



INNOVATIVE TECHNOLOGIES

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



INTERCONNECTION SYSTEMS

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



CABLE ASSEMBLIES

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



HYBRID & ELECTRIC MOBILITY SOLUTIONS

Our technologies leverage decades of innovation and experience with high-voltage transmission and distribution. Our hybrid and electric mobility solutions include a complete line of connectors, terminals, sensors, cable assemblies, contactors, and battery connection protection to help safeguard the flow of power in hybrid and electric vehicles. Connection after connection, you can count on TE for smaller, greener, lighter and smarter solutions you can trust.





SENSOR SOLUTIONS

Data is critical for making vehicles safer, greener, smarter and more connected. Customers rely on our sensor technology to provide data for control, adaptation and response of vehicle functions and features that increase safety, comfort, efficiency, and more. We collaborate to provide solutions for demanding and harsh applications such as automated transmissions, engines, chassis, clutch, brake and exhaust. Our products can be found in vehicles traveling the world's roads and highways.



INFOTAINMENT

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



RELAYS

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

1st Digit

Against Foreign Objects (incl. Dust)

1st Digit

Against Foreign Objects (incl. Dust)

0



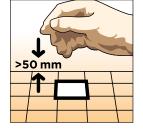
Not protected.

5K



Dust protected.

1



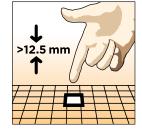
Protected against solid objects greater than 50 mm (ex. back of hand).

6K



Dust tight.

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).

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

9K

Protected against

splashing water with

increased pressure.

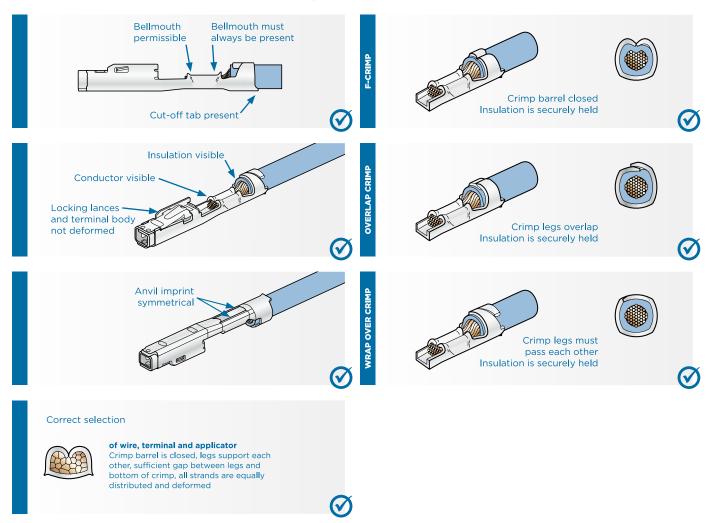
high-pressure/

(Automotive).

