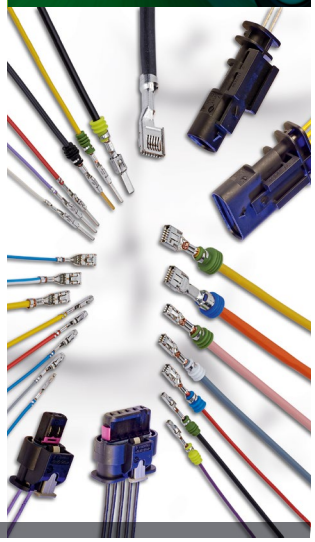








MCON INTERCONNECTION SYSTEM

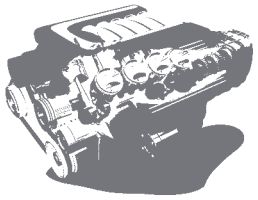
FOR THE AUTOMOTIVE INDUSTRY

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



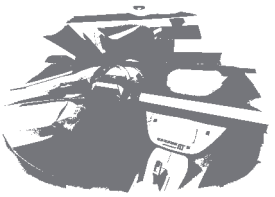
SAFETY & SECURITY SYSTEMS



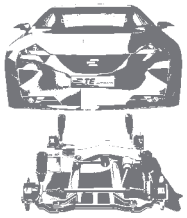
CONVENIENCE



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

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**

TE Products

www.te.com/en/products/product-landing.html

Product Information Center (PIC)

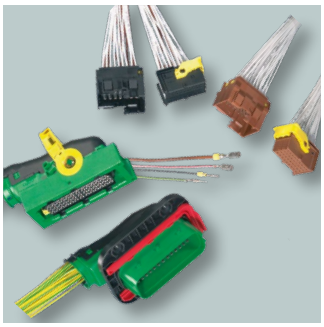
You can rely on TE Connectivity's PIC Team to provide you support for answers to your general information or technical questions in an efficient and effective manner.

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

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 nextgeneration hybrid and electric mobility and the charging infrastructure. TE Connectivity’s complete porfolio 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

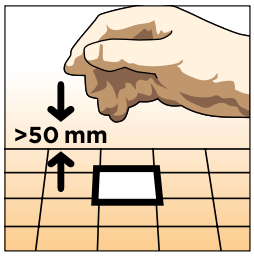
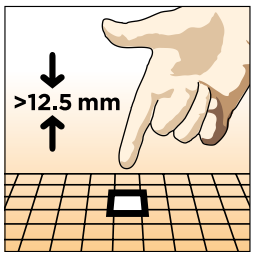
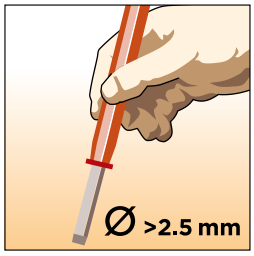
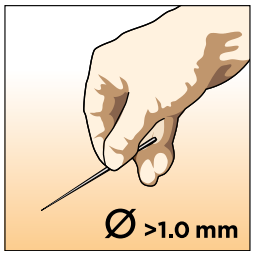
TE Connectivity‘s 24 V relay product line includes a broad range of robust and versatile relays for many diverse applications within trucks, buses, agricultural tractors, construction equipment and other heavy duty commercial vehicles. With increased contact gaps and other key design features, these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

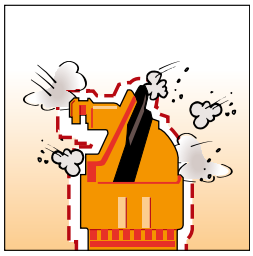


Infotainment

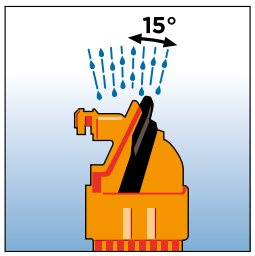
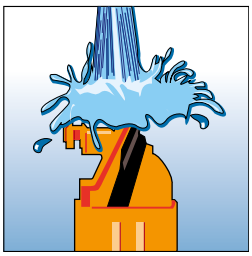
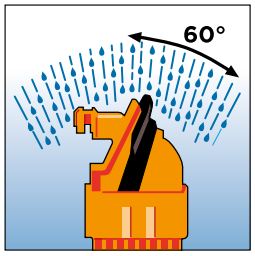
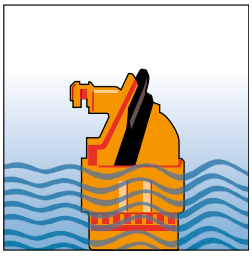
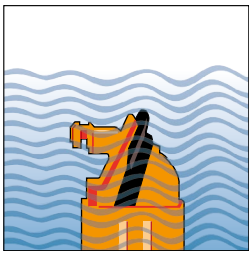
TE Connectivity offers a wide variety of infotainment solutions for consumer port connections, high data rate applications, next-generation harness architecture, board-to-board connections and vehicle-to-vehicle communication.

IP Code
Elements and Significance acc. to IEC 60529 and DIN 40050

1st Digit	Against Foreign Objects (incl. Dust)	
0		Not protected.
1		Protected against solid objects greater than 50 mm (ex. back of hand).
2		Protected against solid objects greater than 12.5 mm (ex. finger).
3		Protected against solid objects greater than 2.5 mm (ex. tool).
4		Protected against solid objects greater than 1.0 mm (ex. wire).

1st Digit	Against Foreign Objects (incl. Dust)	
5K		Dust protected.
6K		Dust tight.

IP Code
Elements and Significance acc. to IEC 60529 and DIN 40050

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).

RoHS* Ready
* Restriction on the Use of Hazardous Substances (RoHS)

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

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

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

Conversion Tables
AWG Conversion Table (Average Value)

AWG Code	Diameter (Inch)	Diameter (mm)	F (mm^2)
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	00.51	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	00.320	0.08
29	0.0113	00.287	0.0646
30	0.0100	00.254	0.0516
31	0.0089	00.226	0.04
32	0.0080	00.203	0.0324
33	0.0071	00.180	0.0255
34	0.0063	00.160	0.02
35	0.0056	00.142	0.0158
36	0.0050	00.127	0.0127
37	0.0045	00.114	0.01
38	0.0040	00.101	0.008
39	0.0035	00.089	0.0062
40	0.0031	00.079	0.0049
41	0.0028	00.071	0.00395
42	0.0025	00.064	0.00321
43	0.0022	00.056	0.00246
44	0.00198	00.050	0.00196
45	0.00176	00.045	
46	0.00157	00.040	
47	0.00140	00.036	
48	0.00124	00.031	
49	0.00110	00.028	
50	0.00099	00.025	

Remark: Starting from 0.03 mm2 (AWG 32) a wire can be crimped.

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MCON
Interconnection System

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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

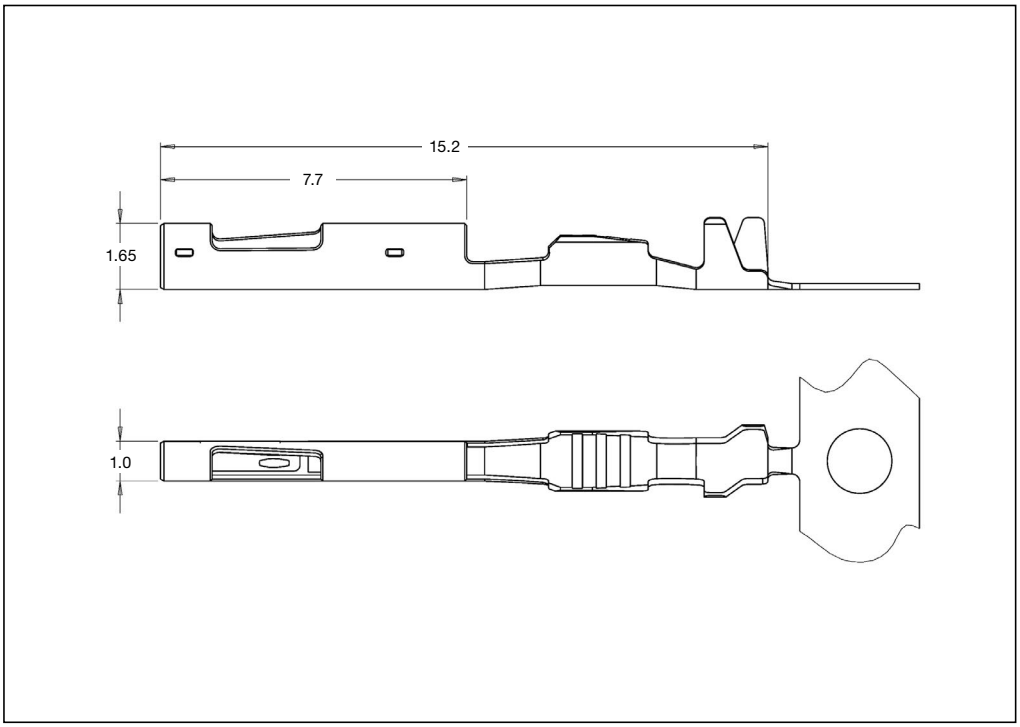
* MCON 0.50, MCON 1.2, MCON 2.8 and MCON 6.3 – same level for locking lance and secondary feature

** Except MCON 0.50 – clean body version

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

Receptacle Contacts





Technical Features

Contact Material:
CuNiSi/CuSn

Wire Size Range :
0.13 – 0.35 mm²

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 Recectaple Contact (SRC)

Wire Size Range (mm²)	Insulation Diameter (mm) FLR	Part Number	Material and Finish *)	Applicator ◆)	Hand Tool 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	

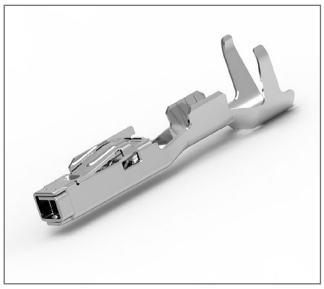
*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-2 = CuNiSi, selective gold plated
xxx-3 = CuNiSi, selective silver plated

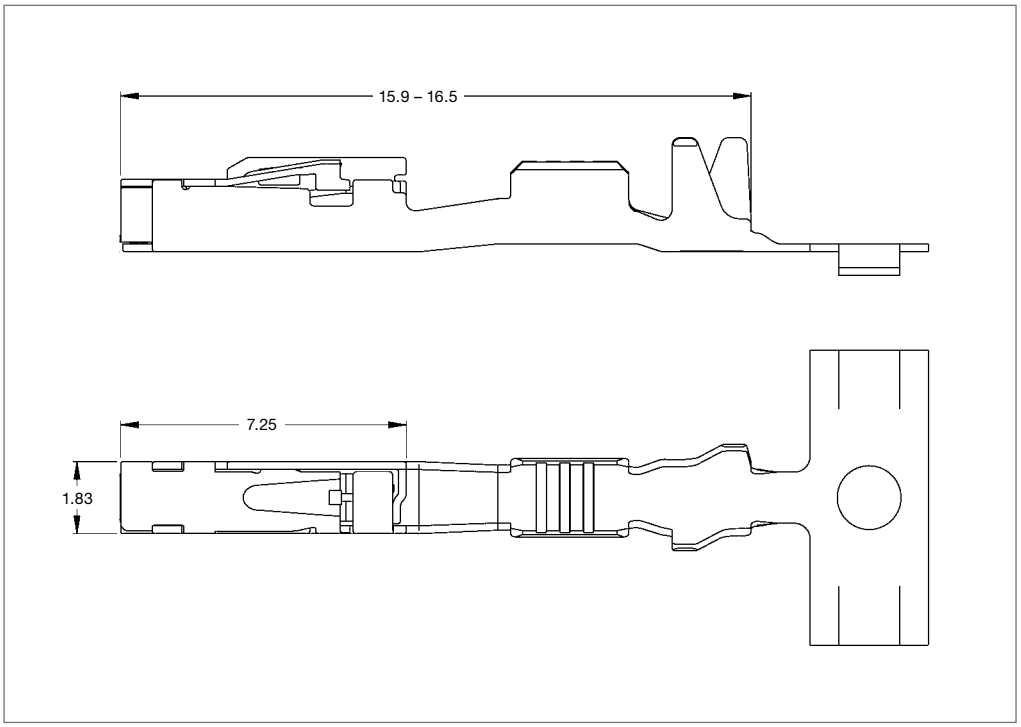
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts – Locking Lance (LL)





