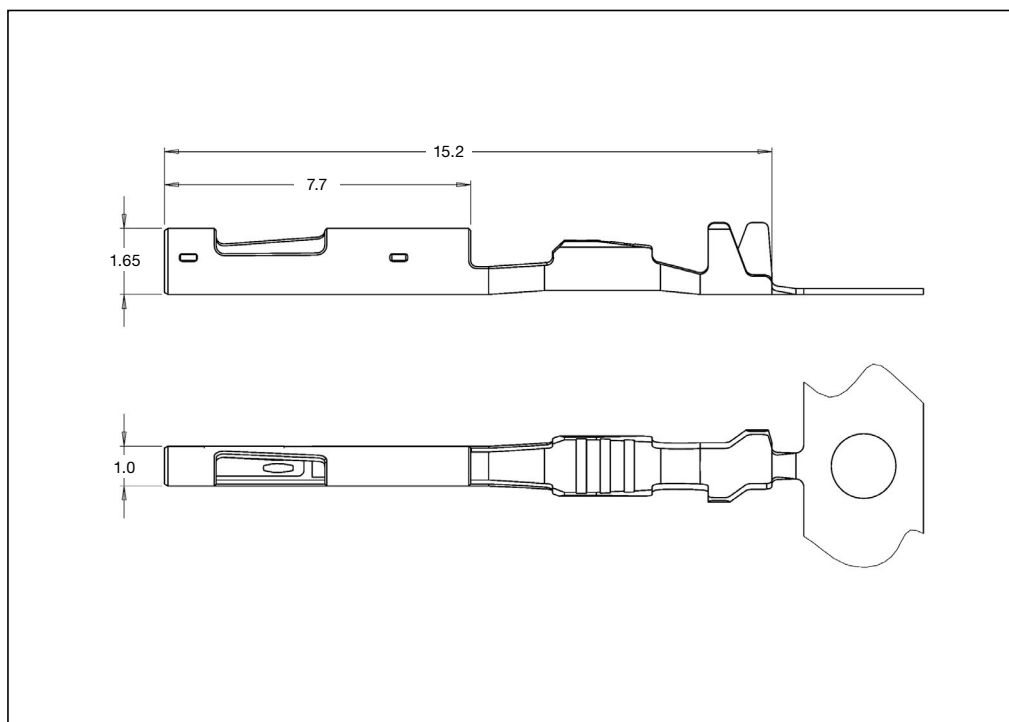
-40° C ... +105° C (tin plated)  
-40° C ... +150° C (gold plated)  
-40° C ... +170° C (silver plated)

**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 /-2 /-3             | 2151332-x     | 4-1579014-1              |
| 0.22 – 0.35                           | 0.95 – 1.20                     | 2177909     | -1 /-2 /-3             | 2151523-x     |                          |
|                                       | 1.20 – 1.30                     |             | -1 /-2 /-3             | 2151524-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

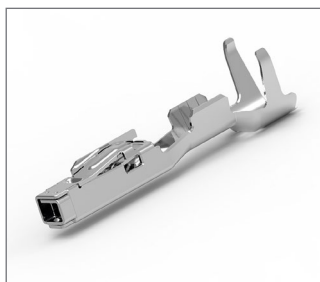
♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

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

## MCON Interconnection System

### MCON 1.2mm Contact System

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



#### Technical Features

##### Contact Material:

CuSn / CuNiSi

##### Wire Size Range:

0.13 – 1.5mm<sup>2</sup>

##### Current Carrying Capacity:

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

##### Total Temperature Range:

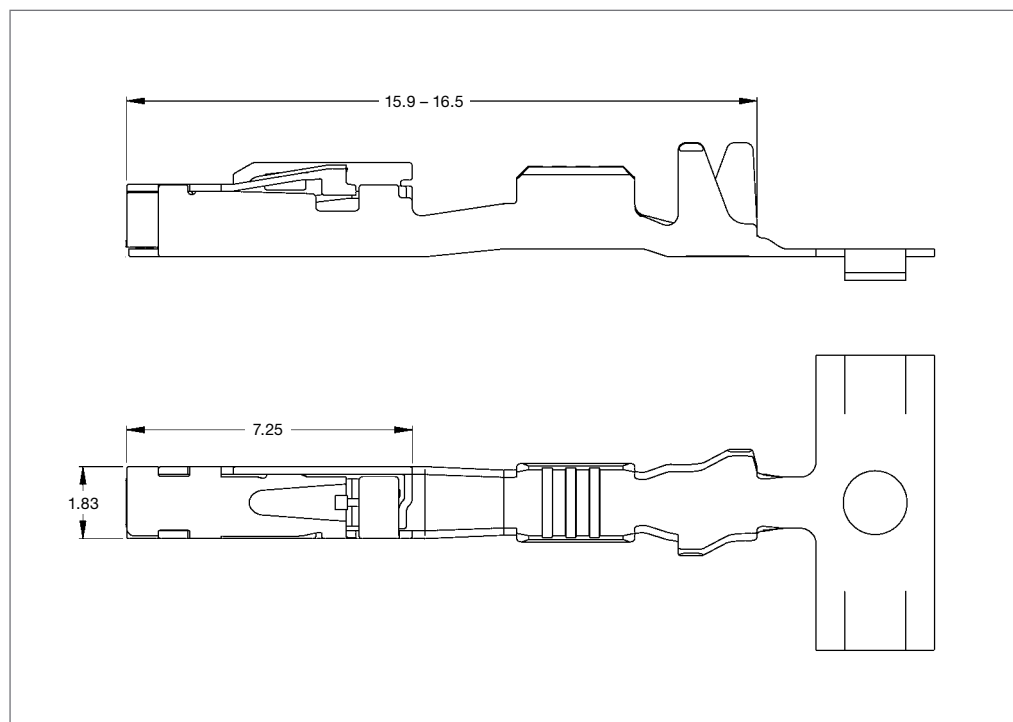
-40°C ... +130°C (tin plated)  
-40°C ... +150°C (gold plated)  
-40°C ... +150°C (silver plated)

##### Insertion Force:

Max 5 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

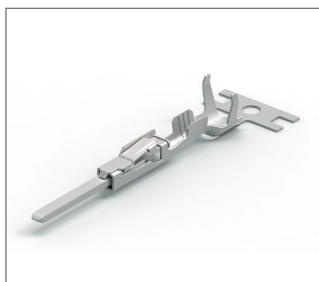
♦) The pre- and suffix for the applicators depends on the applied termination equipment

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

## MCON Interconnection System

### MCON 1.2mm Contact System

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



#### Technical Features

##### Contact Material:

CuSn/CuNiSi

##### Wire Size Range:

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

##### Current Carrying Capacity:

up to 17 Ampere

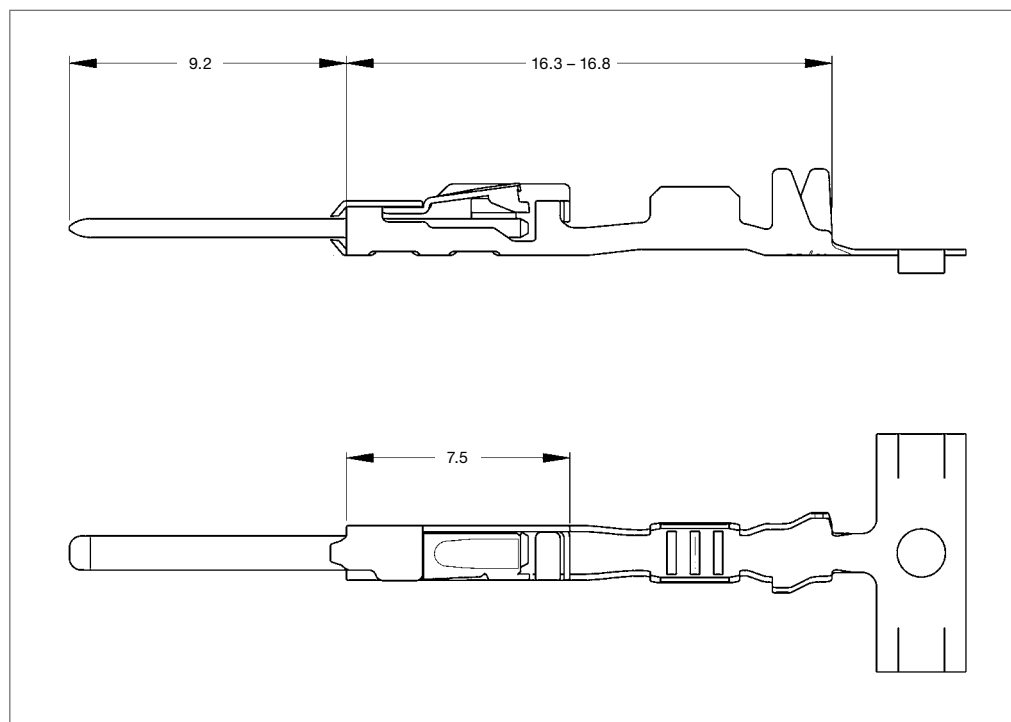
(@ 80° C ambient temperature)

##### 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 1.2mm Contact System

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



#### Technical Features

##### Contact Material:

CuSn / CuNiSi

##### Wire Size Range:

0.25 – 1.5mm<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)

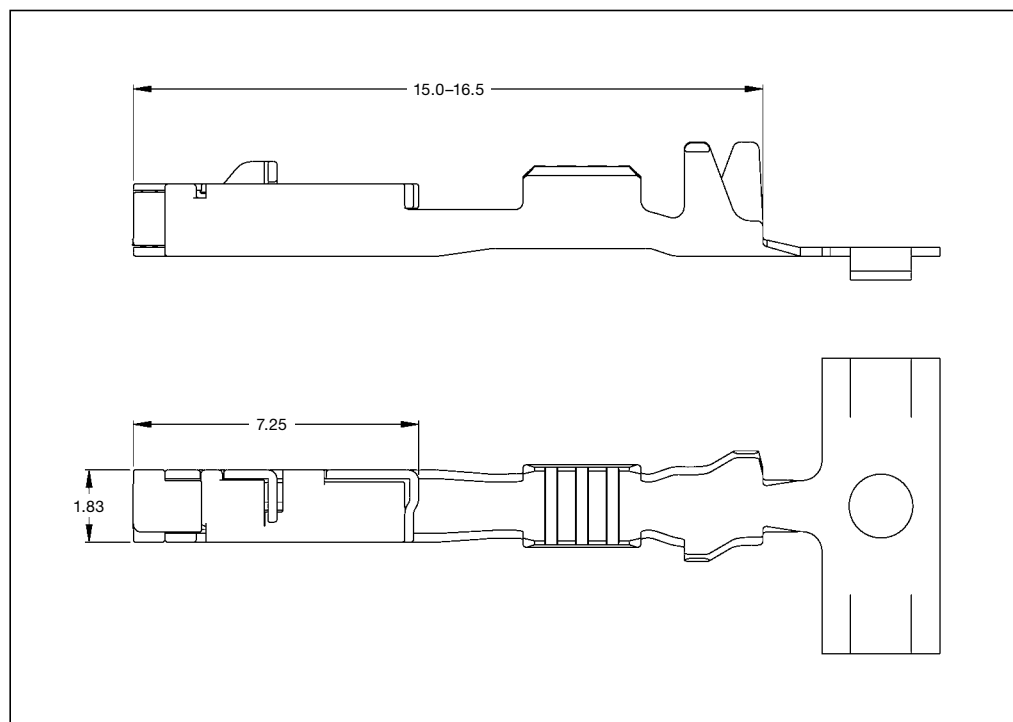
-40° C ... +150° C (silver plated)