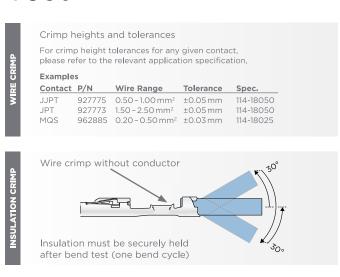
steam-jet cleaning

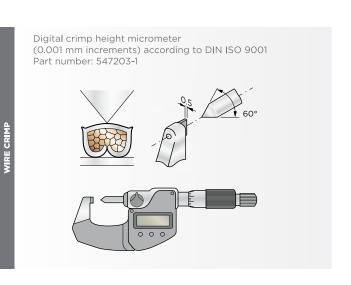
4K

Good Crimp Quality

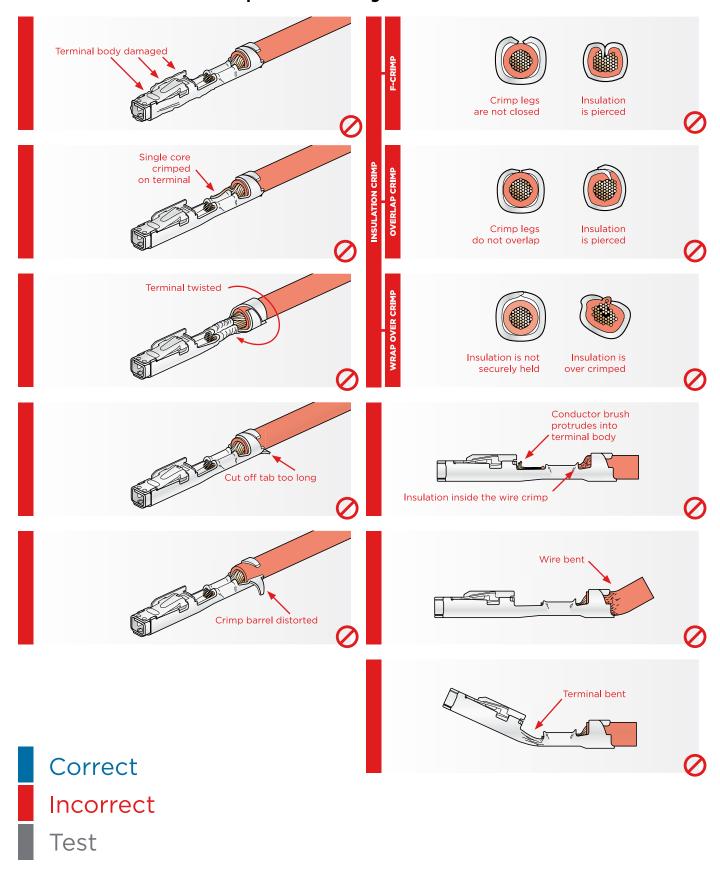


Test





Incorrect Crimp Quality



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

RoHS Compliant

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

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

Non-RoHS Compliant

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

5 of 6 Compliant

A "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/

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

Diameter (Inch)	Diameter (mm)	F (mm²)
0.5800	14.733	170.0
0.5165	13.13	135.0
0.4600	11.684	103.8
0.4096	10.40	79.0
		67.5
		53.4
		42.2
		33.7
		26.6
		21.0
		16.9
		13.25
		10.25
		8.34
		6.6
		5.27
		5.2 <i>1</i> 4.15
		4.15 3.3
		2.63
		2.08
		1.65
		1.305
		1.01
		0.79
		0.65
		0.51
		0.407
		0.32
		0.255
		0.205
		0.162
		0.125
		0.102
		0.08
		0.0646
		0.0516
0.0089		0.04
0.0080	00.203	0.0324
0.0071	00.180	0.0255
0.0063	00.160	0.02
0.0056	00.142	0.0158
0.0050	00.127	0.0127
0.0045	00.114	0.01
0.0040	00.101	0.008
0.0035	00.089	0.0062
0.0031	00.079	0.0049
0.0028	00.071	0.00395
0.0025	00.064	0.00321
0.0022	00.056	0.00246
0.00198	00.050	0.00196
0.00176	00.045	
0.00157	00.040	
0.00140	00.036	
0.00124	00.031	
0.00110	00.028	
	0.5800 0.5165 0.4600 0.4096 0.3648 0.3249 0.2893 0.2576 0.2294 0.2043 0.1819 0.1620 0.1443 0.1285 0.1144 0.1019 0.0907 0.0808 0.0720 0.0641 0.0571 0.0508 0.0453 0.0403 0.0359 0.0320 0.0285 0.0226 0.0201 0.0179 0.0159 0.0142 0.0126 0.0113 0.0100 0.0089 0.0089 0.0080 0.0071 0.0063 0.0056 0.0050 0.0045 0.0040 0.0035 0.00050 0.0045 0.00050 0.0045 0.00050 0.0045 0.00022 0.00198 0.000176 0.00157 0.00140 0.00157	0.5800 14.733 0.5165 13.13 0.4600 11.684 0.4096 10.40 0.3648 9.27 0.3249 8.25 0.2893 7.34 0.2576 6.55 0.2294 5.82 0.2043 5.18 0.1819 4.62 0.1620 4.115 0.1443 3.66 0.1285 3.26 0.1144 2.90 0.1019 2.59 0.0907 2.30 0.0808 2.05 0.0720 1.83 0.0641 1.63 0.0571 1.45 0.0508 1.29 0.0453 1.14 0.0403 1.02 0.0359 0.91 0.0320 0.81 0.0253 0.64 0.0226 0.57 0.0201 00.51 0.0179 0.455 0.0159 0.40 <td< th=""></td<>