Technical Features

Contact Material:
CuSn / CuNiSi

Wire Size Range:
0.13 – 1.5mm²

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 Recectaple Contact (SRC)

Wire Size Range (mm²)	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 (mm²)	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 a) x-2266276-x b)	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"]

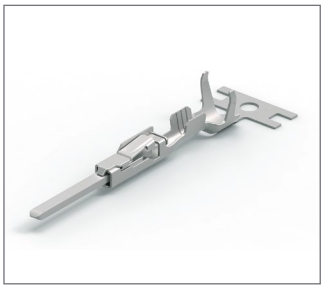
*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-2 = CuNiSi, selective gold plated
xxx-3 = CuNiSi, selective silver plated

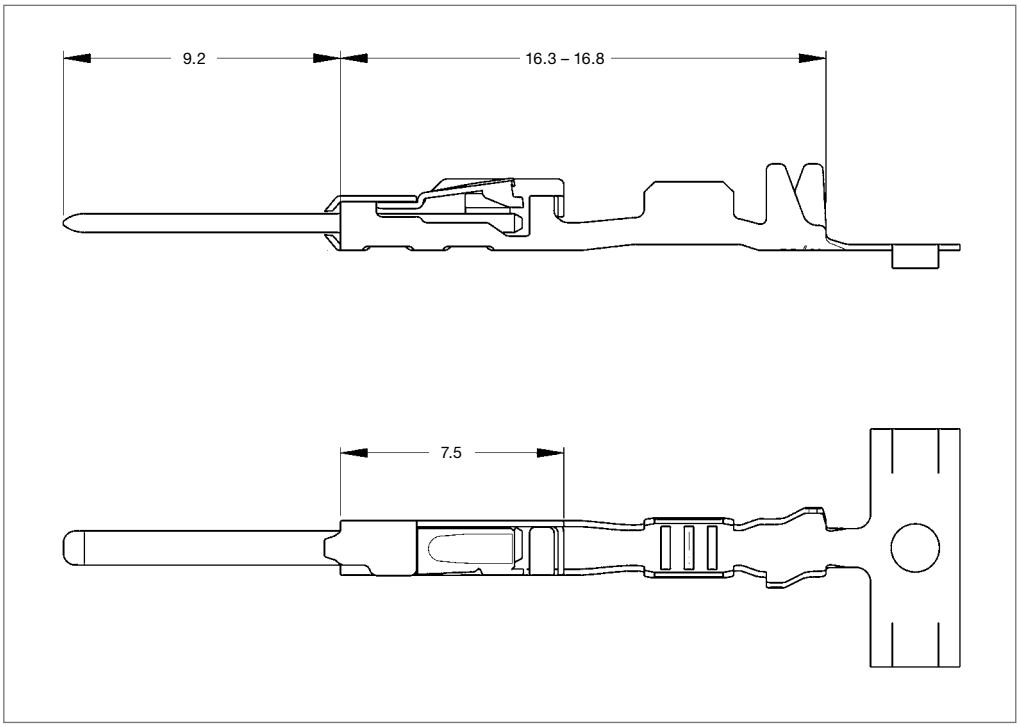
Note: All part numbers are RoHS and ELV compliant

◆) 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

Tab Contacts – Locking Lance (LL)





Technical Features

Contact Material:
CuSn/CuNiSi

Wire Size Range:
0.13-1.5mm²

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 Specification:
108-18782

Product Drawing:
1418754

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 (mm²)	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 (mm²)	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

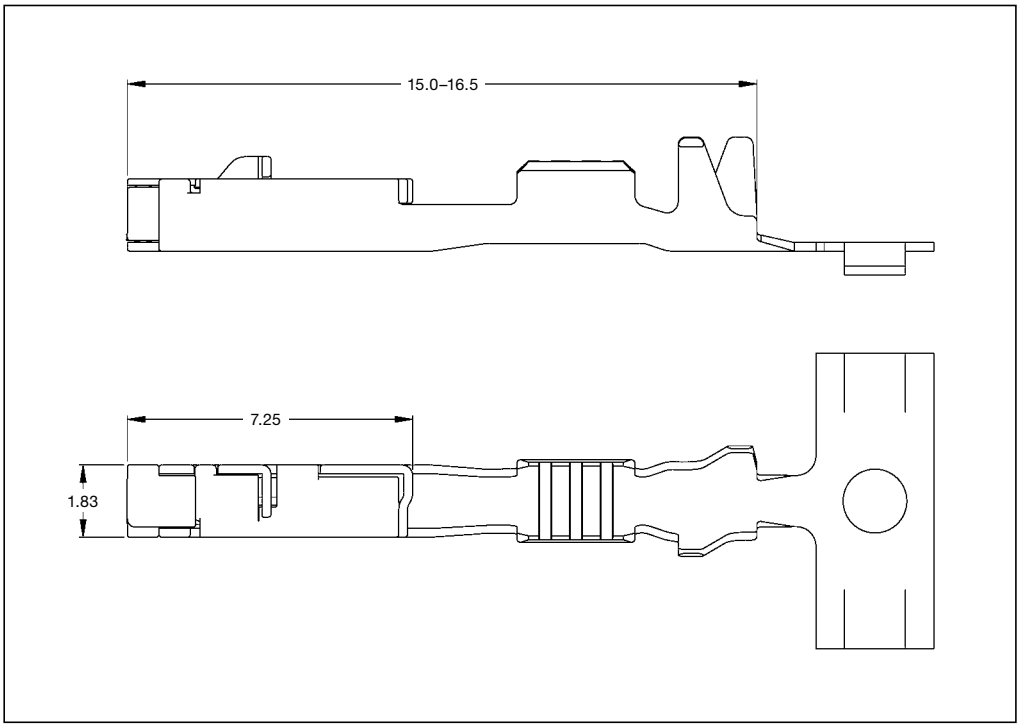
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts – Clean Body (CB)





Technical Features

Contact Material:
CuSn / CuNiSi

Wire Size Range:
0.25 – 1.5mm²

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 Recectaple Contact (SRC)

Wire Size Range (mm²)	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 – 075	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 (mm²)	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	539635-1	3-1579001-9	2121114-x
0.50 – 075	1.4 – 1.9	1670146	-1 /-2/ -3	x-2151981-x		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

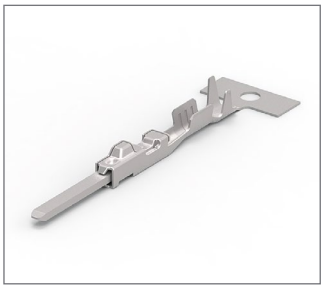
***) Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-2 = CuNiSi, selective gold plated
xxx-3 = CuNiSi, selective silver plated

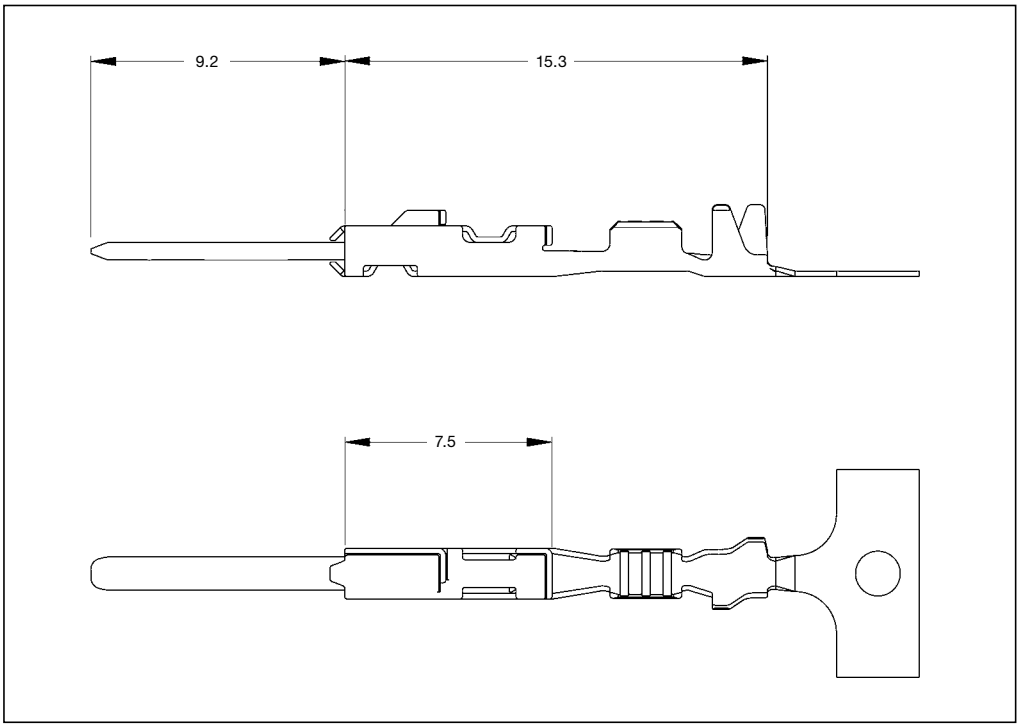
Note: All part numbers are RoHS and ELV compliant

◆) 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

Tab Contacts – Clean Body (CB)





Technical Features

Contact Material:
CuSn

Wire Size Range:
0.25 – 0.75mm²

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 Specification:
108-18782

Product Drawing:
1718398

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 (mm²)	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 – 075	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 (mm²)	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 – 075	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

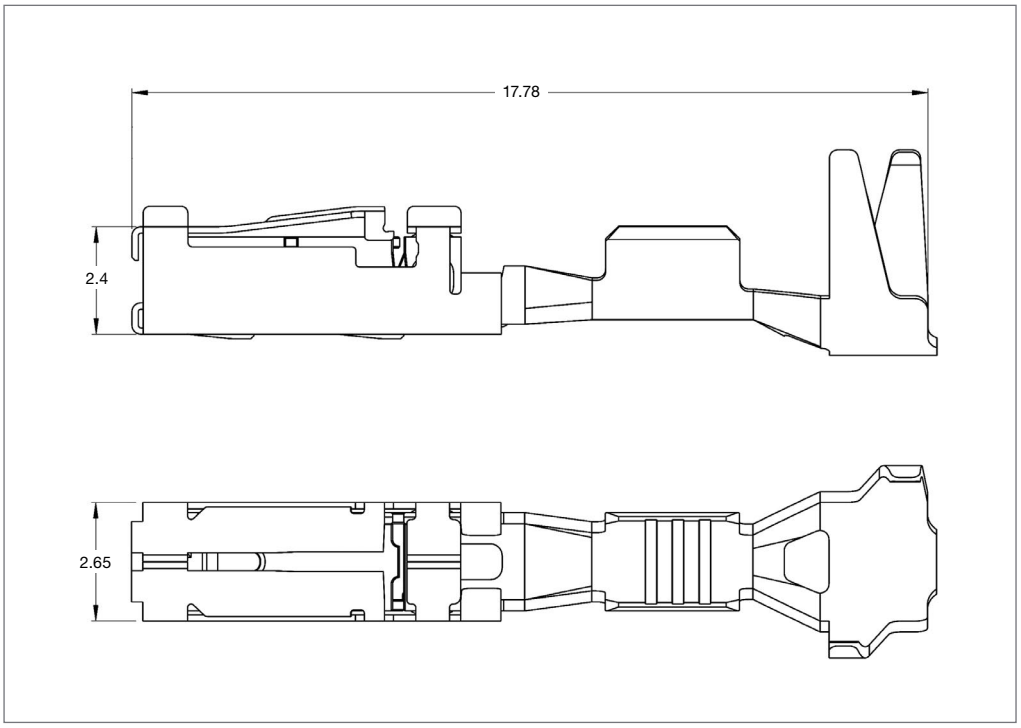
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts – Locking Lance (LL)