##### Insertion Force:

Max 5 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

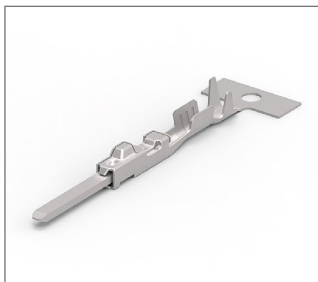
♦) The pre- and suffix for the applicators depends on the applied termination equipment

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

## MCON Interconnection System

### MCON 1.2mm Contact System

#### Tab Contacts – Clean Body (CB)



#### Technical Features

**Contact Material:**

CuSn

**Wire Size Range:**

0.25 – 0.75mm<sup>2</sup>

**Current Carrying Capacity:**

up to 17 Ampere

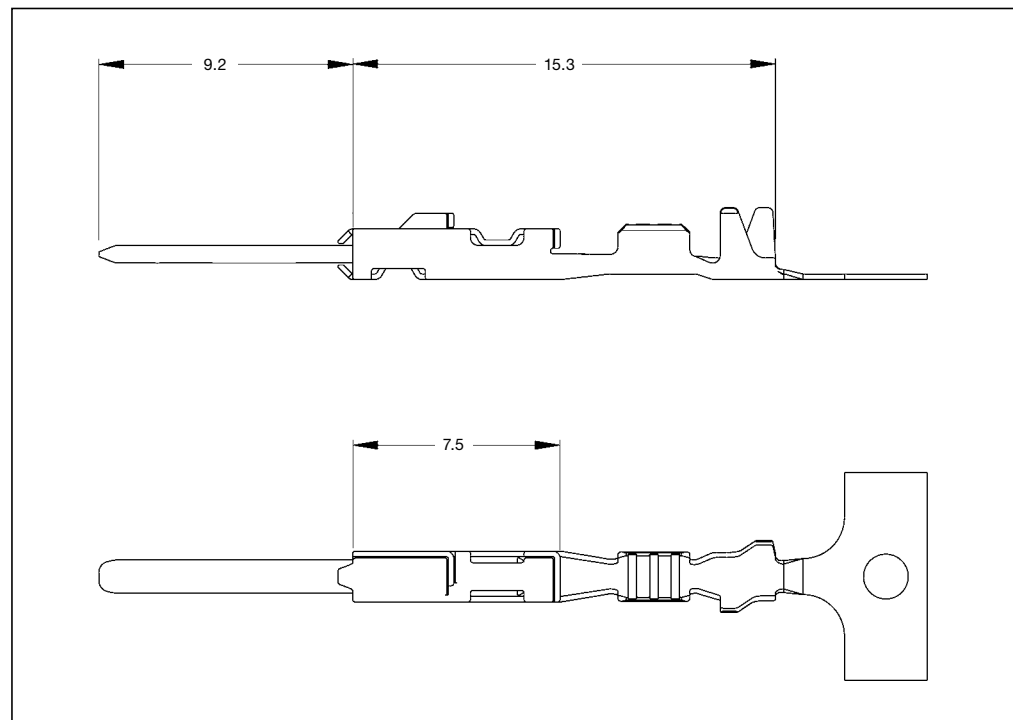
(@ 80° C ambient temperature)

**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                    | 2121114     | -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 1.2mm Contact System

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



#### Technical Features

##### Wire Size Range:

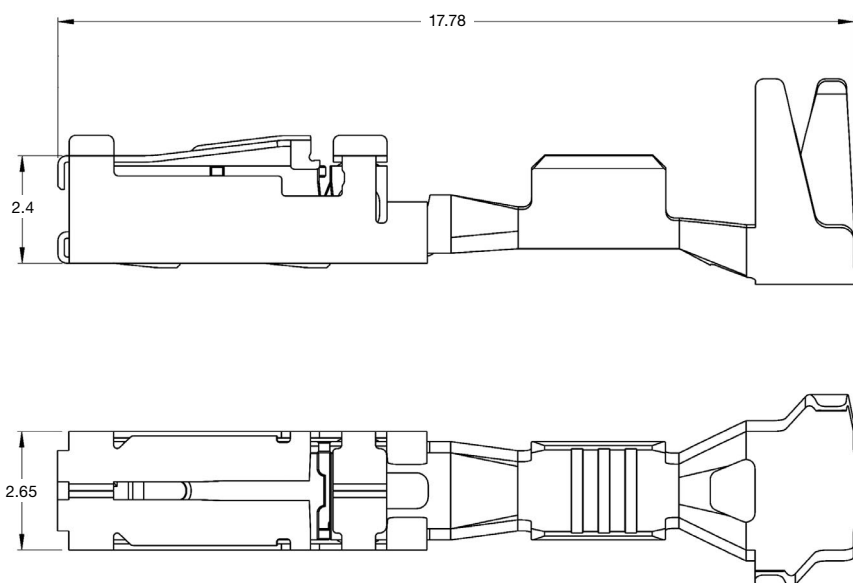
0.25 – 1.0mm<sup>2</sup>

##### 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 – 4.0mm<sup>2</sup>

**Current Carrying Capacity:**

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

**Total Temperature Range:**

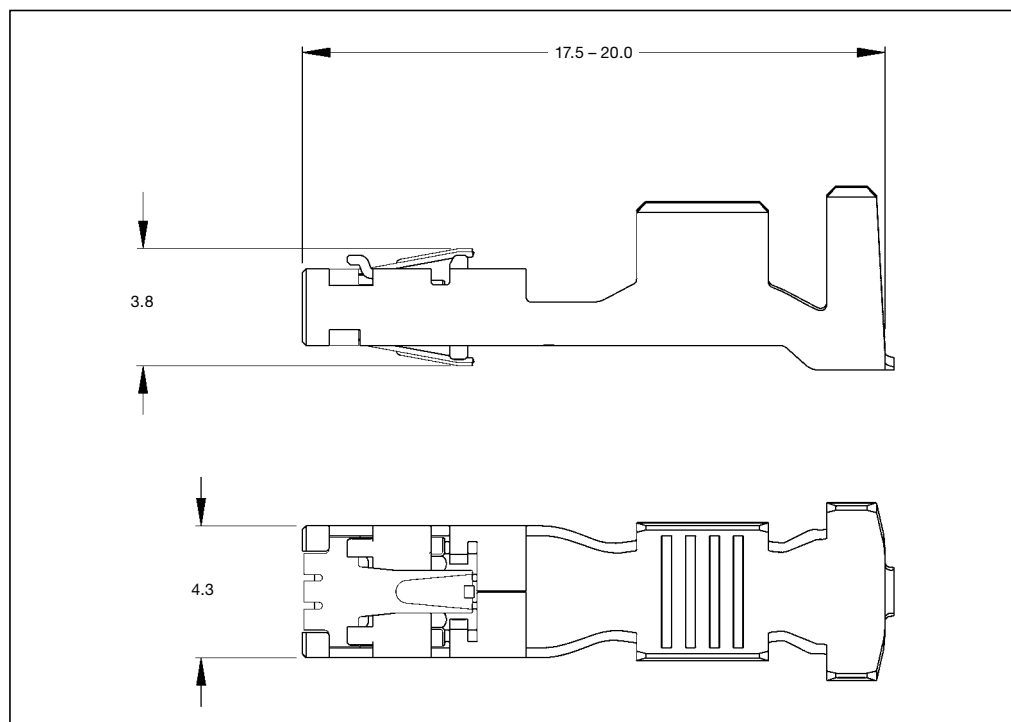
-40° C ... +130° C (tin plated)  
-40° C ... +150° C (silver plated)

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

a) all wire sizes except for 2.5 ACOME

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

a) all wire sizes except for 2.5 ACOME

b) for 2.5mm<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

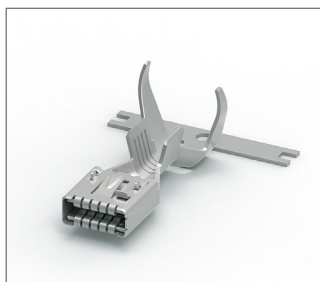
♦ The pre- and suffix for the  
applicators depends on the  
applied termination equipment

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

## MCON Interconnection System

### MCON 6.3mm Contact System

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



#### Technical Features

**Contact Material:**

CuSn/CuNiSi

**Wire Size Range:**

>2.5 – 6.0mm<sup>2</sup>

**Current Carrying Capacity:**

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

**Total Temperature Range:**

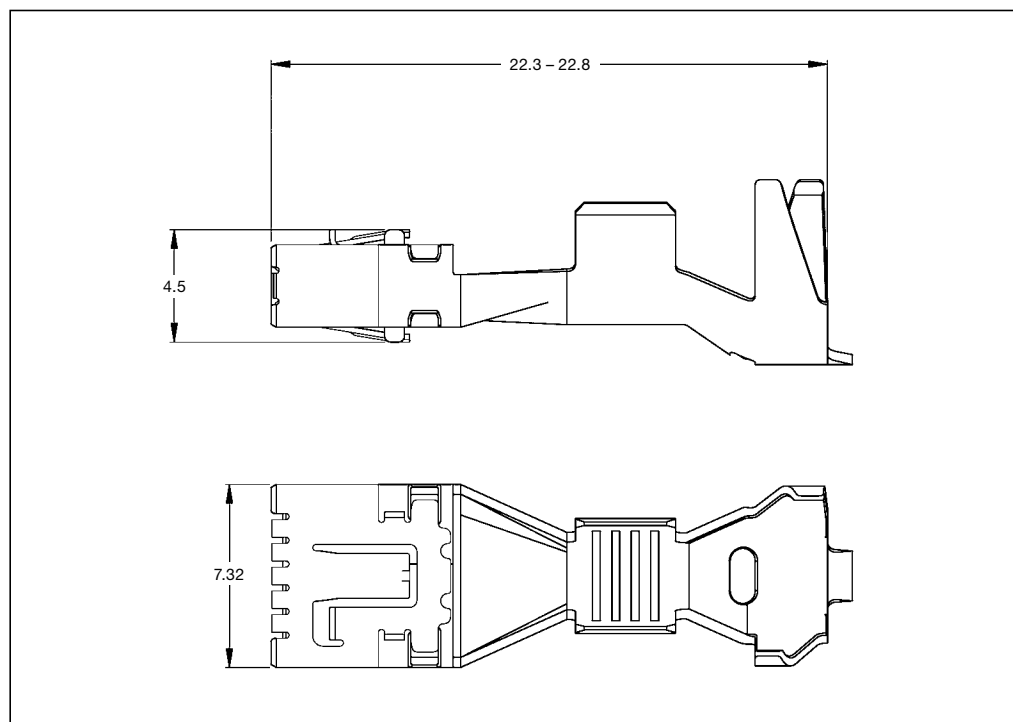
–40° C ... +130° C (tin plated)  
–40° C ... +150° C (silver plated)