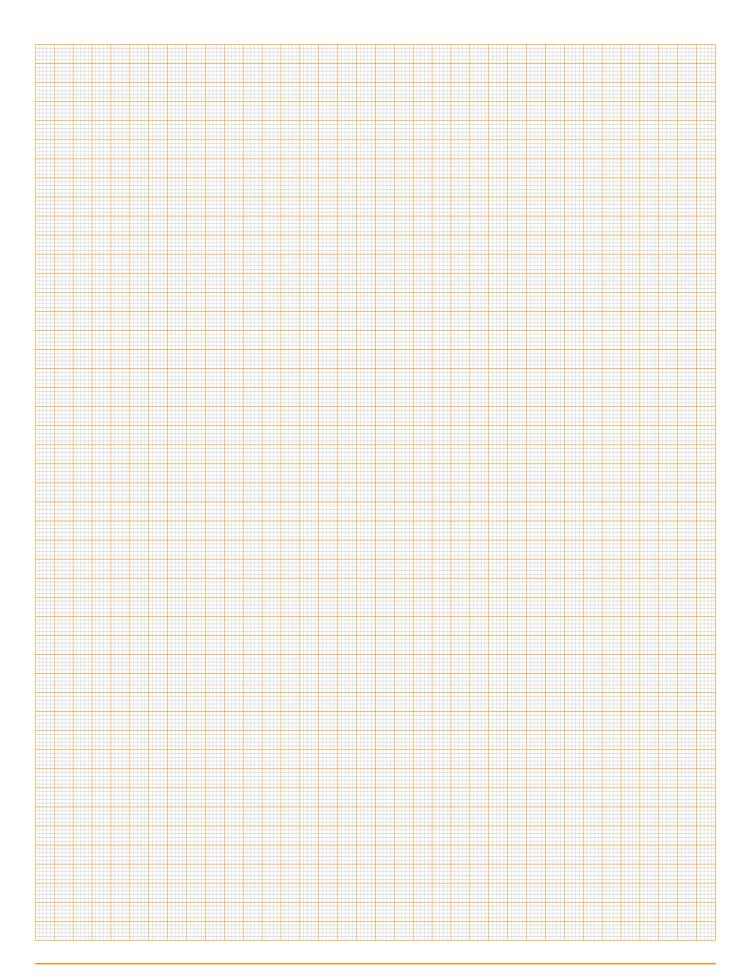
Remark: Starting from 0.03 mm2 (AWG 32) a wire can be crimped.

MCON	
Interconnec	tion
System	

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MCON	
Interconnecti	on
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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 clean body version
- *** -40 °C to 180 °C with innovative surface technology available

MCON 0.50 mm Contact System

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)

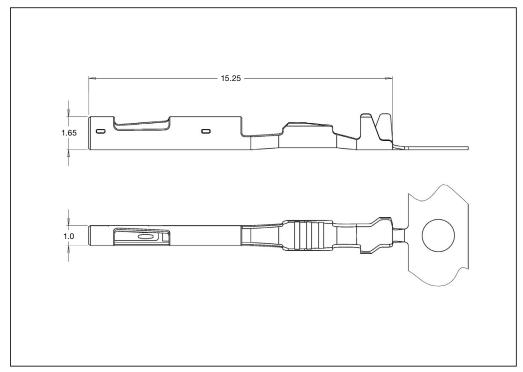
-40 °C ... +150 °C (gold plated) -40 °C ... +170 °C (silver plated)

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

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 / -3	2151332-x	
0.00 0.05	0.95 – 1.20	0177000	-1 / -3	2151523-x	- 4-1579014-1
0.22 - 0.35	1.20 – 1.30	2177909	-1 / -3	2151524-x	_

Note: All part numbers are RoHS and ELV compliant

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

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

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

 $^{^{\}diamondsuit}$) 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 - 1.5 mm²

Current Carrying Capacity:

up to 17 Ampere

(@ 80 °C ambient temperature)

Total Temperature Range:

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

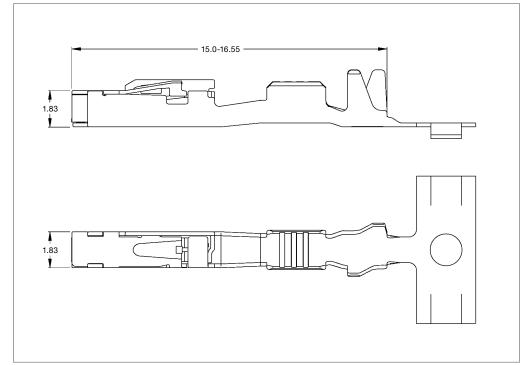
-40 °C ... +150 °C (silver plated)

Insertion Force:

Max 4 N

Extraction Force:

Max 2.5 N



Extraction Tool*:

5-1579007-3

Product Drawing:

1452674

Product Specification:

108-18782

Application Specification:

114-18464

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		4-1579001-3	5-1418758
0.50 - 0-75	1.4 – 1.9	7-1452656	-1 / -2 / -3	x-2151037-x	539635-1	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)}	50005 4	4-1579001-7	1718758
0.50 - 0.75	1.4 – 1.9	7-1452668	-1 / -2 / -3	x-2151036-x	- 539635-1	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

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

Tab Contacts - Locking Lance (LL)



Technical Features

Contact Material:

CuSn/CuNiSi

Wire Size Range: 0.13-1.5 mm²

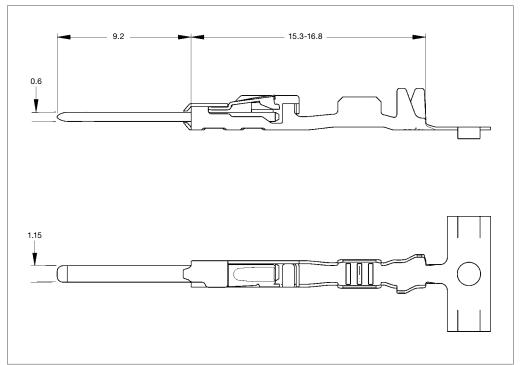
Current Carrying Capacity:

up to 17 Ampere

(@ 80 °C ambient temperature)