Technical Features

Wire Size Range:
0.25 – 1.0mm²

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 Specification:
108-94432

Product Drawing:
C-2282325

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 (mm²)	Insulation Diameter (mm) FLR	Part Number	Material 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		

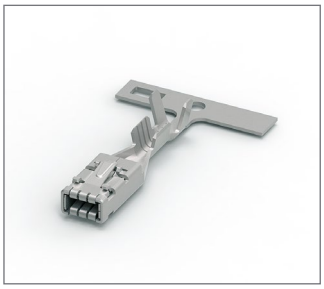
*) **Material and Finish:** xxx-3 = CuNiSi, selective silver plated

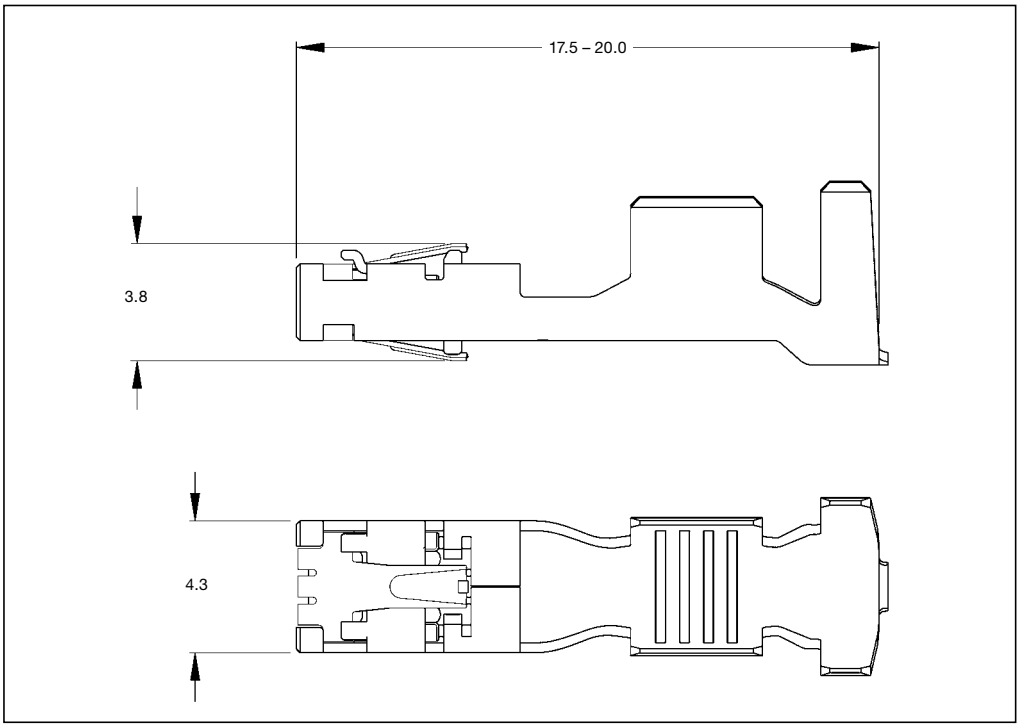
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts – Locking Lance (LL)





Technical Features

Contact Material:
CuSn/CuNiSi

Wire Size Range:
0.20 – 4.0mm²

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)

Insertin Force:
Max. 7 N

Extraction Force:
Max. 6 N

Extraction Tool*:
5-1579008-2

Product Specification:
108-94002

Product Drawing:
1719797

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 (mm²)	Insulation Diameter (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 a) x-2151604-x b)		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 2.5mm² ACOME Wire only (preliminary)

Receptacle Contacts with Single Wire Seal (SWS) System

Wire Size Range (mm²)	Insulation Diameter (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 a) x-2151582-x b)		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 2.5mm² ACOME Wire only

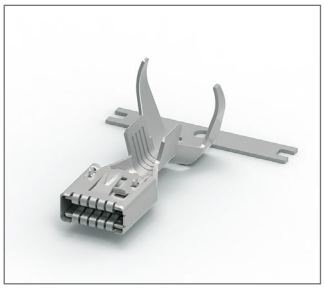
*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-3 = CuNiSi, selective silver plated

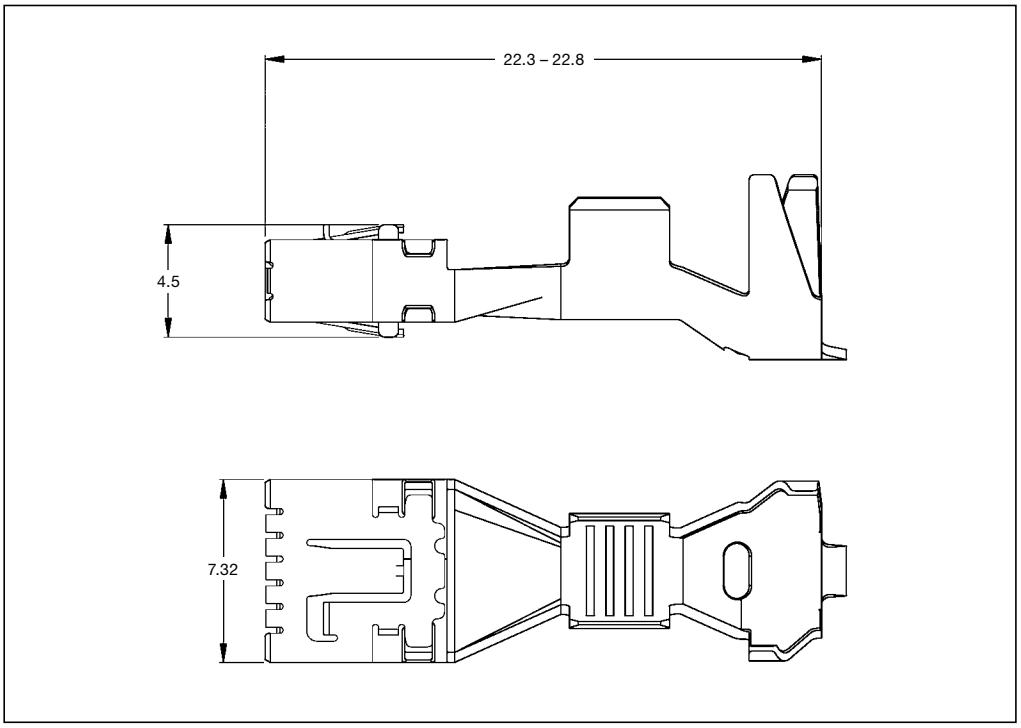
Note: All part numbers are RoHS and ELV compliant

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

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

Receptacle Contacts – Locking Lance (LL)





Technical Features

Contact Material:
CuSn/CuNiSi

Wire Size Range:
>2.5 – 6.0mm^2

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 (mm^2)	Insulation Diameter (mm) FLR	Material 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

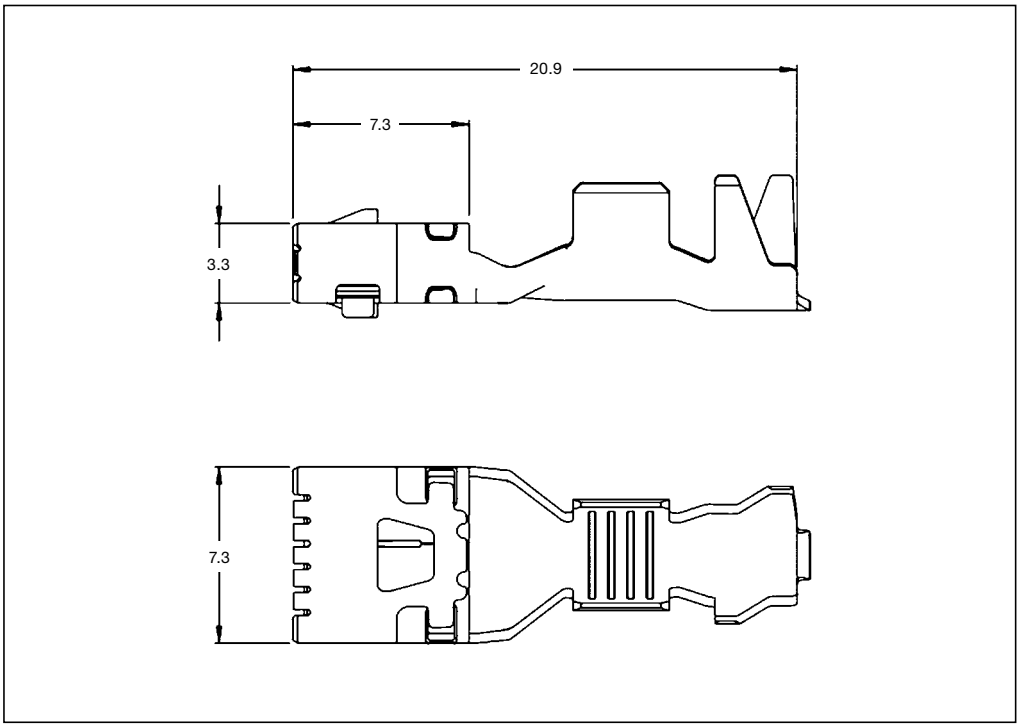
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts – Clean Body (CB)





Technical Features

Contact Material:
CuSn/CuNiSi

Wire Size Range:
>2.5 – 6.0mm^2

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 Specification:
108-94149

Product Drawing:
1564888

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 (mm^2)	Insulation Diameter (mm) FLR	Material 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		

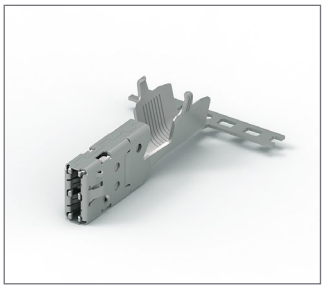
*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-3 = CuNiSi, selective silver plated

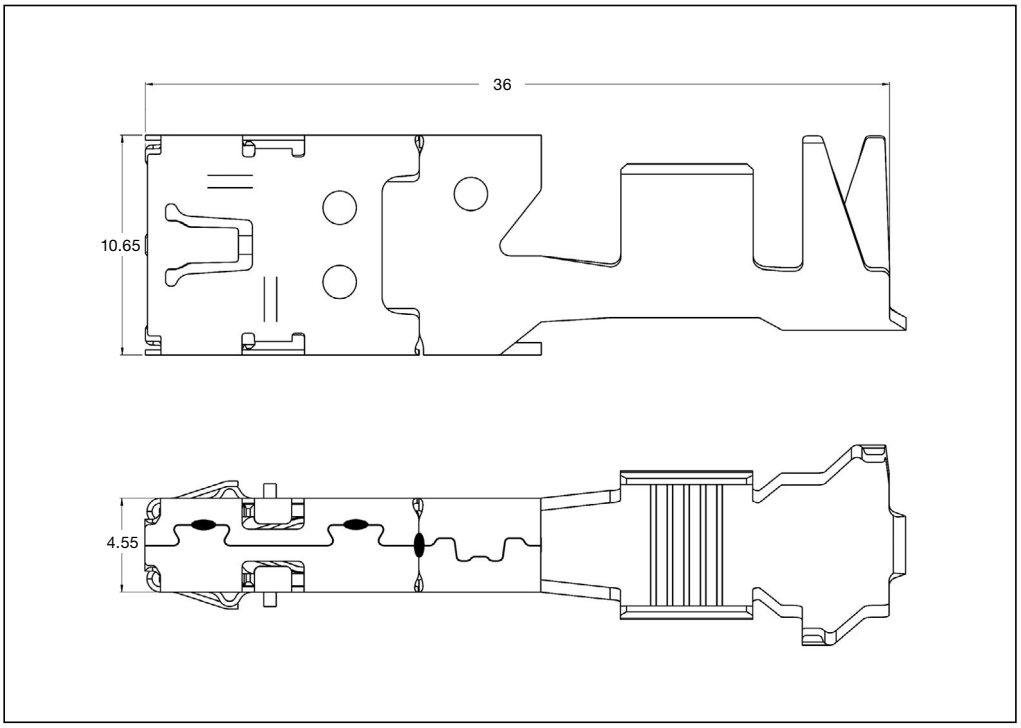
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts





Technical Features

Wire Size Range:
>2.5 – 16mm^2

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^2)	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^2)	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		

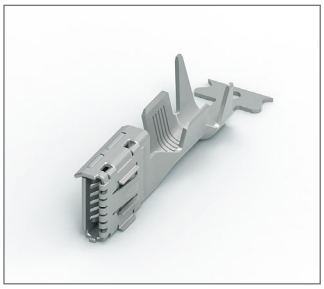
*) **Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-3 = CuNiSi, selective silver plated

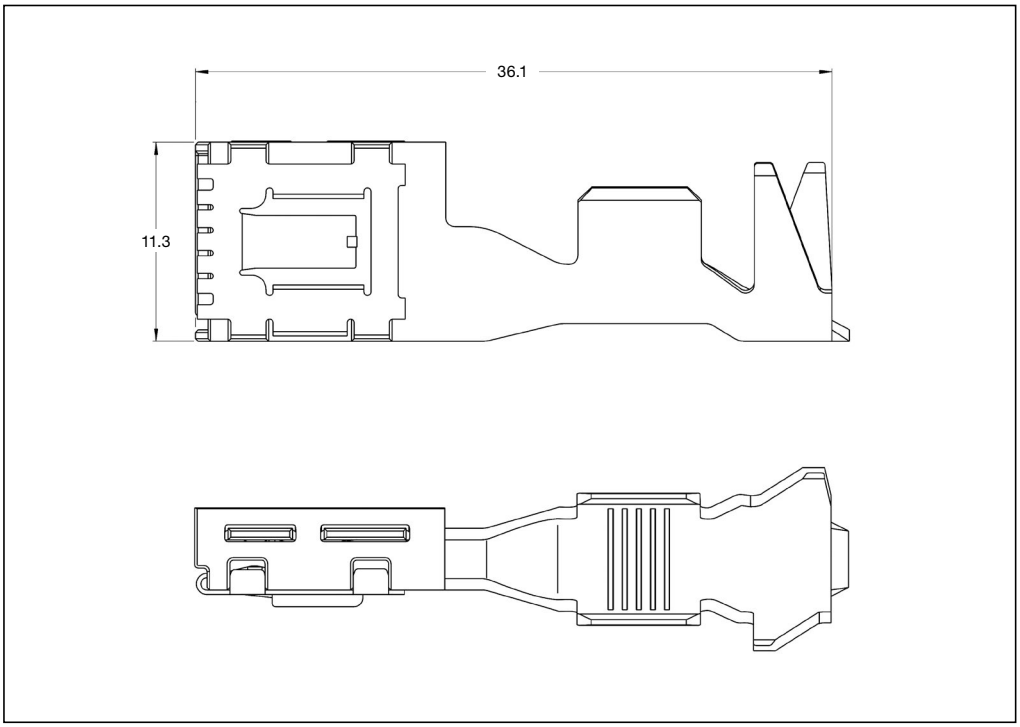
Note: All part numbers are RoHS and ELV compliant

◆) 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

Receptacle Contacts





Technical Features

Contact Material:
CuNiSi/CuSn

Wire Size Range:
>10 – 16 mm^2

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 (mm^2)	Insulation Diameter (mm) FLR	Part Number	Material 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		

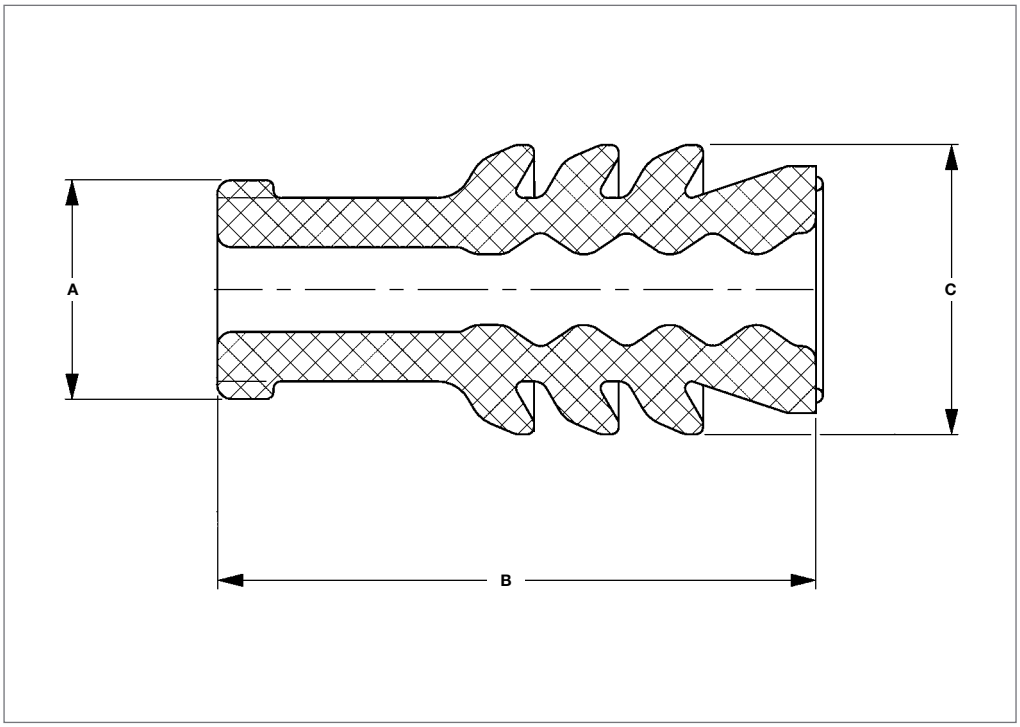
***) Material and Finish:** xxx-1 = CuNiSi, pre-tin plated
xxx-3 = CuNiSi, selective silver plated

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

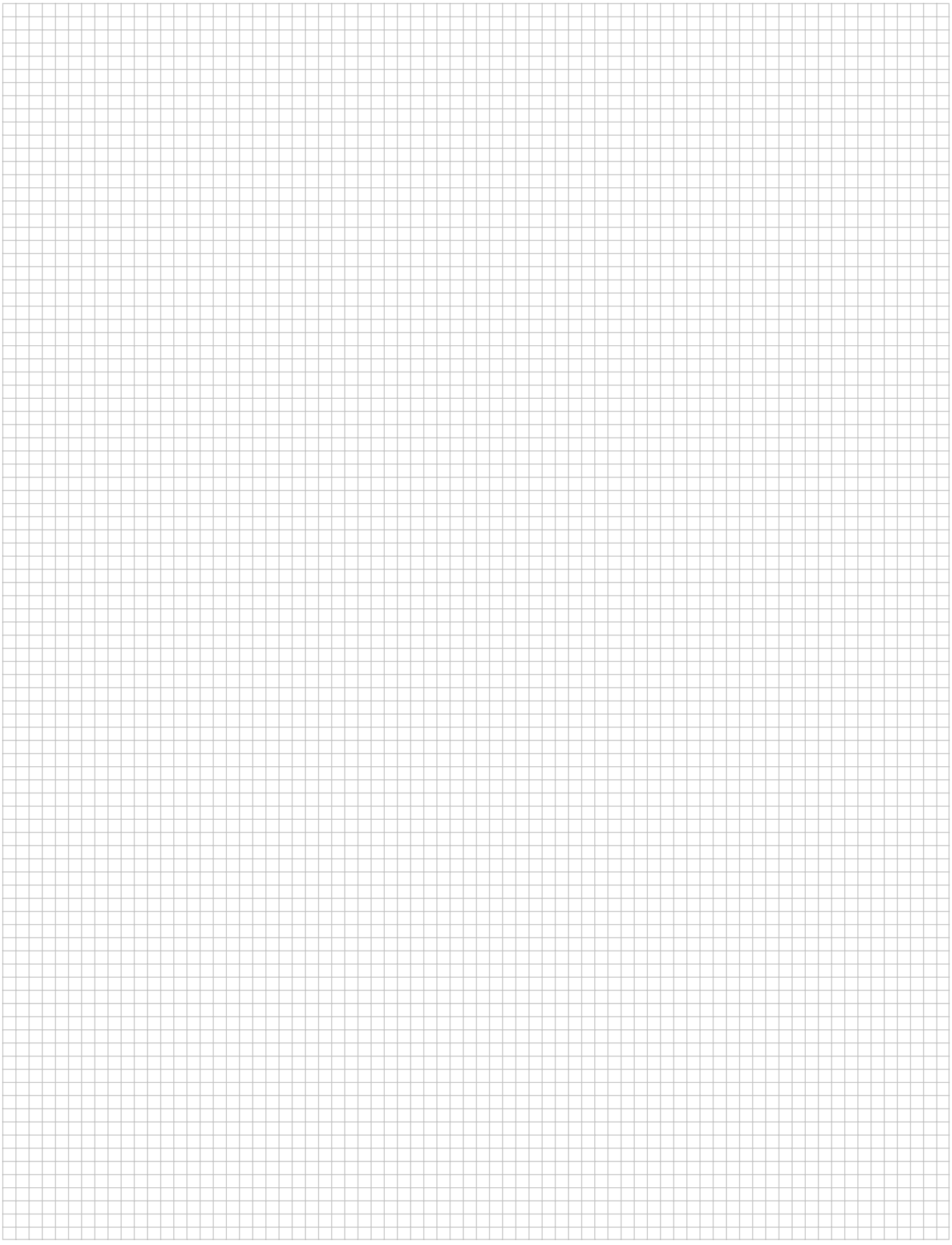
Single Wire Seals and Sealing Plugs for MCON Contacts