**Inserting Force:**

Max. 15 N

**Extraction Force:**

Max. 10 N



**Extraction Tool\*:**

5-1579008-1

**Product Drawing:**

1564888

**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 with Single Wire System (SWS)

| Wire Size Range<br>(mm <sup>2</sup> ) | Insulation Diameter<br>(mm) FLR | Material<br>and Finish *) | Part Numbers |               |               |               |
|---------------------------------------|---------------------------------|---------------------------|--------------|---------------|---------------|---------------|
|                                       |                                 |                           | Strip Form   | Applicator ♦) | Hand Tool     | Die Set       |
| >2.5 – 4.0                            | 3.4 – 3.7                       | -1 /-3                    | 1703836      | x-2266518-x   | On request ◇) | On request ◇) |
| >4.0 – 6.0                            | 4.0 – 4.3                       | -1 /-3                    | 1703834      | x-2266519-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 6.3mm Contact System

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



#### Technical Features

**Contact Material:**

CuSn/CuNiSi

**Wire Size Range:**

>2.5 – 6.0mm<sup>2</sup>

**Current Carrying Capacity:**

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

**Total Temperature Range:**

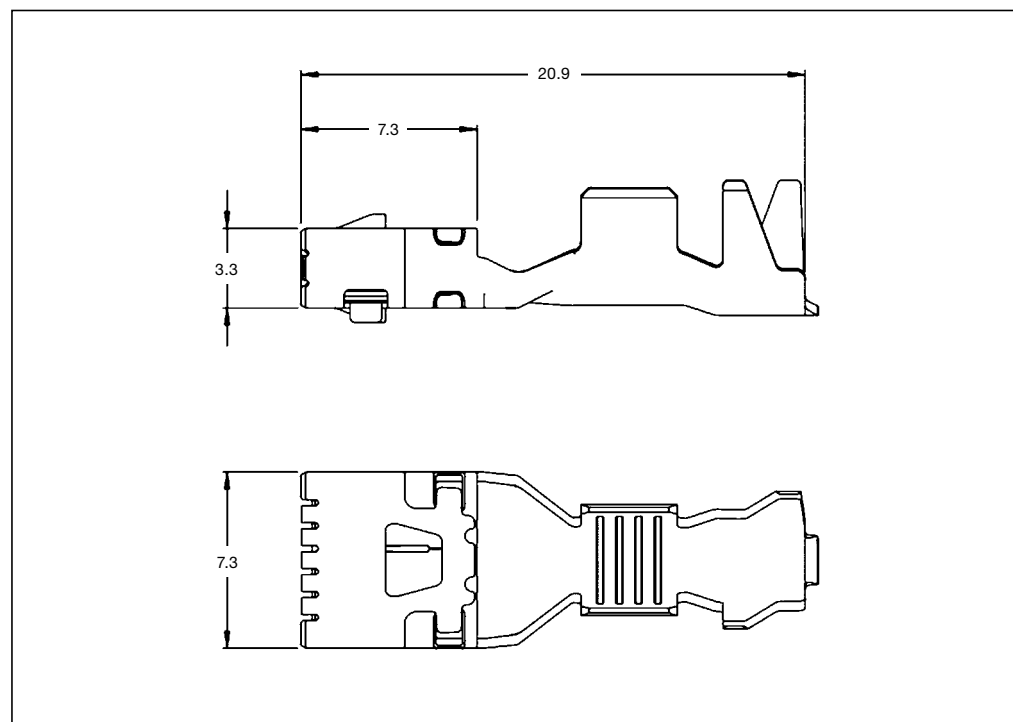
–40° C ... +130° C (tin plated)  
–40° C ... +150° C (silver plated)

**Inserting Force:**

Max. 15 N

**Extraction Force:**

Max. 10 N



**Extraction Tool\*:**

1579028-1

**Product Drawing:**

1564888

**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 | Material<br>and Finish *) | Part Numbers |               |               |               |
|---------------------------------------|---------------------------------|---------------------------|--------------|---------------|---------------|---------------|
|                                       |                                 |                           | Strip Form   | Applicator ♦) | Hand Tool     | Die Set       |
| >2.5 – 4.0                            | 3.4 – 3.7                       | -1 / -3                   | 2177770      | x-2266096-x   | On request ◇) | On request ◇) |
| >4.0 – 6.0                            | 4.0 – 4.3                       | -1 / -3                   | 2177771      | 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

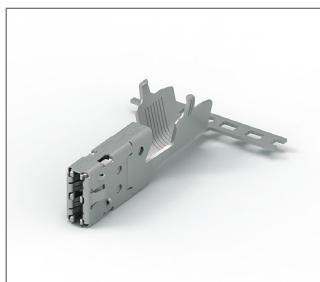
♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

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

## MCON Interconnection System

### MCON 8mm Contact System

#### Receptacle Contacts



#### Technical Features

##### Wire Size Range:

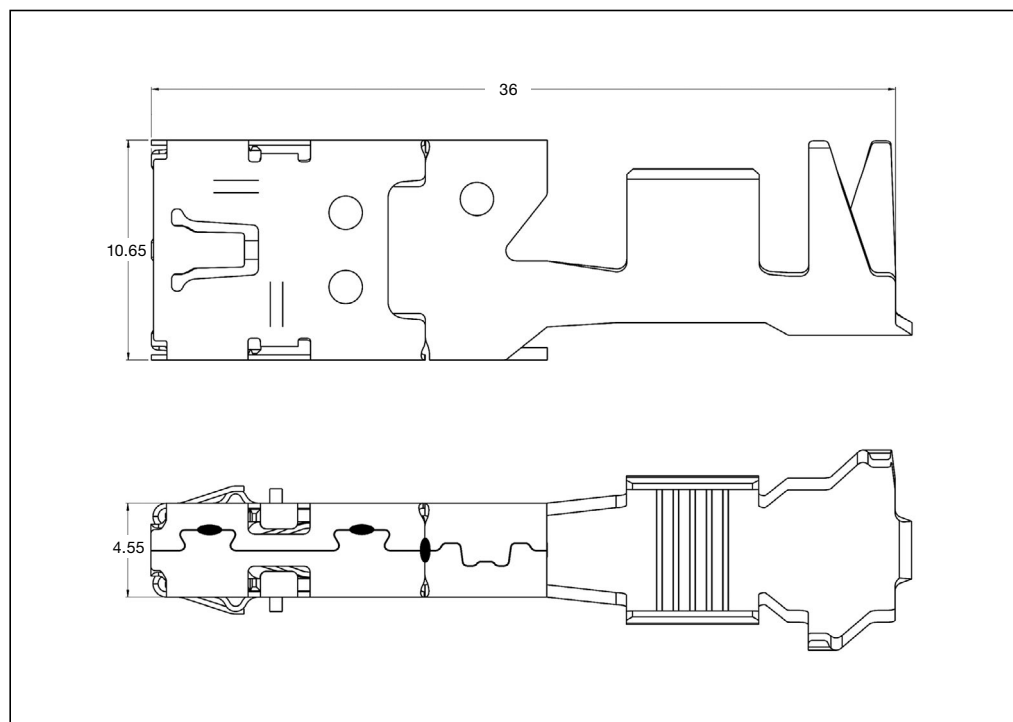
>2.5 – 16mm<sup>2</sup>

##### Current Carrying Capacity:

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

##### Total Temperature Range:

–40° C ... +150° C (tin plated)  
–40° C ... +180° C (silver plated)



##### 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 | Part Number | Material and Finish *) | Applicator ♦) | Hand Tool   | Die Set       |
|------------------------------------|------------------------------|-------------|------------------------|---------------|-------------|---------------|
| >2.5 – 4.0                         | 2.7 – 3.7                    | 2208762     | -1 /-3                 | x-2266457-x   | 2-1579028-2 | On request ◇) |
| 6.0 – 10.0                         | 4.0 – 6.5                    | 2208763     | -1 /-3                 | x-2266456-x   |             |               |
| 16                                 | 8.3 max.                     | 2208764     | -1 /-3                 | x-2276053-x   |             |               |

#### Receptacle Contacts 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       |
|------------------------------------|------------------------------|-------------|------------------------|---------------|-------------|---------------|
| >2.5 – 4.0                         | 2.7 – 3.7                    | 2208765     | -1 /-3                 | x-2266455-x   | 2-1579028-2 | On request ◇) |
| 6.0 – 10.0                         | 4.0 – 6.5                    | 2208766     | -1 /-3                 | x-2266257-x   |             |               |

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

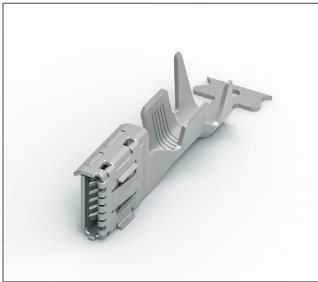
**Note:** All part numbers are RoHS and ELV compliant