Total Temperature Range:

 $\begin{array}{l} -40\,^\circ\text{C}\,\ldots\,+130\,^\circ\text{C} \;(\text{tin plated}) \\ -40\,^\circ\text{C}\,\ldots\,+150\,^\circ\text{C} \;(\text{gold plated}) \\ -40\,^\circ\text{C}\,\ldots\,+150\,^\circ\text{C} \;(\text{silver plated}) \end{array}$



Extraction Tool*:

5-1579007-3

Product Drawing:

1418754

Product Specification:

108-18782

Application Specification:

114-18464

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	_	4-1579001-3	7-1452653
0.50 - 0.75	1.4 – 1.9	5-1418760	-1 /-2/ -3	x-2151300-x	539635-1	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		4-1579001-7	7-1452665
0.50 - 0.75	1.4 – 1.9	1718760	-1 /-2/ -3	x-2151477-x	539635-1	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

^{*} 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 – Clean Body (CB)



Technical Features

Contact Material:

CuSn / CuNiSi

Wire Size Range:

0.25 - 1.5 mm²

Current Carrying Capacity:

up to 17 Ampere

(@ 80°C ambient temperature)

Total Temperature Range:

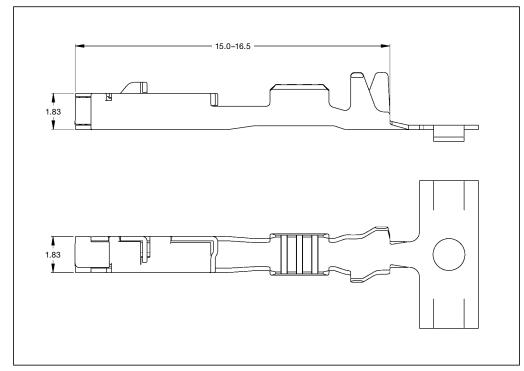
-40 °C ... +130 °C (tin plated) -40 °C ... +150 °C (gold plated) -40 °C ... +150 °C (silver plated)

Insertion Force:

Max 4 N

Extraction Force:

Max 2.5 N



Extraction Tool*: 1-1579028-1

Product Drawing:

1534326

Product Specification:

108-18782

Application Specification:

114-18464

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		3-1579001-9	2121114-x
0.50 - 075	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 \diamondsuit) In case of Tooling query please contact your local TE Connectivity representative

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

MCON 1.2 mm Contact System

Tab Contacts - Clean Body (CB)



Technical Features

Contact Material:

CuSn

Wire Size Range: 0.25 - 0.75 mm²

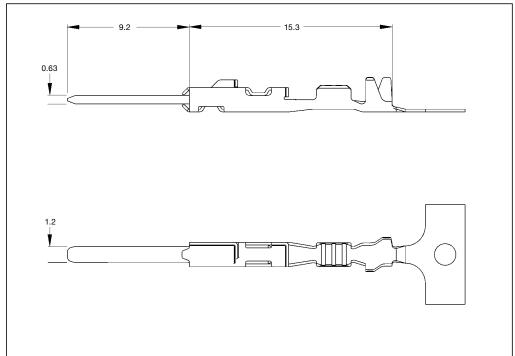
Current Carrying Capacity:

up to 17 Ampere

(@ 80 °C ambient temperature)

Total Temperature Range:

 $\begin{array}{l} -40\,^\circ\text{C}\,\ldots\,+130\,^\circ\text{C} \;(\text{tin plated}) \\ -40\,^\circ\text{C}\,\ldots\,+150\,^\circ\text{C} \;(\text{gold plated}) \\ -40\,^\circ\text{C}\,\ldots\,+150\,^\circ\text{C} \;(\text{silver plated}) \end{array}$



Extraction Tool*:

8-1579008-4

Product Drawing:

1718398

Product Specification:

108-18782

Application Specification:

114-18464

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	2141114	-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

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

HPF 1.2 mm Contact System

Receptacle Contacts - Locking Lance (LL)



Technical Features

Wire Size Range:

0.35 – 1.0 mm²

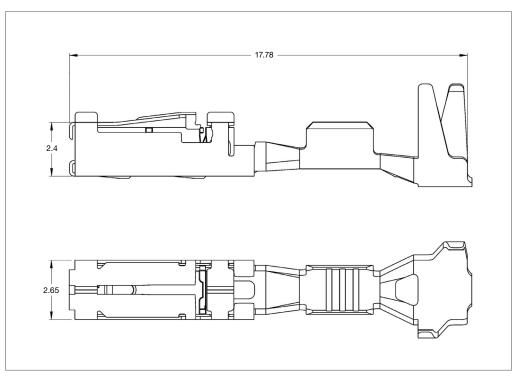
Current Carrying Capacity:

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

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		
0.50	1.4 – 2.1mm	2208362	-3	x-2151519-x	6-1579016-5	On request ♦)
0.75 – 1.00	1.4 – 2.1mm	2208360	-3	x-2151520-x	_	

Note: All part numbers are RoHS and ELV compliant

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

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

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 - 4.0 mm²

Current Carrying Capacity:

up to 36 Ampere

(at 80 °C ambient temperature)

Total Temperature Range:

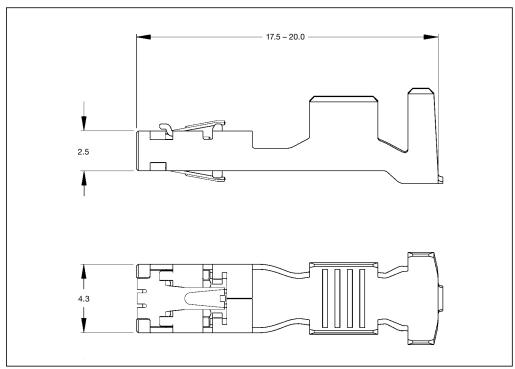
-40 °C ... +130 °C (tin plated) -40 °C ... +150 °C (silver plated)

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

Standard Receptacle Contacts (SRC)

Wire Size Range	Insulation Diameter	Part Numbers						
(mm²)	(mm) FLR	Strip Form	Material and Finish *)	Applicator ◆)	Hand Tool	Die Set		
0.20 - 0.35	1.15 – 1.40	1719836	-1 / -3	x-2151590-x		9-1579004-6		
0.50	1.4 – 1.6	1563719	-1 / -3	x-2151566-x	-	9-1579004-7		
0.75 – 1.00	1.7 – 2.1	1719838	-1 / -3	x-2151390-x	- - 539635-1	9-1579004-7		
>1.0 – 2.50	2.2 – 3.0	1719840	-1 / -3	x-2151509-x ^{a)} x-2151604-x ^{b)}	- ᲔᲐᲧᲢᲐᲔ-1	9-1579004-8		
>2.5 – 4.00	3.4 – 3.7	1718475	-1 / -3	x-2151389-x	-	9-1579004-9		

a) all wire sizes except for 2.5 ACOME

Receptacle Contacts with Single Wire Seal (SWS) System

Wire Size Range	Insulation Diameter	Part Numbers							
(mm²)	(mm) FLR	Strip Form	Material and Finish *)	Applicator ◆)	Hand Tool	Die Set			
0.50	1.4 – 1.6	1563935	-1 / -3	x-2151513-x	On request ♦)	6-1579014-7			
0.75 – 1.00	1.7 – 2.1	1670802	-1 / -3	x-2151561-x		6-1579014-1			
>1.0 – 2.50	2.2 – 3.0	1670804	-1 / -3	x-2151570-x ^{a)} x-2151582-x ^{b)}	539635-1	6-1579014-2			
>2.5 – 4.00	3.4 – 3.7	1670806	-1 / -3	x-2266517-x		6-1579014-3			

a) all wire sizes except for 2.5 ACOME

*) 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

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

b) for 2.5 mm² ACOME Wire only (preliminary)

b) for 2.5mm² ACOME Wire only

MCON 6.3mm Contact System

Receptacle Contacts - Clean Body (CB)



Technical Features

Contact Material:

CuSn/CuNiSi

Wire Size Range:

 $>2.5-6.0 \text{ mm}^2$

Current Carrying Capacity:

up to 54 Ampere

(at 80 °C ambient temperature)

Total Temperature Range:

-40 °C ... +130 °C (tin plated)

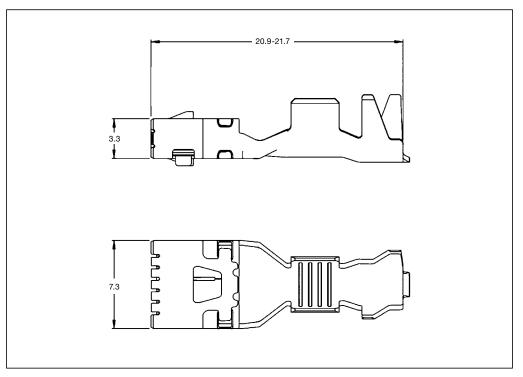
-40 °C ... +150 °C (silver plated)

Insertion Force:

Max. 15 N

Extraction Force:

Max. 10 N



Extraction Tool*:

1579028-1

Product Drawing:

2177772

Product Specification:

108-94149

Application Specification:

114-18944

Standard Receptacle Contacts (SRC) in Clean Body

		Part Numbers						
Wire Size Range (mm²)	Insulation Diameter (mm) FLR	Strip Form	Material and Finish *)	Applicator ◆)	Hand Tool	Die Set		
>2.5 – 4.0	3.4 - 3.7	2177770	-1 / -3	x-2266096-x	On request 🖎	On request ♦)		
>4.0 - 6.0	4.0 - 4.3	2177771	-1 / -3	x-2266095-x	- On request ◇)	on request \vee)		