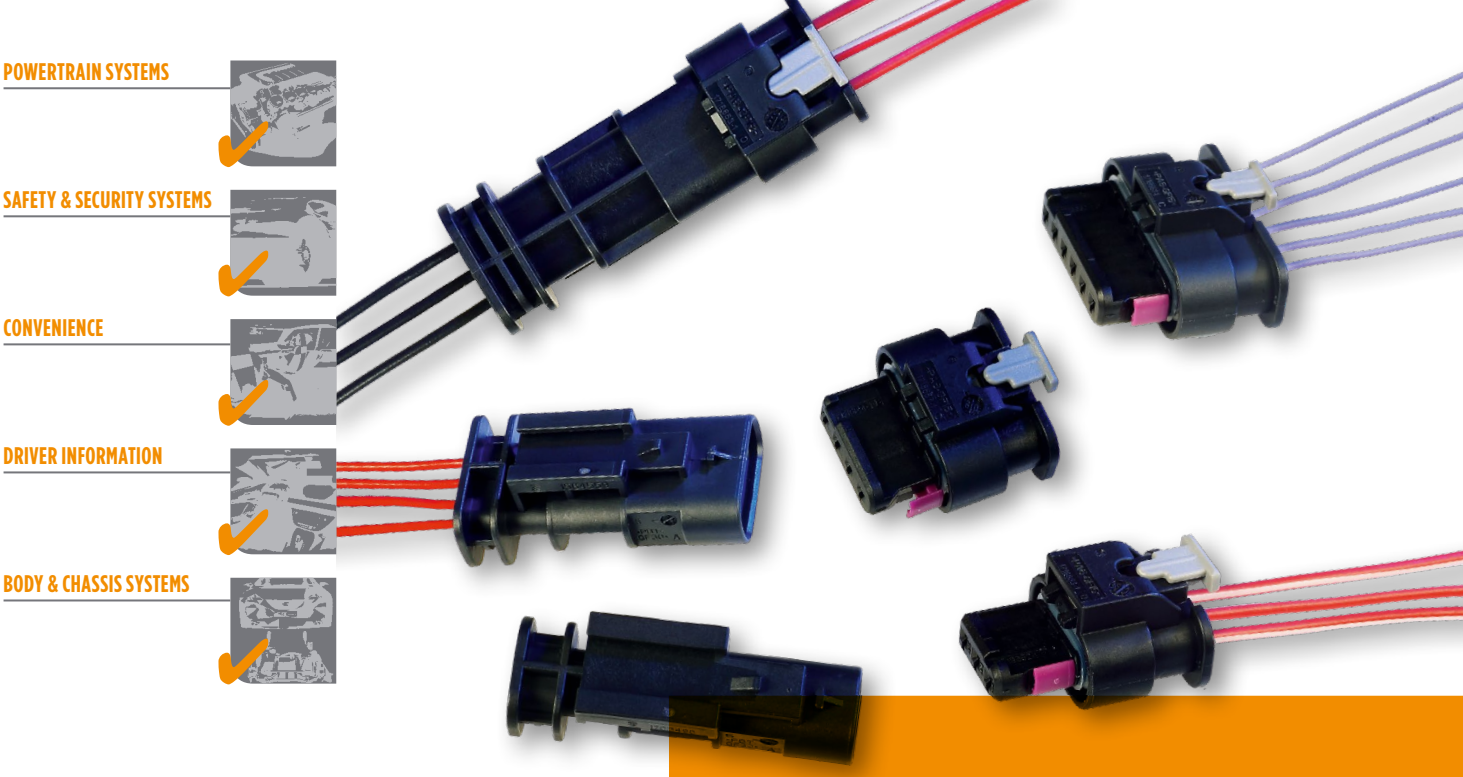


Single Wire Seals and Sealing Plugs for MCON Contacts

Cavity Diameter (mm)	Insulation Diameter (mm) FLR	Color	Part Number	Dimensions A	Dimensions B	Dimensions 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 whithstand 150° C for 1008 hours.





HOUSINGS AND CONNECTORS

MCON INTERCONNECTION SYSTEM INTRODUCTION

MCON connectors offer high reliability for use in the automotive industry

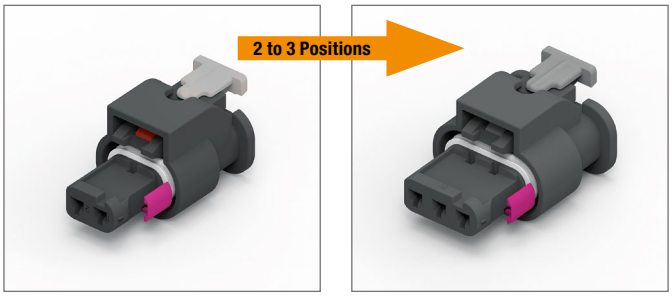
The new generation MCON connector system offers receptacle and tab housings with capability for waterproofing and resistance to conditions of extreme vibration.

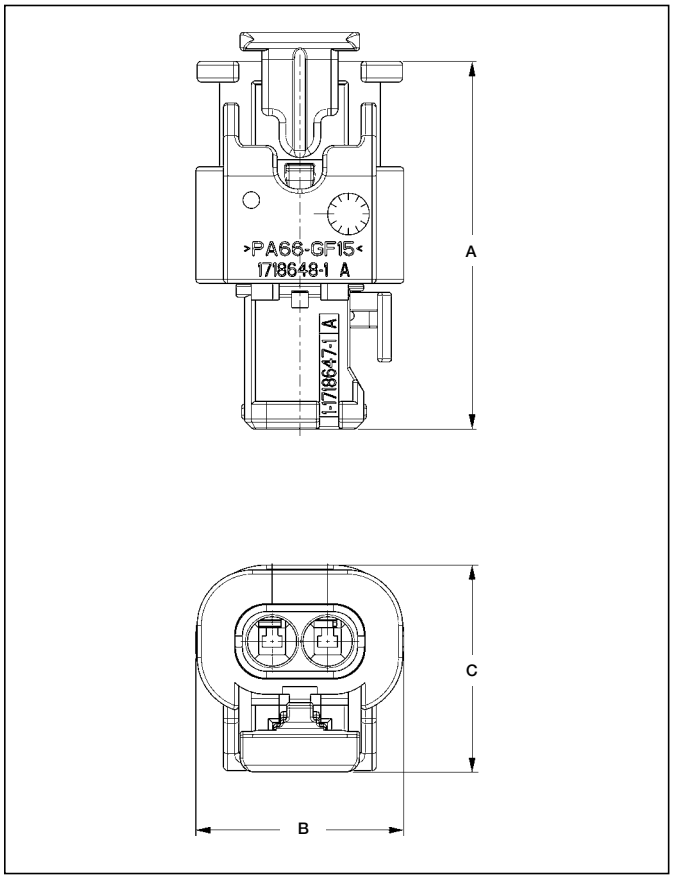
The system is designed for electronic and electrical applications in motor vehicles, where vibrations and mechanical stress, in the long term, can affect the quality on the contact system.

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

Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 to 3 Positions – up to 125° C





Technical Features

Wire Size Range:
max. 1.0mm²

Total Temperature Range:
125° C

Product Specification:
108-18969

Application Specification:
114-18861

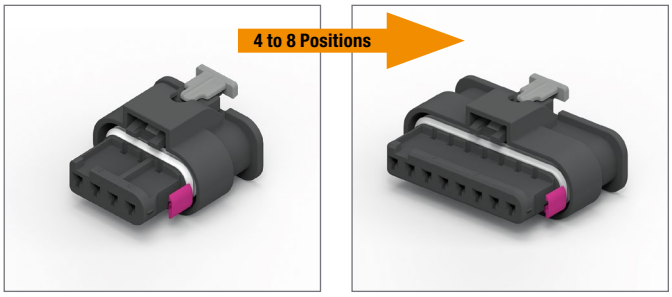
Extraction Tool:
5-1579007-3

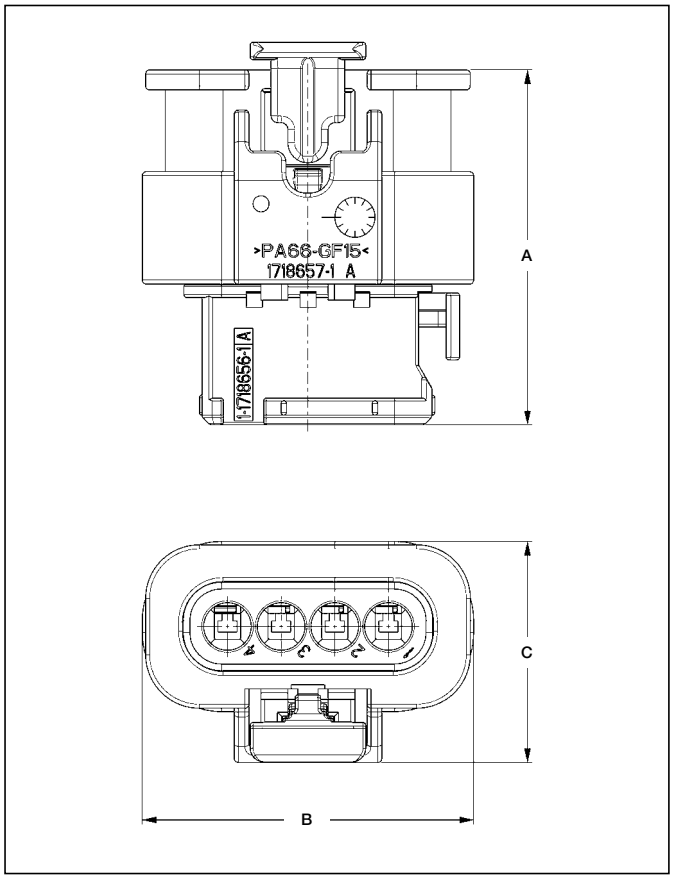
Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 to 3 Positions

No. of Positions	Keying Options	Housing Color	CPA Yes / No	180° turned Outer Housing	Part Number	Dimensions (mm) A	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		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		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		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

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^2

Total Temperature Range:
125° C

Product Specification:
108-18969

Application Specification:
114-18861

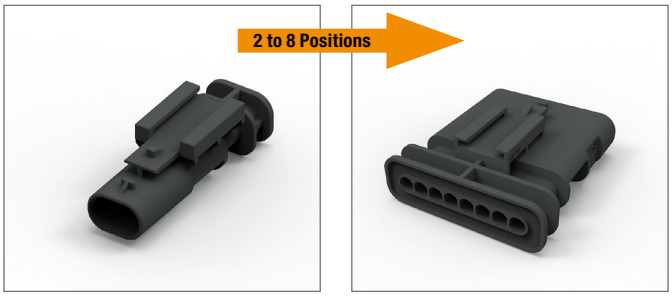
Extraction Tool:
5-1579007-3

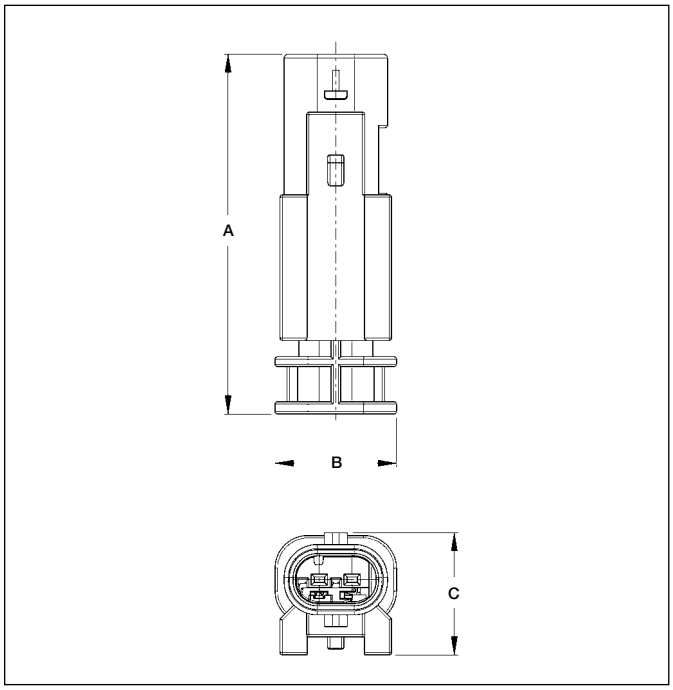
Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 4 to 8 Positions

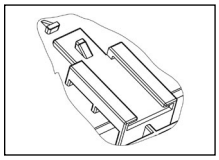
No. of Positions	Keying Options	Housing Color	CPA Yes / No	180° turned Outer Housing	Part Number	Dimensions (mm) A	B	C	Mating Tab Housing
4	A	Black	Yes	–	1-1718645-1	26.5	24.7	16.5	1-1564559-x
			No		1-1670918-1				1-1564559-x
			No	Yes	1-2286471-1				N/A
	B	Natural	Yes	–	2-1718645-1				2-1564559-x
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