♦) 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 9.5mm Contact System

Receptacle Contacts



Technical Features

**Contact Material:**  
CuNiSi/CuSn

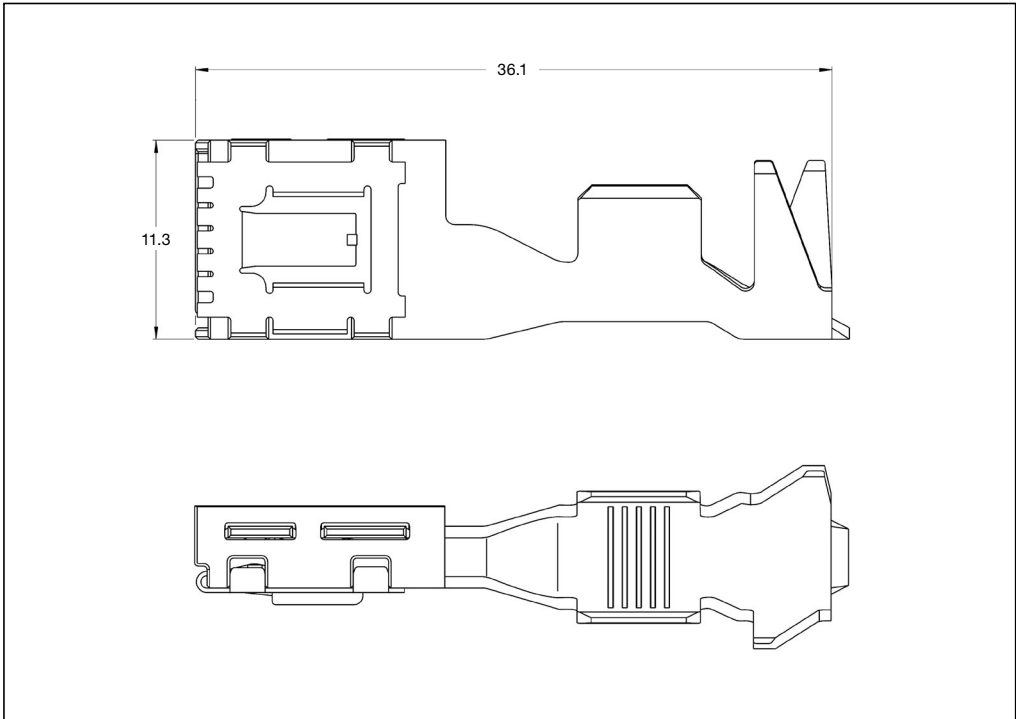
**Wire Size Range:**  
>10 – 16 mm<sup>2</sup>

**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)

**Inserting 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

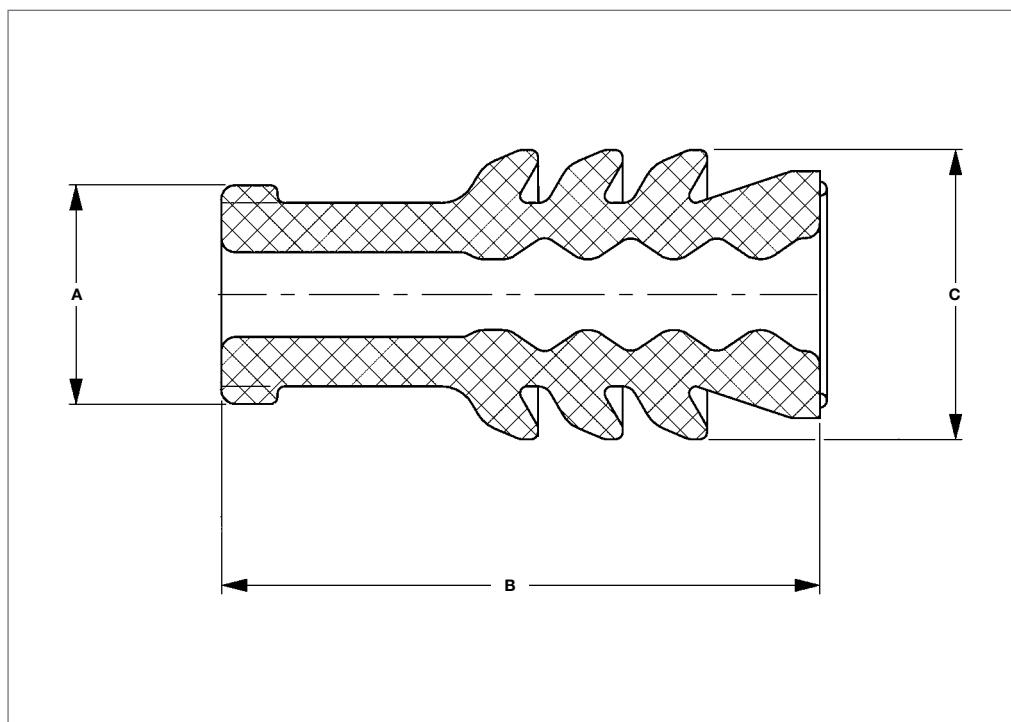
♦) The pre- and suffix for the  
applicators depends on the  
applied termination equipment

◇) 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 | A   | Dimensions B | C   | Used for           |
|----------------------|------------------------------|---------|-------------|-----|--------------|-----|--------------------|
| 3.55                 | 0.9-1.4                      | Yellow  | 967067-2    | 3.1 | 8.5          | 4.1 | MCON 1.2 / HPF 1.2 |
|                      | 1.4-2.1                      | Green   | 967067-1    |     |              |     | MCON 1.2 / HPF 1.2 |
|                      | 1.4-1.9                      | Red     | 2098582-1*  |     |              |     | MCON 1.2           |
|                      | 1.9-2.1                      | Yellow  | 964972-1    |     |              |     | MCON 1.2           |
|                      | Sealing Plug                 | Blue    | 967056-1    |     |              |     | MCON 1.2 / HPF 1.2 |
| 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 |              |     |                    |

\*) Seals for 150° C applications. Wire used must be able to withstand 150° C for 1008 hours.



#### POWERTRAIN SYSTEMS



#### SAFETY & SECURITY SYSTEMS



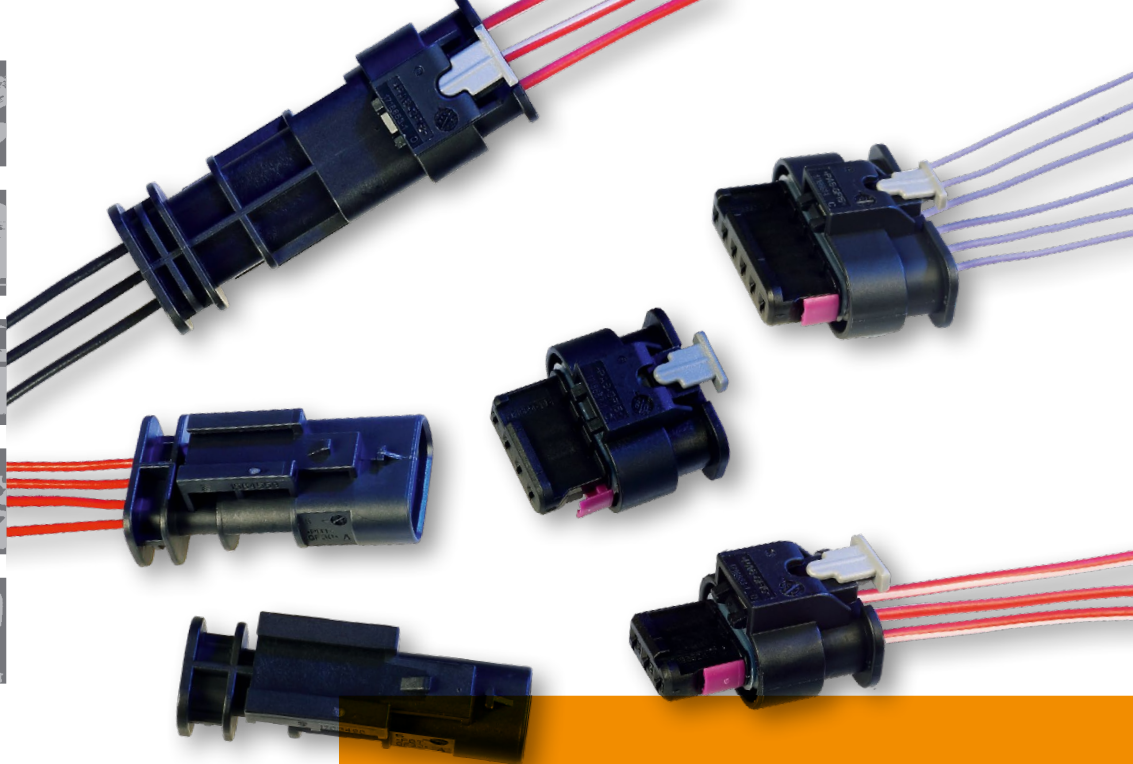
#### CONVENIENCE



#### 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.

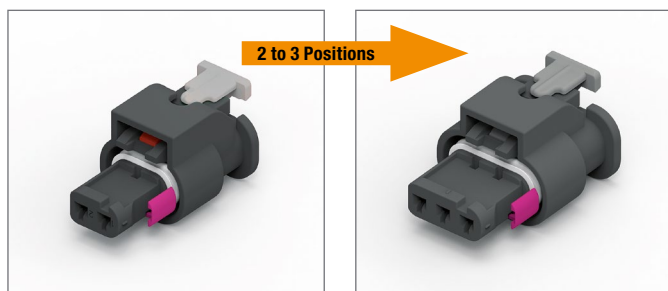
#### Features

- 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 125° C



#### Technical Features

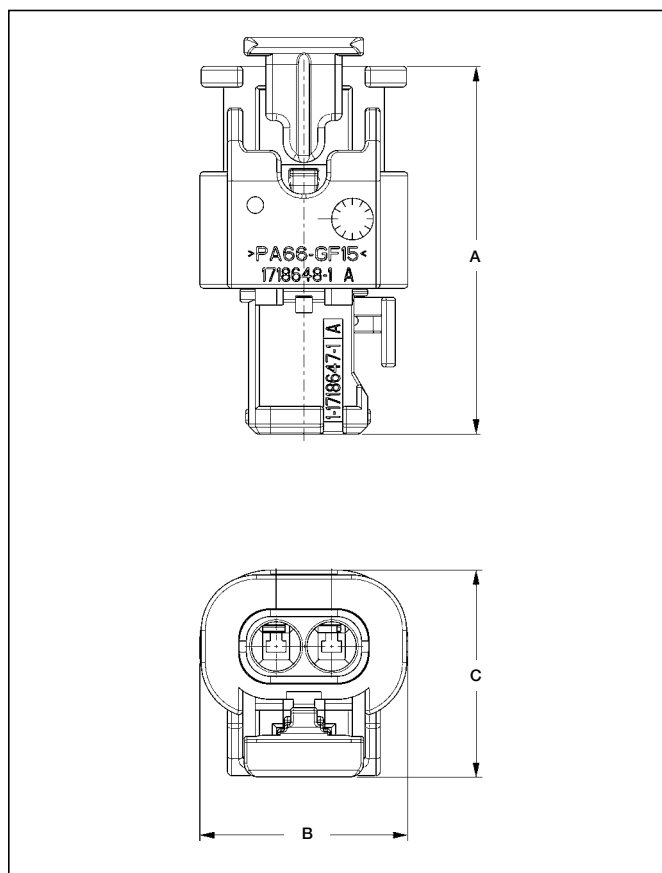
**Wire Size Range:**  
max. 1.0mm<sup>2</sup>