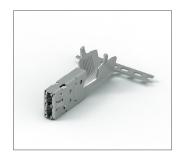
*) Material and Finish: xxx-1 = CuNiSi, pre-tin plated

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

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

MCON 8 mm Contact System

Receptacle Contacts



Technical Features

Wire Size Range: $>2.5-16 \text{ mm}^2$

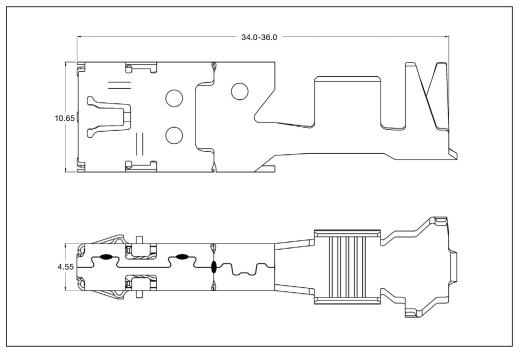
Current Carrying Capacity:

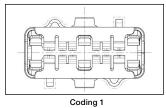
up to 90 Ampere

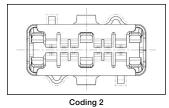
(@ 80 °C ambient temperature)

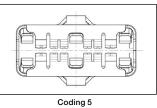
Total Temperature Range:

 $-40\,^{\circ}\text{C}\,\dots\,+180\,^{\circ}\text{C}$ (silver plated)









Extraction Tool*:

2-1579028-2

Product Drawing:

2208761

Product Specification:

108-94421

Application Specification:

114-94285

Standard Receptacle Contact (SRC)

Wire Size Range (mm²)	Insulation Diameter (mm) FLR	Coding ●)	Part Number	Material and Finish *)	Applicator ◆)	Hand Tool	Die Set
>2.5 – 4.0	2.7 – 3.7	1- / 2- / 5-	2208762	-3	x-2266457-x		
6.0 - 10.0	4.0 - 6.5	1- / 2- / 5-	2208763	-3	x-2266456-x	2-1579028-2	On request ◇)
16	8.3 max.	1- / 2- / 5-	2208764	-3	x-2276053-x	_	

Receptacle Contact with Single Wire Seal (SWS) System

Wire Size Range (mm²)	Insulation Diameter (mm) FLR	Coding ●)	Part Number	Material and Finish *)	Applicator ◆)	Hand Tool	Die Set
>2.5 – 4.0	2.7 – 3.7	1- / 2-	2208765	-3	x-2266455-x	- 2-1579028-2	On request 🗘
6.0 - 10.0	4.0 – 6.5	1- / 2-	2208766	-3	x-2266457-x	2-13/9020-2	On request \vee)

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

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

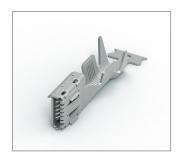
Note: All part numbers are RoHS and ELV compliant

 The pre- and suffix for the applicators depends on the applied termination equipment) In case of Tooling query please contact your local TE Connectivity representative

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

MCON 9.5 mm Contact System

Receptacle Contacts



Technical Features

Contact Material:

CuNiSi/CuSn

Wire Size Range:

>10 - 16 mm²

Current Carrying Capacity:

up to 100 Ampere

(at 80 °C ambient temperature)

Total Temperature Range:

-40 °C ... +130 °C (tin plated)

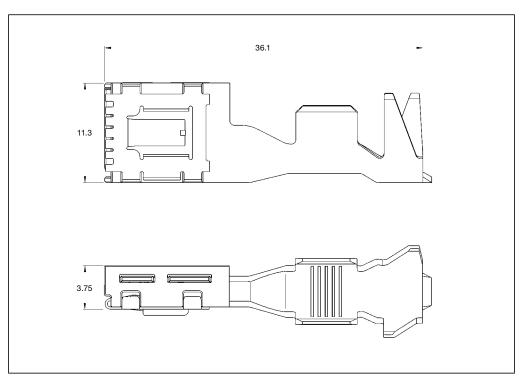
-40 °C ... +150 °C (silver plated)

Insertion Force:

Max. 35 N

Extraction Force:

Max. 10 N



Product Drawing:

1823044

Product Specification:

108-94150

Application Specification:

114-18945

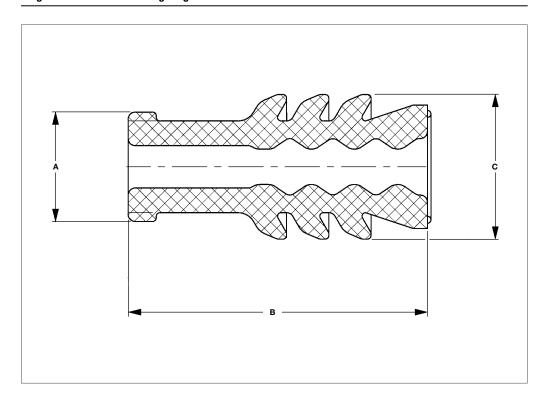
Standard Receptacle Contact (SRC)