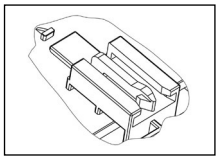
* on request

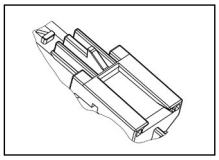
Sealed MCON 1.2 Tab Housing for Locking Lance Contacts - 2 to 8 Positions – up to 125° C






X-XXXXXXX-1


X-XXXXXXX-2


X-XXXXXXX-3

Technical Features

Wire Size Range:
max. 1.0mm²

Total Temperature Range:
125°C

Product Specification:
N/A

Application Specification:
114-18910-1

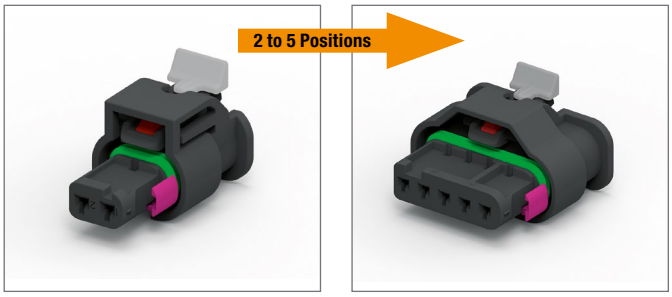
Extraction Tool:
1-1579028-5

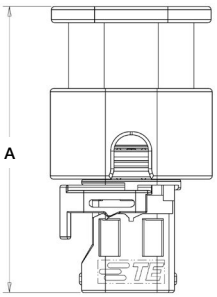
Sealed MCON 1.2 Tab Housing for Locking Lance Contacts - 2 to 8 Positions

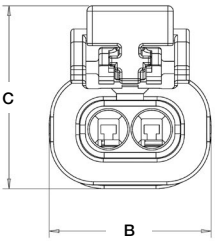
No. of Positions	Keying Options	Housing Color	Part Number	Dimensions (mm) A	B	C	Mating Rec Housing
2	A	Black	1-1703498-1	44	14.8	14.95	1-1718643-1 or 1-1670916-1
			1-1703498-2			17.05	
			1-1703498-3			17.1	
	B	Gray	2-1703498-1			14.95	2-1718643-1 or 2-1670916-1
			2-1703498-2			17.05	
			2-1703498-3			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^2

Total Temperature Range:
150° C

Product Specification:
108-18969

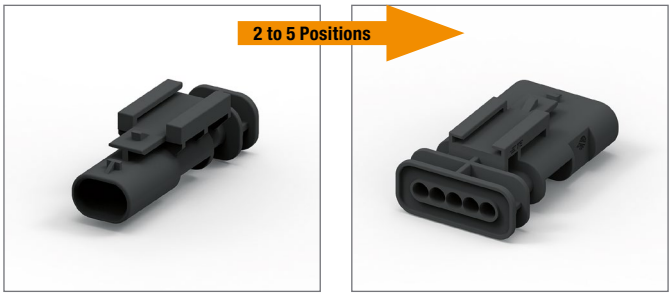
Application Specification:
114-18861

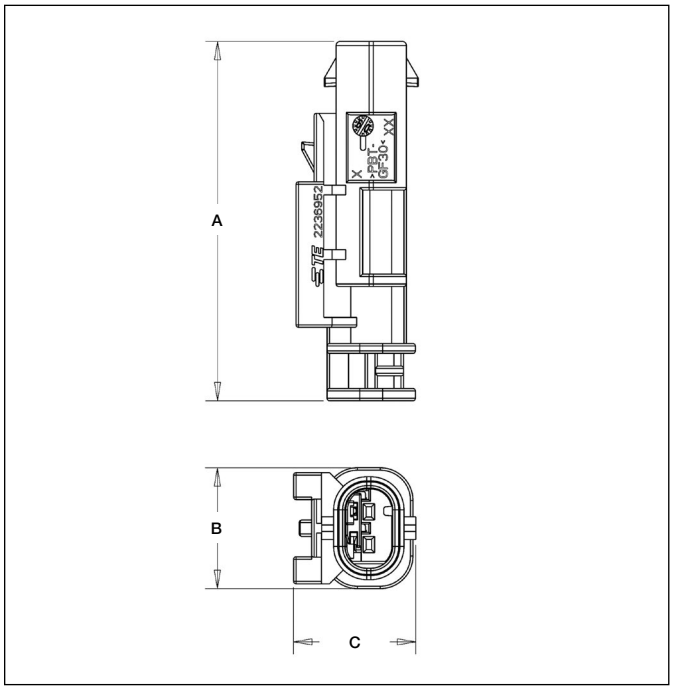
Extraction Tool:
5-1579007-3

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) A	B	C	Mating Tab Housing
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^2

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) A	B	C	Mating Rec Housing
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

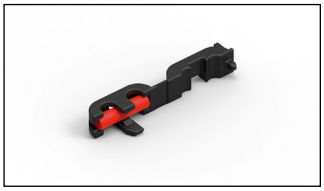
Sealed MCON 1.2 V4 Series / HPF 1.2 Series - 2 Positions – up to 150° C

Short Shroud



Long Shroud





Technical Features

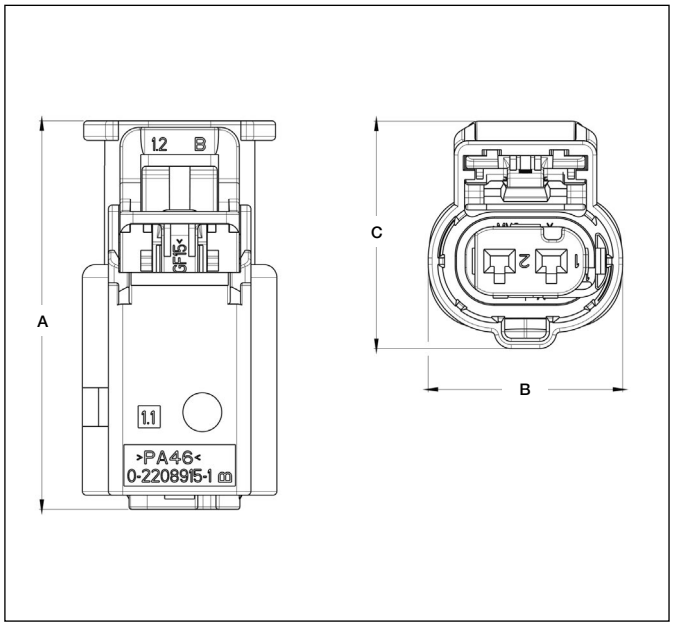
Wire Size Range:
max. 1.0mm²

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

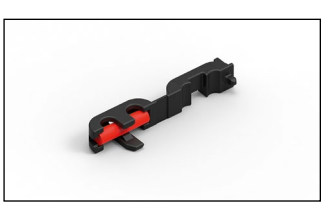
No. of Positions	Keying Options	Housing Color	Long / Short Shroud	Vibration Level	Part Number	A	Dimensions (mm) B	C	Used Cable Fixation	Used Terminal System
2	A	Black	Long	V4	5-2208918-1	30	15.0	16.05	2208939-1	MCON 1.2 LL
			Short		5-2236115-1					
	B	Brown	Long		5-2208918-2					
			Short		5-2236115-2					

Short Shroud



Long Shroud





Technical Features

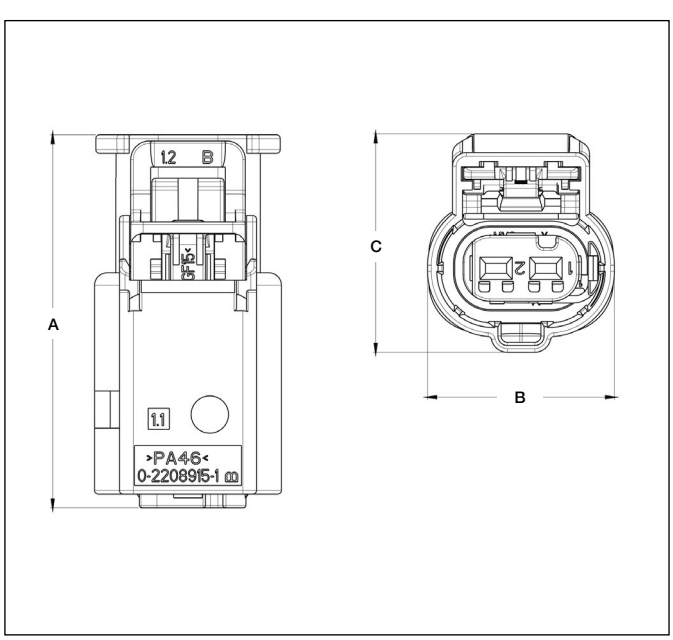
Wire Size Range:
max. 1.0mm²

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) 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					

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

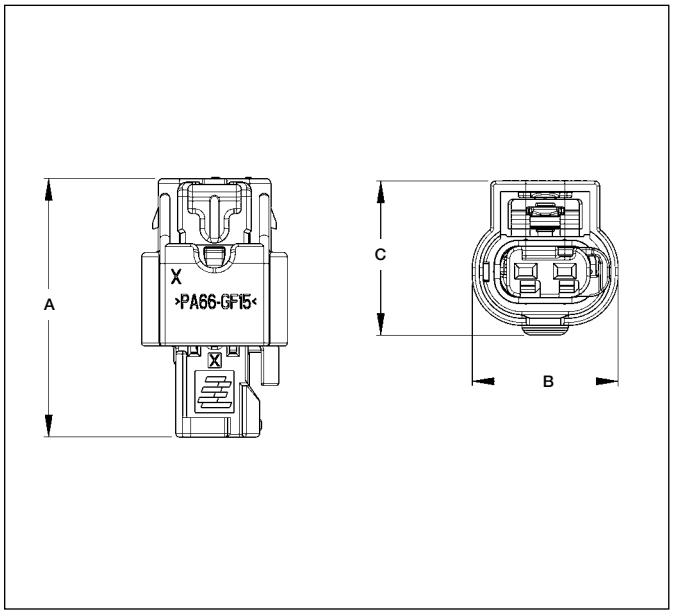
Technical Features

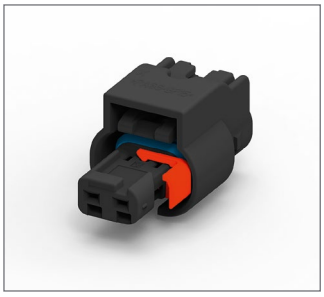
Wire Size Range:
max. 1.0mm² (20 –16 AWG)

Total Temperature Range:
125° C

Product Specification:
N/A

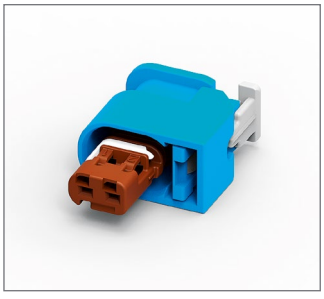
Application Specification:
408-8928





Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

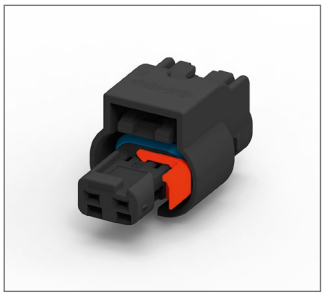
No. of Positions	Keying Options	Housing Color	CPA Yes / No	Part Number	Dimensions (mm) A	B	C
2	A	Black	No	1-1924067-1	26.5	15	15.8
			Yes / Violet	1-1924067-9			
			Yes / Red	4-1924067-1			
	B	Natural	No	1-1924067-2			
			Yes / Violet	2-1924067-0			
			Yes / Red	4-1924067-2			
	C	Blue	No	1-1924067-3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