**Total Temperature Range:**  
125° 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

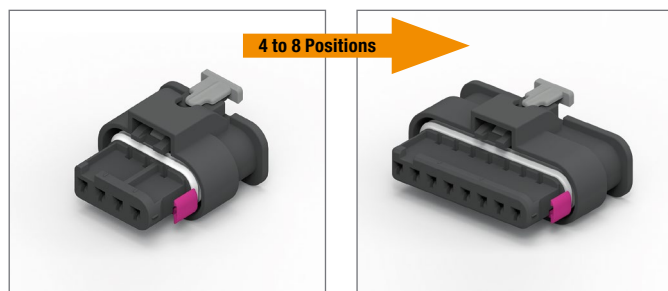
| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° turned Outer Housing | Part Number  | A    | Dimensions (mm)<br>B | C    | Mating Tab Housing |
|------------------|----------------|---------------|--------------|---------------------------|--------------|------|----------------------|------|--------------------|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

\* on request

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 Receptacle Housing for Locking Lance contacts - 4 to 8 Positions – up to 125°C



#### Technical Features

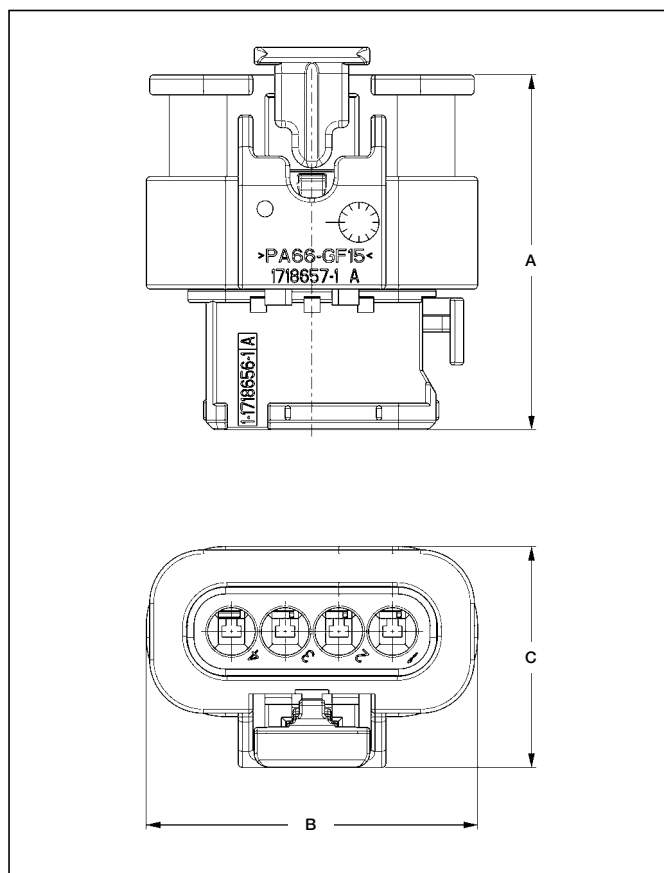
**Wire Size Range:**  
max. 1.0mm<sup>2</sup>

**Total Temperature Range:**  
125°C

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861

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



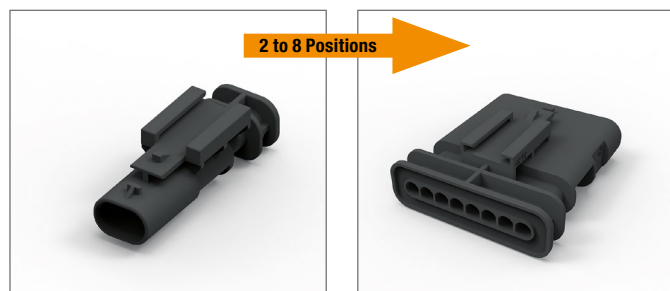
#### Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 4 to 8 Positions

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | 180° turned Outer Housing | Part Number  | A    | Dimensions (mm) B | C    | Mating Tab Housing |
|------------------|----------------|---------------|--------------|---------------------------|--------------|------|-------------------|------|--------------------|
| 4                | A              | Black         | 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                |
|                  | B              | Natural       | Yes          |                           | 2-1718645-1  |      |                   |      | 2-1564559-x        |
|                  |                |               | No           |                           | 2-1670918-1  |      |                   |      | 2-1564559-x        |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
| 5                | C              | Blue          | Yes          | —                         | 3-1718645-1* | 26.5 | 28.7              | 16.5 | N/A                |
|                  |                |               | No           |                           | 3-1670918-1* |      |                   |      | N/A                |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
|                  | A              | Black         | Yes          |                           | 1-1718806-1  |      |                   |      | 1-2141520-x        |
|                  |                |               | No           |                           | 1-1670921-1  |      |                   |      | 1-2141520-x        |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
| 6                | B              | Natural       | Yes          | —                         | 2-1718806-1  | 26.5 | 32.7              | 16.5 | 2-2141520-x        |
|                  |                |               | No           |                           | 2-1670921-1  |      |                   |      | 2-2141520-x        |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
|                  | C              | Blue          | Yes          |                           | 3-1718806-1* |      |                   |      | N/A                |
|                  |                |               | No           |                           | 3-1670921-1* |      |                   |      | N/A                |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
| 8                | A              | Black         | Yes          | —                         | 1-1718646-1  | 26.5 | 40.7              | 16.5 | 1-2141324-x        |
|                  |                |               | No           |                           | 1-1670919-1  |      |                   |      | 1-2141324-x        |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
|                  | B              | Natural       | Yes          |                           | 2-1718646-1* |      |                   |      | N/A                |
|                  |                |               | No           |                           | 2-1670919-1* |      |                   |      | N/A                |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
|                  | A              | Black         | Yes          | —                         | 1-1719393-1  | 26.5 | 40.7              | 16.5 | 1-1703506-1        |
|                  |                |               | No           |                           | 1-1670920-1  |      |                   |      | 1-1703506-1        |
|                  |                |               | —            |                           | —            |      |                   |      | —                  |
|                  | B              | Natural       | 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 125° C



#### Technical Features

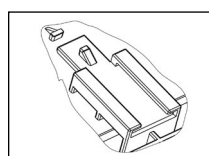
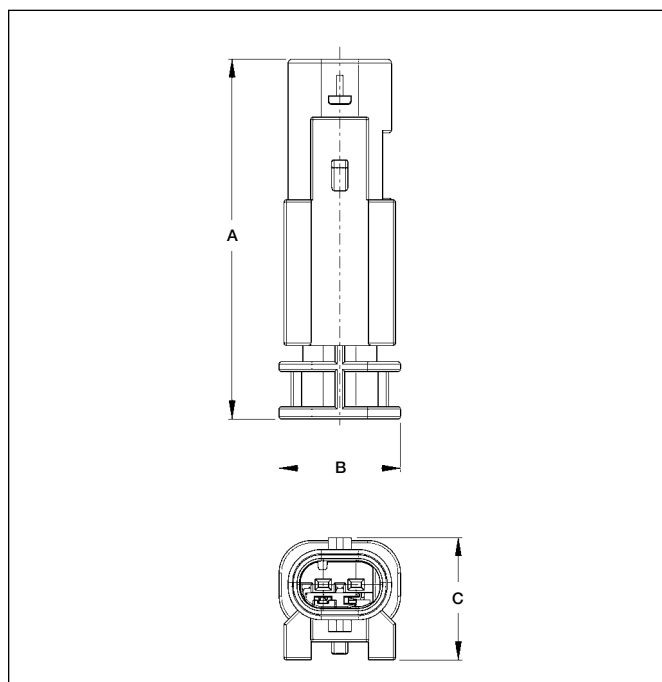
**Wire Size Range:**  
max. 1.0mm<sup>2</sup>

**Total Temperature Range:**  
125°C

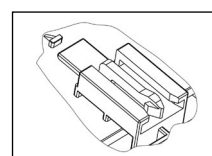
**Product Specification:**  
N/A

**Application Specification:**  
114-18910-1

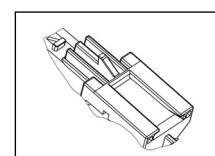
**Extraction Tool:**  
1-1579028-5



X-XXXXXXX-1



X-XXXXXXX-2



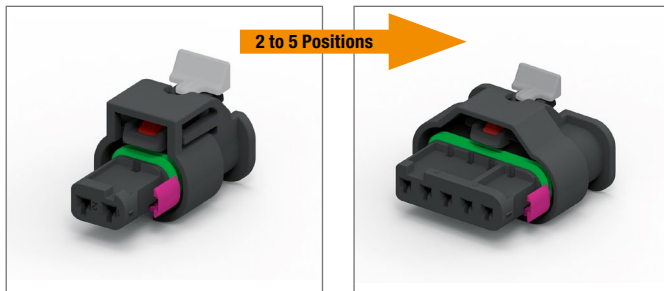
X-XXXXXXX-3

### 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

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



**Technical Features**

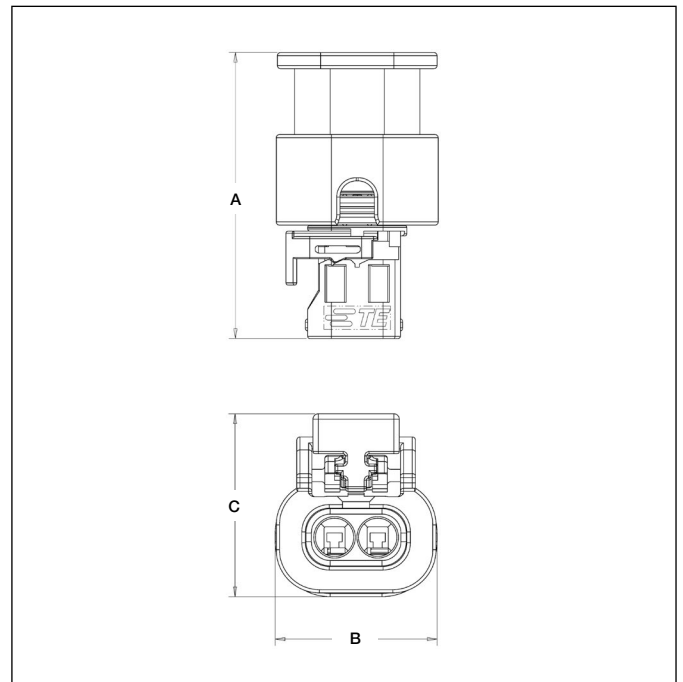
**Wire Size Range:**  
max. 1.0mm<sup>2</sup>