Wire Size Range (mm²)	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	0n request (1)	On request (1)
16	7.5 – 8.1	1-1823034	-1 /-3	x-1893255-x	- On request ♡)	On request ♥)

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

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

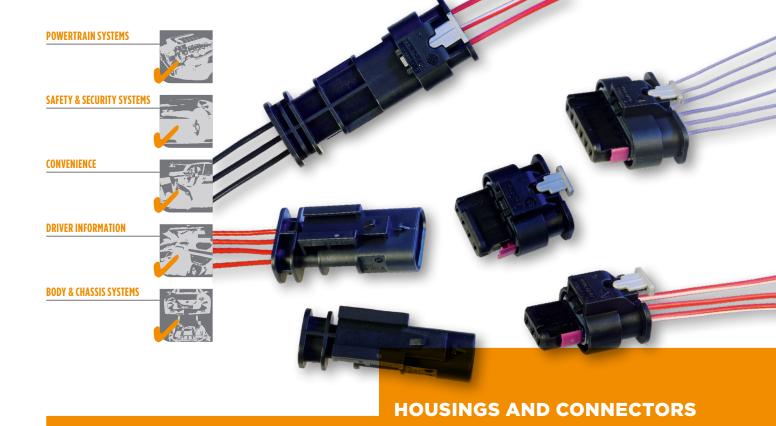
Single Wire Seals and Sealing Plugs for MCON Contacts



Single Wire Seals and Sealing Plugs for MCON Contacts

Cavity Diameter	Insulation Diameter	Color	David Number		Dimensions (mm)		Used for	
(mm)	(mm) FLR	COIOF	Part Number	Α	В	С	- Usea for	
	0.9-1.4	Yellow	967067-2					
3.55	1.4-2.1	Green	967067-1	3.1	8.5	4.1	MCON 1.2	
	Sealing Plug	Blue	967056-1					
	1.2-1.4	White	2297816-1					
3.58	1.4-1.6	Green	2297817-1	3.2	13.0	3.9	HPF 1.2	
3.30	1.7-1.9	Orange	2297818-1	3.2	13.0	3.9	Π Γ Γ 1.2	
	1.9-2.1	Yellow	2297819-1					
	0.9-1.9	Gray	963142-1	_				
3.95	1.9-2.4	Green	967067-1	3.1	8.6	4.7	MCON 1.2	
	Sealing Plug	White	963143-1					
	1.4-2.1	Blue	828904-2					
4.9	2.2-3.0	White	828905-1	3.4	7.8	5.6	MCON 2.8	
	Sealing Plug	Natural	828922-1					
6.4	3.4-3.7	Green	828985-1	3.4	7.8	7.2	MCON 2.8	
0.4	Sealing Plug	Brown	828986-1	3.4	7.0	1.2	WIGUN 2.0	
8.5	3.4-3.7	Green	967608-1	4.1	- 9.3	9.4	MCON 6.3	
0.0	4.0-4.3	Blue	1719972-1	5.5	9.5	9.4	INICON 6.5	
	5.7-6.5	White	2300588-1					
	5.4-6.0	Brown	2300588-2*					
14.4	4.4-5.0	Gray	2300588-3*	9.95	16.5	15.5	MCON 8	
14.4	4.0-4.4	Yellow	2300588-4*	9.90	10.5	10.0	IVICUIN O	
	3.3-3.7	Blue	2300588-5*					
	2.7-3.0	Green	2300588-6*					

*) On request



MCON Interconnection System INTRODUCTION

MCON connectors offer high reliability for use in the automotive industry

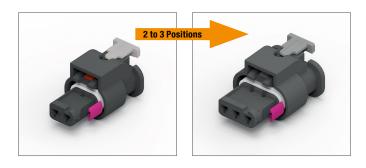
The new generation MCON connector system offers receptacle and tab housings with capability for waterproofing and resistance to conditions of extreme vibration.