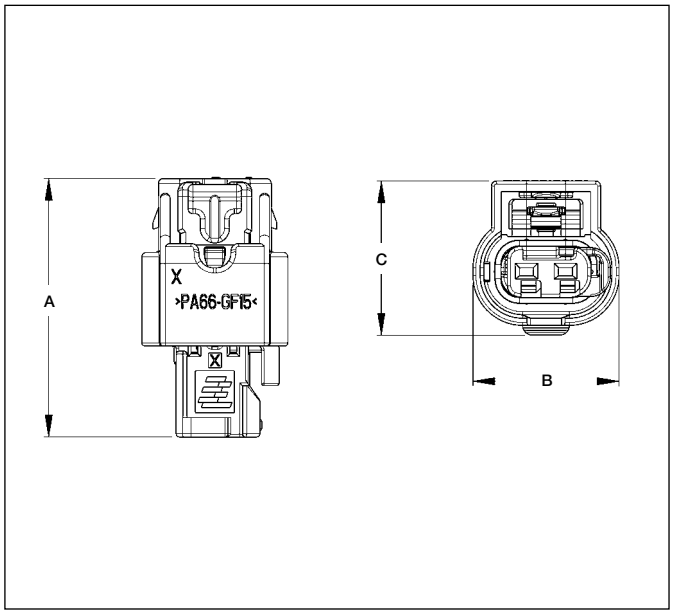


Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts - Low Profile Sidelatch

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

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





Technical Features

Wire Size Range:
max. 1.0mm^2 (20–16 AWG)

Total Temperature Range:
150° C

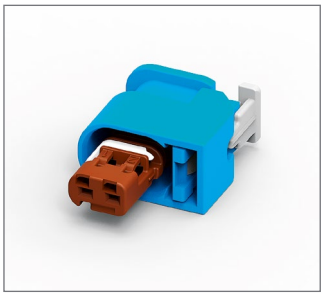
Product Specification:
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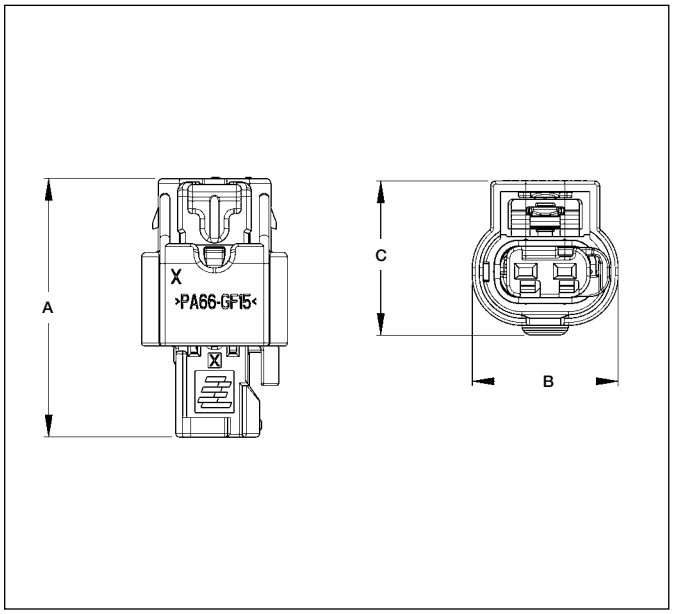
Application Specification:
408-8928

Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

No. of Positions	Keying Options	Housing Color	CPA Yes / No	Part Number	Dimensions (mm) A	B	C
2	A	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^2 (20 – 16 AWG)

Product Specification:
N/A

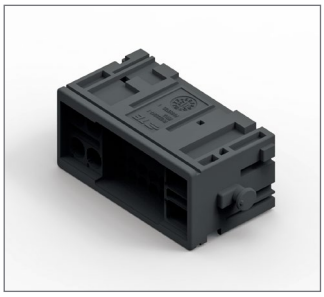
Total Temperature Range:
150° C

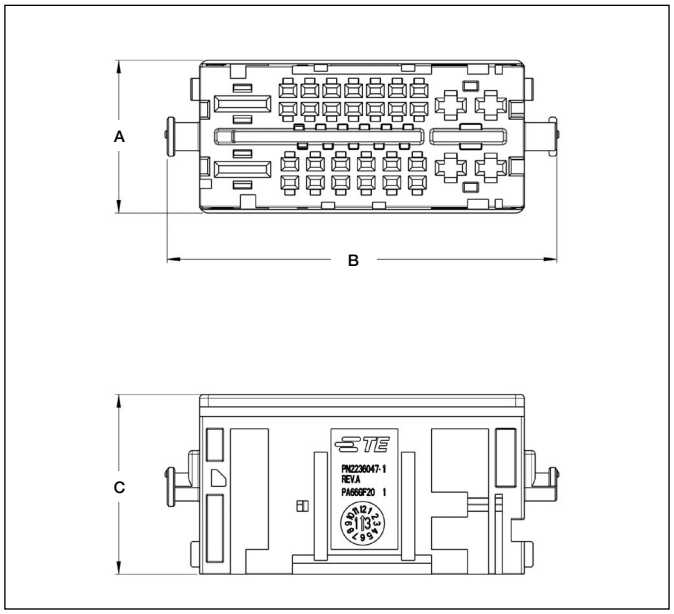
Application Specification:
408-8928

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	Dimensions (mm) A	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^2

Product Specification:
108-20329

Application Specification:
411-20134

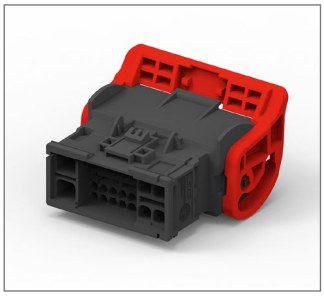
Used Terminals Systems:
MCON 1.2
MCON 2.8
AMP MCP 6.3

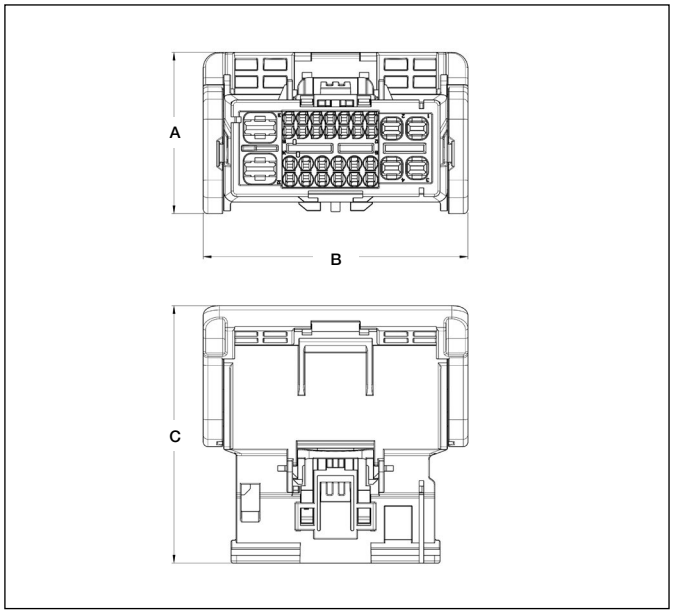
Extraction Tool:

MCON 1.2	5-1579007-3
MCON 2.8	5-1579008-2
AMP MCP 6.3	1-1579007-3

32 Positions Mixed Receptacle Housing

No. of Positions	Keying Options	Housing Color	Part Number	Dimensions A	Dimensions B	Dimensions 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^2

Product Specification:
108-20329

Application Specification:
411-20134

Used Terminals Systems:
MCON 1.2 Tab
Tab 2.8 x 0,8
Tab 5.8 x 0,8

Extraction Tool:

MCON 1.2	5-1579007-3
Tab 2.8	1-1579007-6
Tab 5.8	1-1579007-6

32 Positions Mixed Tab Housing

No. of Positions	Keying Options	Housing Color	CPA Yes / No	Part Number	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) 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 1.2 Sealed Wire-to-wire or Bulkhead Housing

Technical Features

No. of Positions:
10

Wire Size Range:
0.35 – 1.5mm^2

Product Specification:
108-15398

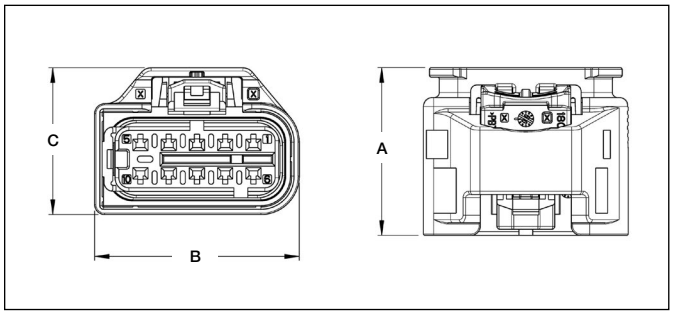
Application Specification:
411-15748

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) A	B	C	Mating Tab Housing
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^2

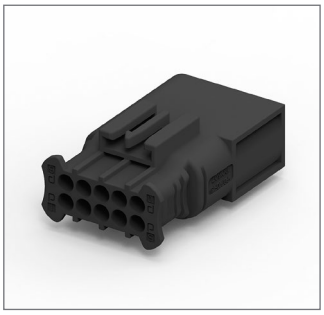
Product Specification:
108-15398

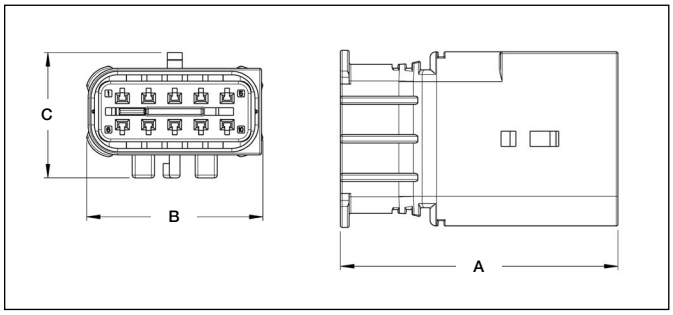
Application Specification:
411-15748

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) A	B	C	Mating Tab Housing
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

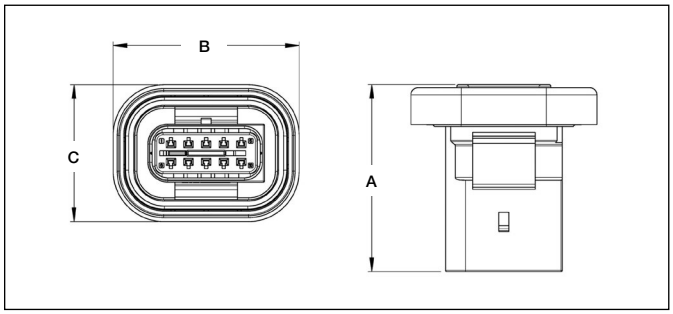
Wire Size Range:
0.35 – 1.5mm^2

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) A	B	C	Mating Rec Housing
10	A	Black	1801610-1	47.7	47.5	34.9	1801600-1
	B	Grey	1801610-2				1801600-2