**Total Temperature Range:**  
150° C

**Product Specification:**  
108-18969

**Application Specification:**  
114-18861

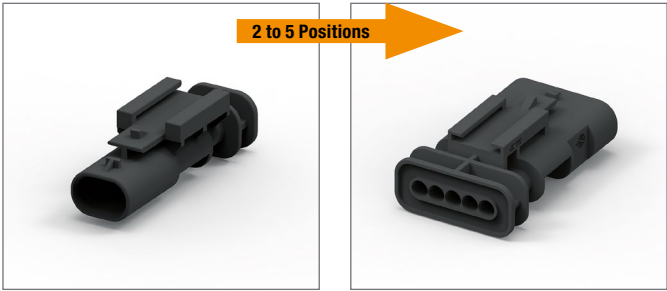
**Extraction Tool:**  
5-1579007-3



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

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | Dimensions (mm) |      |      | Mating Tab Housing |
|------------------|----------------|---------------|--------------|-------------|-----------------|------|------|--------------------|
|                  |                |               |              |             | A               | B    | C    |                    |
| 2                | A              | Black         | Yes          | 1-2236896-5 | 26.5            | 14.8 | 14.8 | 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        |
|                  | C              | Blue          | Yes          | 3-2236896-5 |                 |      |      | N/A                |
|                  |                |               | No           | 3-2236896-1 |                 |      |      | 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              | Violett       | Yes          | 4-2236343-5 |                 |      |      | N/A                |
|                  |                |               | No           | 4-2236343-1 |                 |      |      | N/A                |
| 5                | A              | Black         | Yes          | 1-2236898-5 | 26.5            | 28.7 | 16.5 | 1-2236954-5        |
|                  |                |               | No           | 1-2236898-1 |                 |      |      | 1-2236954-1        |
|                  | B              | Natural       | Yes          | 2-2236898-5 |                 |      |      | 2-2236954-5        |
|                  |                |               | No           | 2-2236898-1 |                 |      |      | 2-2236954-1        |

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



Technical Features

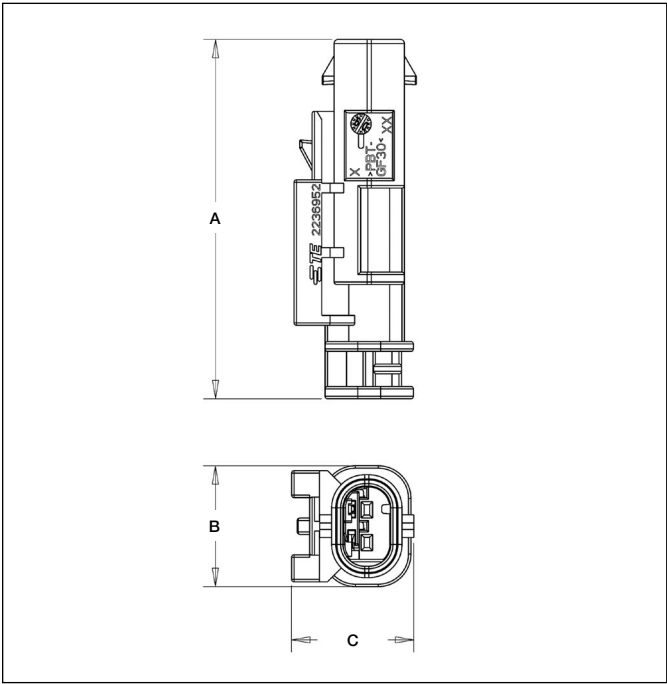
**Wire Size Range:**  
max. 1.0mm<sup>2</sup>

**Total Temperature Range:**  
150° C

**Product Specification:**  
108-18969

**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              | Gray          | 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              | Gray          | 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              | Gray          | 2-2236954-5 |                 |      |       | 2-2236898-5 or 2-2236898-1 |

## MCON Interconnection System

### Housings and Connectors

#### Sealed MCON 1.2 V4 Series / HPF 1.2 Series - 2 Positions – up to 150° C

Short Shroud



Long Shroud



#### Technical Features

##### Wire Size Range:

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

##### Total Temperature Range:

150° C

##### Product Specification:

108-94415

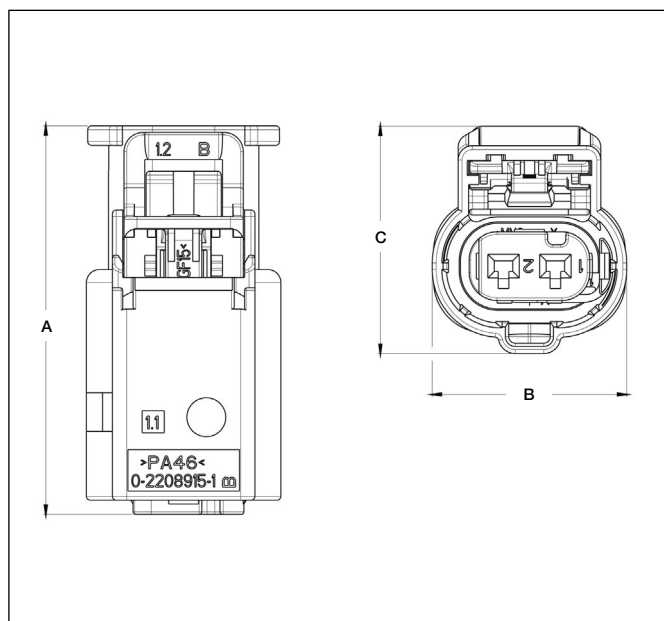
##### Application Specification:

114-94316

##### Extraction Tool:

5-1579007-3

1-1579007-4



#### Sealed MCON 1.2 V4 series

| No. of Positions | Keying Options | Housing Color | Long / Short Shroud | Vibration Level | Part Number | A  | Dimensions (mm)<br>B | C     | Used Cable Fixation | Used Terminal System |
|------------------|----------------|---------------|---------------------|-----------------|-------------|----|----------------------|-------|---------------------|----------------------|
| 2                | A              | Black         | Long                | V4              | 5-2208918-1 | 30 | 15.0                 | 16.05 | 2208939-1           | MCON 1.2 LL          |
|                  |                |               | Short               |                 | 5-2236115-1 |    |                      |       |                     |                      |
|                  | B              | Brown         | Long                |                 | 5-2208918-2 |    |                      |       |                     |                      |
|                  |                |               | Short               |                 | 5-2236115-2 |    |                      |       |                     |                      |

Short Shroud



Long Shroud



#### Technical Features

##### Wire Size Range:

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

##### Temperature Range:

150° C

##### Product Specification:

108-94415

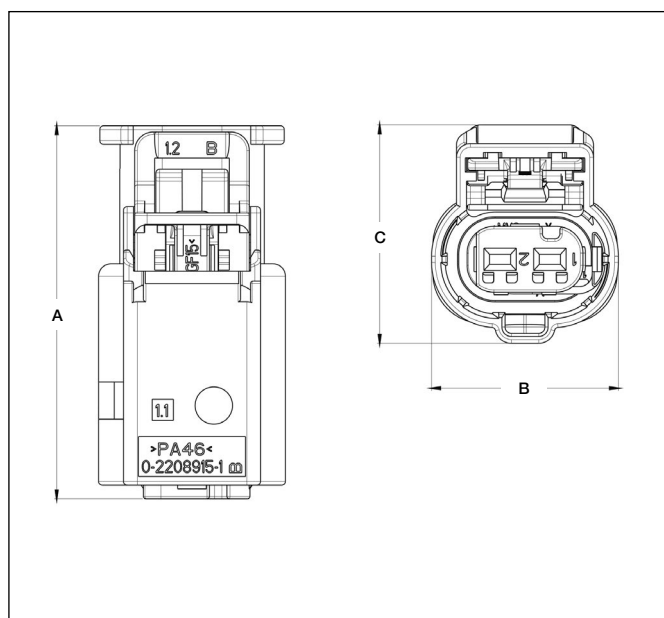
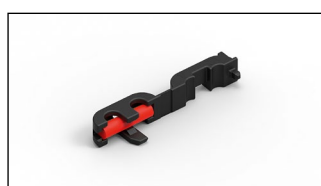
##### Application Specification:

114-94316

##### Extraction Tool:

5-1579007-3

1-1579007-4



#### Sealed HPF 1.2 Series - 2 Positions

| No. of Positions | Keying Options | Housing Color | Long / Short Shroud | Vibration Level | Part Number | A  | Dimensions (mm)<br>B | C     | Used Cable Fixation | Used Terminal System |
|------------------|----------------|---------------|---------------------|-----------------|-------------|----|----------------------|-------|---------------------|----------------------|
| 2                | A              | Black         | Long                | V5              | 5-2208920-1 | 30 | 15.0                 | 16.05 | 2208939-1           | HPF 1.2              |
|                  |                |               | Short               |                 | 5-2236116-1 |    |                      |       |                     |                      |
|                  | B              | Brown         | Long                |                 | 5-2208920-2 |    |                      |       |                     |                      |
|                  |                |               | Short               |                 | 5-2236116-2 |    |                      |       |                     |                      |

## 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. 1.0mm<sup>2</sup> (20 –16 AWG)

##### Total Temperature Range:

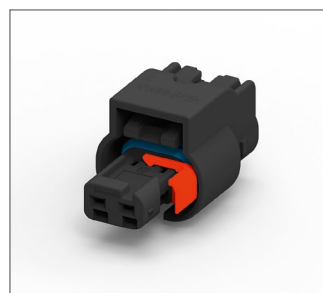
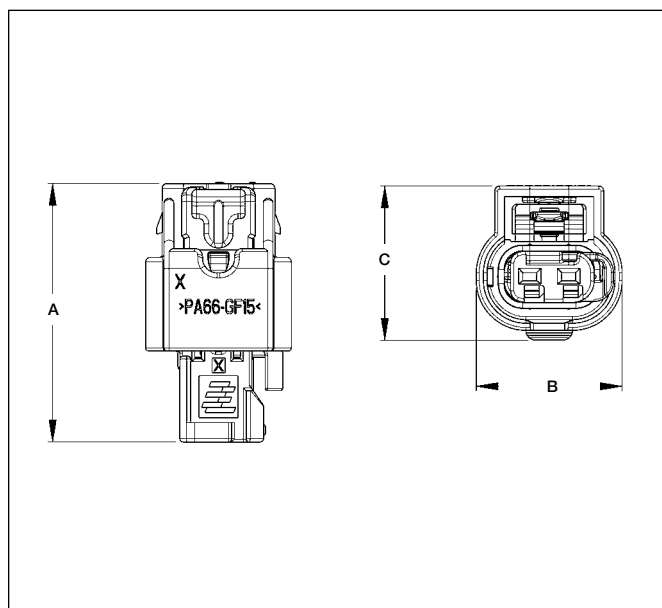
125° C