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

Technical Features

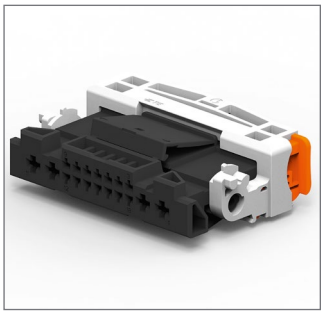
No. of Positions:
18

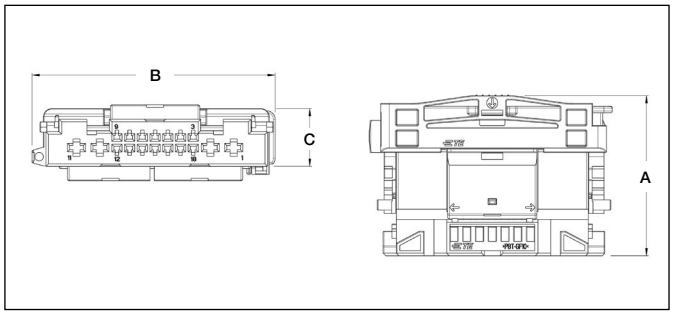
Wire Size Range:
0.35 – 1.0mm^2

Product Specification:
108-15431

Application Specification:
408-15014

Extraction Tool:
5-1579007-3
5-1579008-2
8-1579018-4





18 Positions MCON 1.2 + 2.8 Mixed Receptacle Housing

No. of Positions	Keying Options	Housing Color	Part Number	Dimensions A	Dimensions B	Dimensions 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

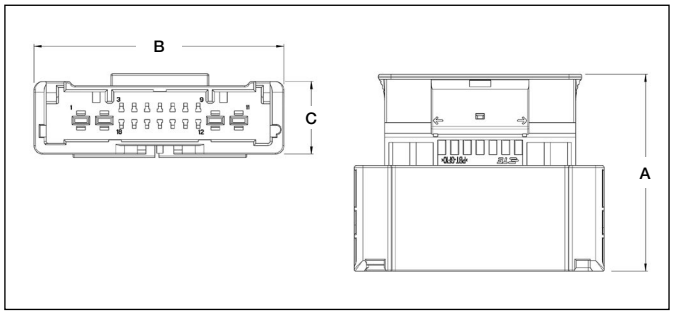
Wire Size Range:
0.35 – 1.0mm^2

Product Specification:
108-15431

Application Specification:
408-15014

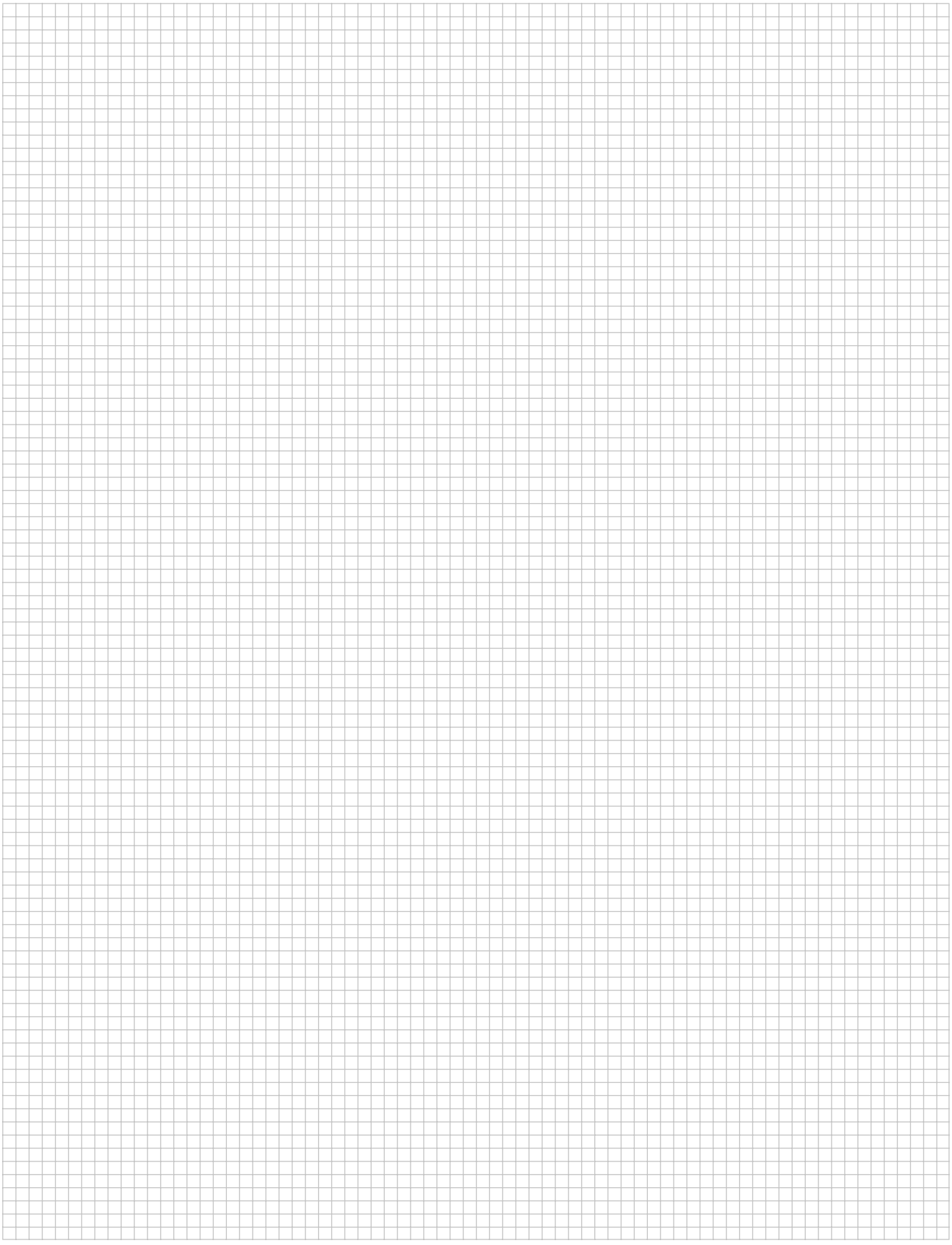
Extraction Tool:
5-1579007-3
1-1579007-6
8-1579018-4





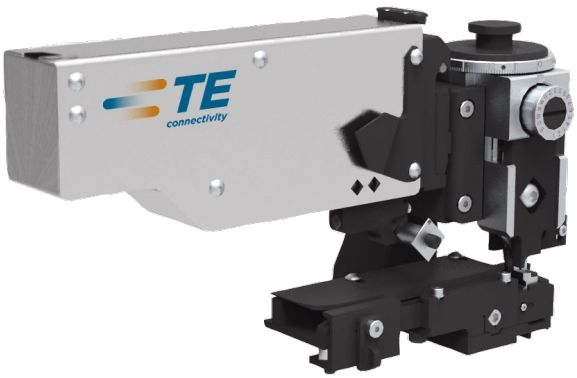
18 Positions MCON 1.2 + 2.8 Mixed Tab Housing

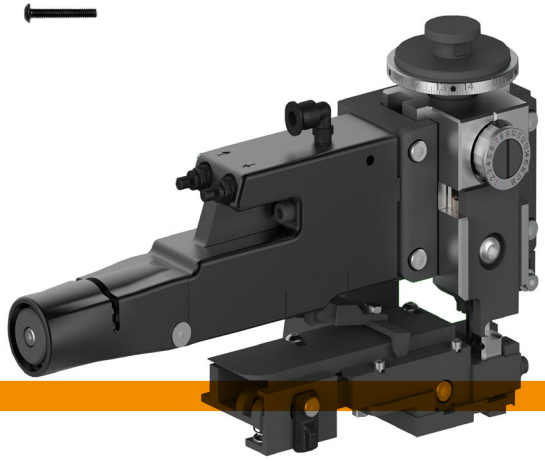
No. of Positions	Keying Options	Housing Color	Part Number	Dimensions (mm) A	Dimensions (mm) B	Dimensions (mm) C	Mating Receptacle Housing
18	A	Black	1801739-1	46.2	58.6	19.6	1801735-1
	B	Gray	1801739-2				1801735-2
	C	Blue	1801739-3				1801735-3
	D	Brown	1801739-4				1801735-4
	E	Purple	1801739-5			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

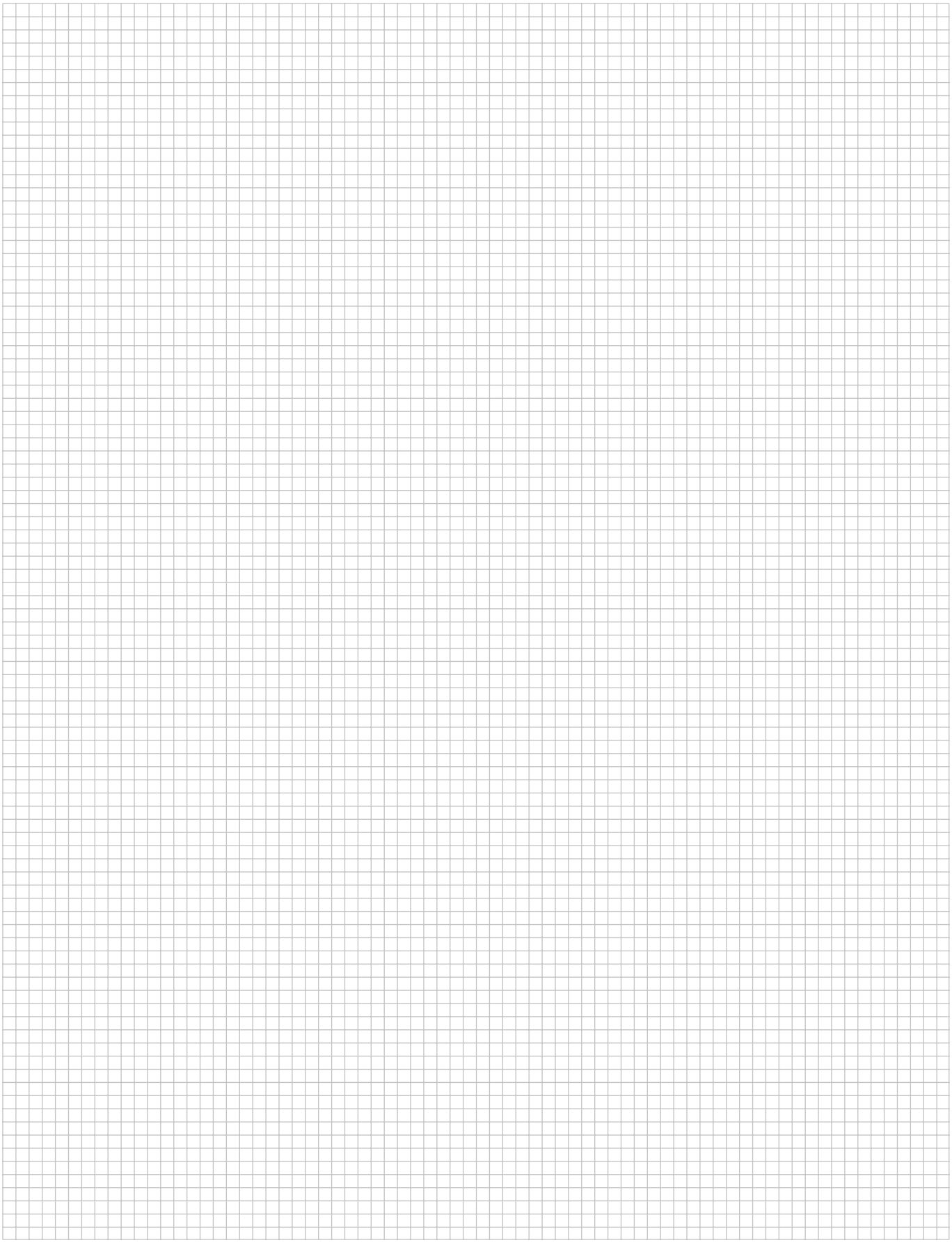
Finding Equipment Online

www.tooling.te.com

- 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



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