##### Product Specification:

N/A

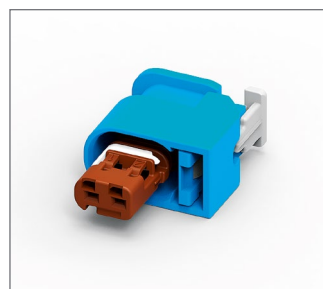
##### Application Specification:

408-8928



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

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | A    | Dimensions (mm)<br>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 |      |                      |      |
| 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 |      |                      |      |



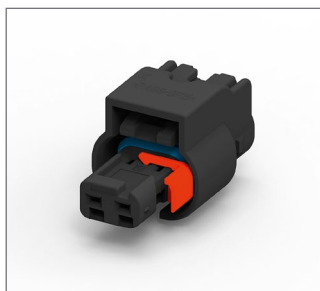
#### Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts - Low Profile Sidelatch

| No. of Positions | Keying Options | Housing Color | CPA Yes / No | Part Number | A    | Dimensions (mm) |    |
|------------------|----------------|---------------|--------------|-------------|------|-----------------|----|
|                  |                |               |              |             |      | B               | C  |
| 2                | A              | Brown         | No           | 2138873-1   | 26.5 | 18.8            | 11 |
|                  |                |               | Yes          | 2138873-4   |      |                 |    |
|                  | B              |               | No           | 2138873-2   |      |                 |    |
|                  |                |               | Yes          | 2138873-5   |      |                 |    |
|                  | C              |               | No           | 2138873-3   |      |                 |    |
|                  |                |               | Yes          | 2138873-6   |      |                 |    |

## MCON Interconnection System

### Housings and Connectors

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



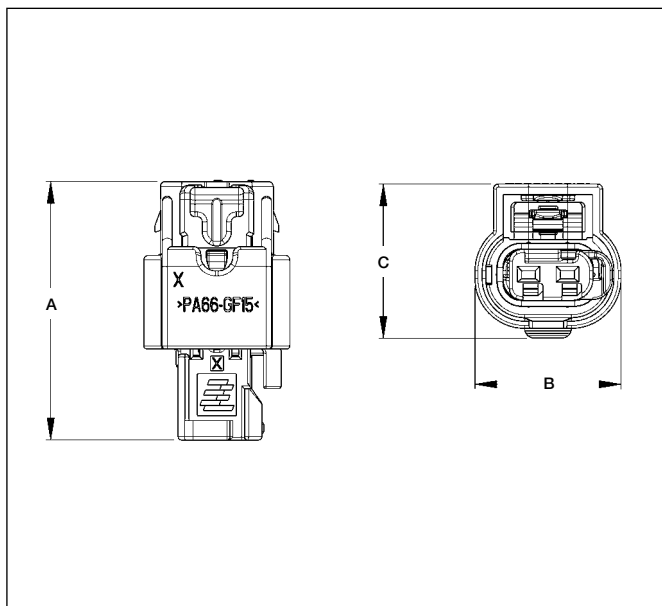
#### Technical Features

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

**Total Temperature Range:**  
150° C

**Product Specification:**  
N/A

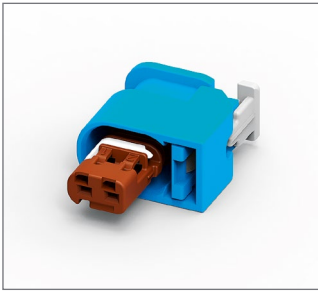
**Application Specification:**  
408-8928



#### 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)<br>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 |      |                      |      |

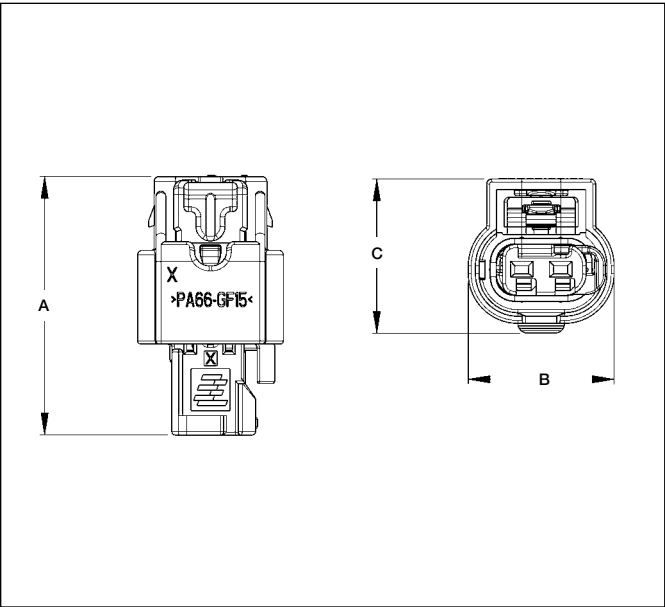
Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts - Low Profile Sidelatch –up to 150°C



Technical Features

**Wire Size Range:**  
max. 1.0mm<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   |      |                      |      |

**Sealed MCON 1.2 32 Positions Mixed Housing**



**Technical Features**

**No. of Positions:**

32

**Wire Size Range:**

0.25 – 6.0mm<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

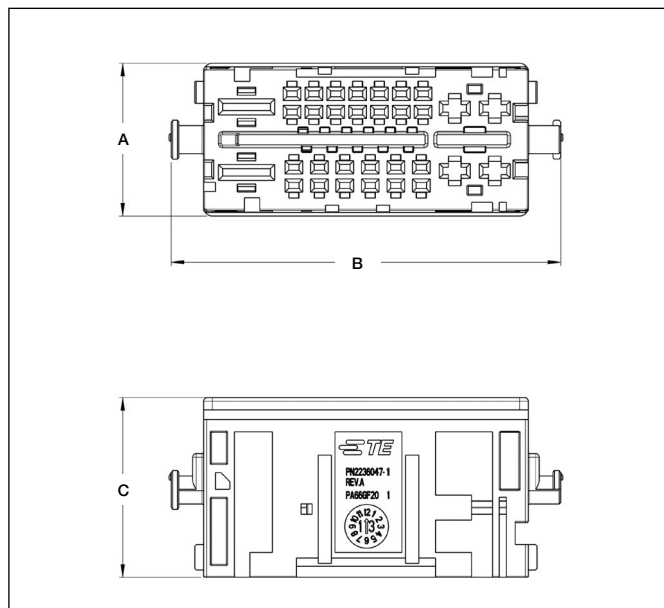
5-1579007-3

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 | A    | Dimensions B | C  | Required Secondary Lock | Mating Tab Housing       |
|------------------|----------------|---------------|-------------|------|--------------|----|-------------------------|--------------------------|
| 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 – 6.0mm<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

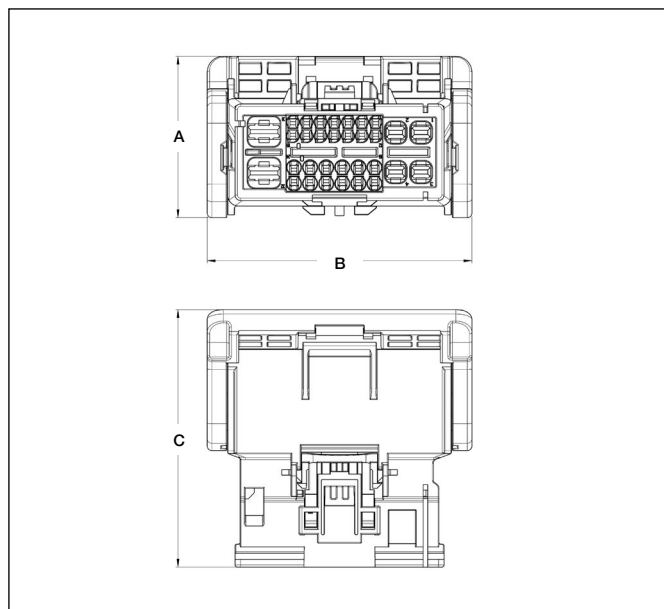
5-1579007-3

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 | A  | Dimensions (mm) B | C    | Required Secondary Lock | Mating Receptacle Housing |
|------------------|----------------|---------------|--------------|-------------|----|-------------------|------|-------------------------|---------------------------|
| 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                 |

## MCON Interconnection System Housings and Connectors

### MCON 1.2 Sealed Wire-to-wire or Bulkhead Housing

#### Technical Features

**No. of Positions:**  
10

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

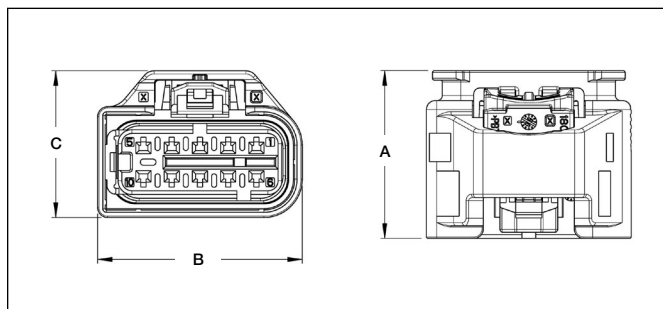
**Product Specification:**  
108-15398

**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 – 1.5mm<sup>2</sup>

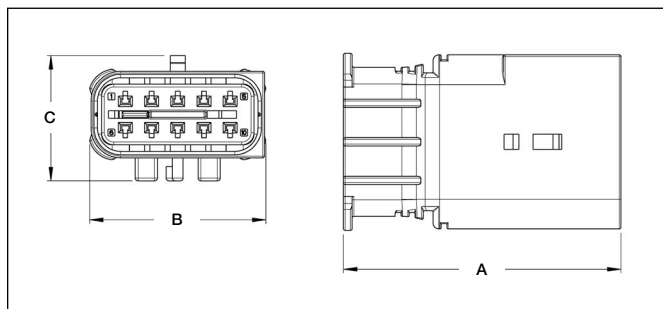
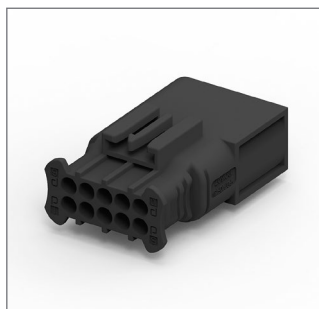
**Product Specification:**  
108-15398

**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

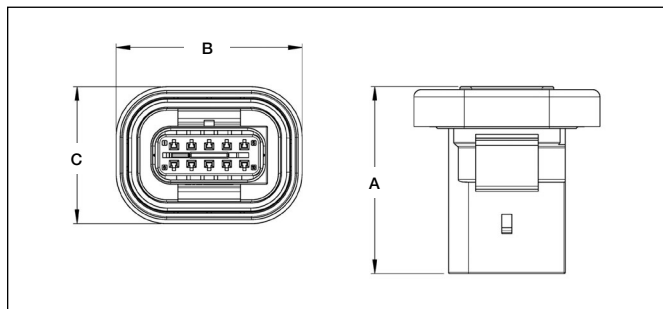
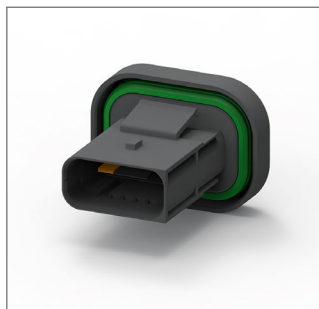
**No. of Positions:**  
10

**Wire Size Range:**  
0.35 – 1.5mm<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

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

##### Technical Features

**No. of Positions:**

18

**Wire Size Range:**

0.35 – 1.0mm<sup>2</sup>

**Product Specification:**

108-15431

**Application Specification:**

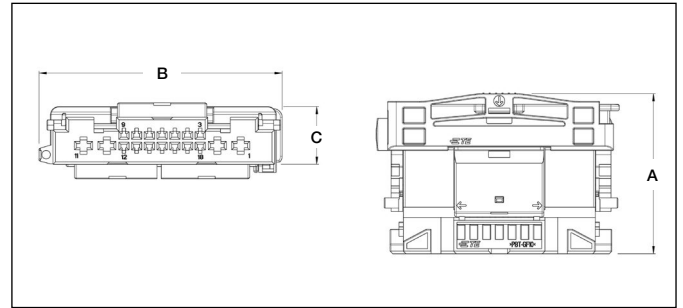
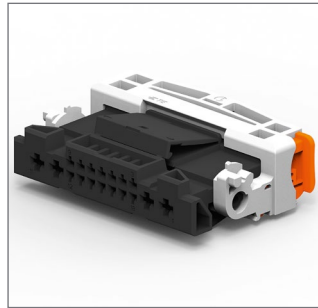
408-15014

**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 | A    | Dimensions B | C    | Mating Tab Housing |
|------------------|----------------|---------------|-------------|------|--------------|------|--------------------|
| 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 – 1.0mm<sup>2</sup>

**Product Specification:**

108-15431

**Application Specification:**

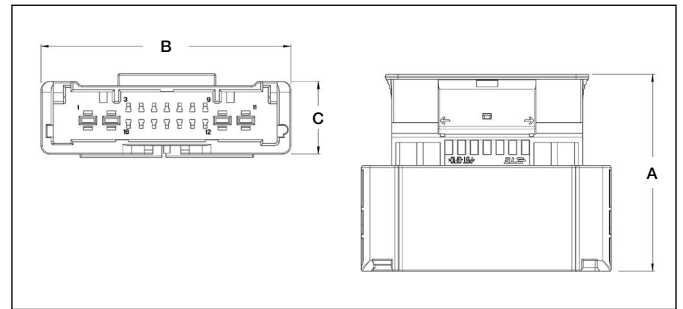
408-15014

**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 | A    | Dimensions (mm) B | C    | Mating Receptacle Housing |
|------------------|----------------|---------------|-------------|------|-------------------|------|---------------------------|
| 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)



## MCON Interconnection System

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#### Numerical Index

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| 1418844     | 6    | 1-1924067-9 | 22   | 1718350-3   | 6    |
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| 1718350     | 5    | 1-2236046-1 | 25   | 1718760-1   | 4    |
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| 1718762     | 3    | 1-2236896-1 | 19   | 1718762-1   | 4    |
| 2063537     | 6    | 1-2236896-5 | 19   | 1718762-2   | 4    |
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| 2121114     | 5    | 1-2236898-5 | 19   | 1719836-1   | 8    |
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| 2141864     | 3    | 1-2286417-1 | 17   | 1719840-1   | 8    |
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| 2141868     | 3    | 1418762-2   | 4    | 1719972-1   | 13   |
| 2141868     | 4    | 1418762-3   | 4    | 1801600-1   | 26   |
| 2141970     | 4    | 1418844-2   | 5    | 1801600-2   | 26   |
| 2177610     | 5    | 1418844-3   | 5    | 1801600-3   | 26   |
| 1-1456426-1 | 23   | 1418850-1   | 5    | 1801600-4   | 26   |
| 1-1456426-2 | 23   | 1418850-2   | 5    | 1801600-5   | 26   |
| 1-1456426-3 | 23   | 1418850-3   | 5    | 1801606-1   | 26   |
| 1-1456426-4 | 23   | 1452503-1   | 5    | 1801606-2   | 26   |
| 1-1564559-1 | 18   | 1452503-2   | 5    | 1801606-3   | 26   |
| 1-1564559-2 | 18   | 1452503-3   | 5    | 1801606-4   | 26   |
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## AMERICAS

### Argentina – Buenos Aires (Chile, Colombia, Ecuador, Venezuela)

Phone: +54-11-4733-2202  
Fax: +54-11-4733-2250

### Brasil – São Paulo

Phone: +55-11-2103-6105  
Fax: +55-11-2103-6204

### Canada – Toronto

Phone: +1-905-475-6222  
Fax: +1-905-474-5520  
Product Information Center:  
Phone: +1-905-470-4425  
Fax: +1-905-474-5525

### Mexico – Mexico City

Phone: +52-55-1106-0800  
+01-800-733-8926  
Fax: +52-55-1106-0910

### United States

Harrisburg, PA  
Phone: +1-717-564-0100  
Fax: +1-717-986-7575  
Product Information Center:  
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Fax: +1-717-986-7575

### For South American Countries not shown

Phone: +54-11-4733-2015  
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## ASIA/PACIFIC

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Phone: +61-2-9554-2600  
Fax: +61-2-9502-2556  
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### Indonesia – Jakarta

Phone: +62-21-2929-3800  
Fax: +62-21-2929-3899

### Japan – Kawasaki, Kanagawa

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Fax: +81-44-812-3207

### Korea – Seoul

Phone: +82-2-3415-4500  
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### Malaysia – Kuala Lumpur

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Fax: +60-3-7805-3066

### New Zealand – Auckland

Phone: +64-9-634-4580  
Fax: +64-9-634-4586

### Philippines – Makati City

Phone: +632-988-9400  
Fax: +632-659-7737

### People's Republic of China

Hong Kong  
Phone: +852-2738-8731  
Fax: +852-2735-0243

### Shanghai

Phone: +86-21-3398-0000  
Fax: +86-21-3398-1999

### Singapore – Singapore

Phone: +65-6482-0311  
Fax: +65-6482-1012

### Taiwan – Taipei

Phone: +886-2-8768-2788  
Fax: +886-2-8768-2268

### Thailand – Bangkok

Phone: +66-2-834-6200  
Fax: +66-2-937-1820

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Fax: +84-8-3823-8533

## EUROPE/MIDDLE EAST/AFRICA

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Fax: +43-1-905-60-1333  
Product Information Center:  
Phone: +43-1-905-60-1228  
Fax: +43-1-905-60-1333

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Phone: +375-17-237-47-94  
Fax: +375-17-237-47-94  
Product Information Center:  
Phone: +7-495-790-7902  
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### Czech Republic and Slovakia

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Phone: +420-541-162-108  
Fax: +420-541-162-104  
Product Information Center:  
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Fax: +420-541-162-104

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Fax: +20-2-24177647

### Estonia – Tartu

Phone: +372-5138-274  
Fax: +372-7400-779

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Cedex  
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Product Information Center:  
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Phone: +39-011-4012-111  
Fax: +39-011-4031-116  
Product Information Center:  
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**Lithuania** – Vilnius  
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**(Belgium, Luxemburg)**  
Phone: +31-73-6246-246  
Fax: +31-73-6212-365  
Product Information Center:  
Phone: +31-73-6246-999  
Fax: +31-73-6246-998

### Norway – Nesbru

Phone: +47-66-77-88-50  
Fax: +46-8-50-72-50-01  
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Phone: +46-8-50-72-50-00

### Poland – Warsaw

Phone: +48-22-4576-700  
Fax: +48-22-4576-720

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Phone: +40-21-311-3479/3596  
Fax: +40-21-312-0574

### Russia – Moscow

Phone: +7-495-790-7902  
Fax: +7-495-721-1893  
Product Information Center:  
Phone: +7-495-790-7902  
Fax: +7-495-721-1893

### Nizhniy Novgorod

Phone: +7-831-220-33-05/-06  
Fax: +7-831-220-33-39/-40

### Slovenia – Ljubljana

Phone: +386-1561-3270  
Fax: +386-1561-3240

### South Africa – Port Elizabeth

Phone: +27-41-503-4500  
Fax: +27-41-581-0440

### Spain – Barcelona

Phone: +34-93-291-0300  
Fax: +34-93-564-4819  
Product Information Center:  
Phone: +34-93-291-0366  
Fax: +34-93-209-1030

### Sweden – Upplands Väsby

Phone: +46-8-50-72-50-00  
Fax: +46-8-50-72-50-01  
Product Information Center:  
Phone: +46-8-50-72-50-00

### Turkey – Istanbul

Phone: +90-212-339-9200  
Fax: +90-212-339-9202

### Ukraine – Kiev

Phone: +380-44-206-2265  
Fax: +380-44-206-2264  
Product Information Center:  
Phone: +380-44-206-2265  
Fax: +380-44-206-2264

### United Kingdom and

### Ireland – Swindon

Phone: +44-8706-080208  
Fax: +44-208-954-6234  
Product Information Center:  
Phone: +44-800-267-666

**For further contact  
information or countries  
not shown please go to:**

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

Status 04/2013



**Tyco Electronics AMP GmbH**  
**a TE Connectivity Ltd. company**

AMPèrestrasse 12-14  
64625 Bensheim | Germany  
Phone: +49 (0)6251 133-0  
Fax: +49 (0)6251 133-1600



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