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 130 °C



Technical Features

Wire Size Range: max. 1.0 mm²

Total Temperature Range:

130°C

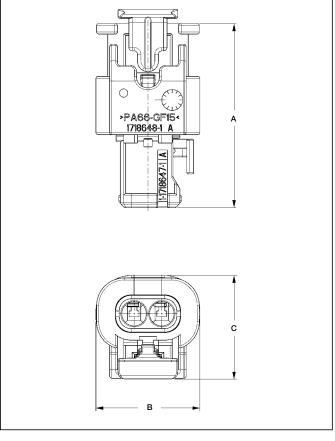
 ${\bf Product\ Specification:}$

108-18969

Application Specification:

114-18861 Extraction Tool:

5-1579007-3

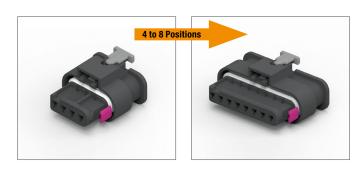


Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 2 to 3 Positions

No. of	Keying	Housing	CPA	180° turned	Doub Number		Dimensions (mm)		Mating
Positions	Options	Color	Yes / No	Outer Housing	Part Number	Α	В	С	Tab Housing
			Yes	_	1-1718643-1				1-1703498-x
		Black	No		1-1670916-1				1-1703498-x
2	Α	DIAUK	Yes	Yes	1-1718888-1	26.5	15	14.8	N/A
			No	Yes	1-1670915-1				N/A
		Yellow	Yes	-	1-1718643-4				1-1703498-x
			Yes	-	2-1718643-1				2-1703498-x
		Natural	No		2-1670916-1				2-1703498-x
2	В	ivaturai	Yes	Yes	2-1718888-1	26.5	15	14.8	N/A
			No		2-1670915-1*				N/A
		Yellow	Yes	_	2-1718643-4				2-1703498-x
			Yes	_	3-1718643-1				N/A
		Blue	No		3-1670916-1*				N/A
2	С	Blue	Yes	Yes	3-1718888-1	26.5	15	14.8	N/A
			No		3-1670915-1*				N/A
		Yellow	Yes	_	3-1718643-4				N/A
		Disale	Yes	_	1-1718644-1				1-1703494-x
	Α	Black	No		1-1670917-1				1-1703494-x
	D	Notural	Yes		2-1718644-1	26.5	10	14.0	2-1703494-x
3	В	Natural	No		2-1670917-1		19	14.8	2-1703494-x
•	0	Dive	Yes		3-1718644-1*				N/A
	С	Blue	No		3-1670917-1*				N/A

^{*} on request

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



Technical Features

Wire Size Range: max. 1.0 mm²

Total Temperature Range:

130°C

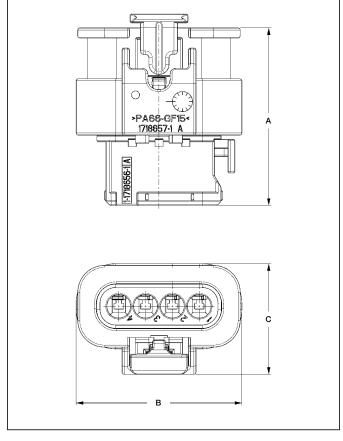
Product Specification:

108-18969

Application Specification:

114-18861

Extraction Tool: 5-1579007-3

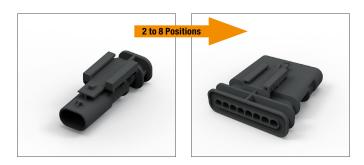


Sealed MCON 1.2 Receptacle Housing for Locking Lance Contacts - 4 to 8 Positions

No. of	Keying	Housing	CPA	180° turned	Doub Number		Dimensions (mm)		Mating
Positions	Options	Color	Yes / No	Outer Housing	Part Number	Α	В	C	Tab Housing
			Yes		1-1718645-1				1-1564559-x
	Δ.	Dlook	No		1-1670918-1				1-1564559-x
	Α	Black	No	Vac	1-2286471-1				N/A
4			Yes	– Yes -	1-2289107-1	0C F	24.7	10.5	N/A
4	В	Natural	Yes		2-1718645-1	26.5	24.7	16.5	2-1564559-x
	В	Naturai	No		2-1670918-1				2-1564559-x
	С	Dlue	Yes		3-1718645-1*				N/A
	U	Blue	No		3-1670918-1*				N/A
			Yes		1-1718806-1				1-2141520-x
	Α	Black	No		1-1670921-1				1-2141520-x
			Yes	Yes	1-2177255-1				N/A
5	В	Natural	Yes		2-1718806-1	26.5	28.7	16.5	2-2141520-x
	D	Naturai	No		2-1670921-1				2-2141520-x
	С	Dlue	Yes		3-1718806-1*				N/A
	U	Blue	No		3-1670921-1*				N/A
	٨	Dlook	Yes		1-1718646-1				1-2141324-x
6	Α	Black	No		1-1670919-1	26.5	32.7	16.5	1-2141324-x
0	- п	Notural	Yes		2-1718646-1*	20.5	32.7	10.3	N/A
	В	Natural	No		2-1670919-1*				N/A
	А	Black	Yes		1-1719393-1				1-1703506-1
8 -	A	DIACK	No	_	1-1670920-1	26.5	40.7	16.5	1-1703506-1
0	В	Natural	Yes		2-1719393-1*	26.5	40.7	10.5	N/A
	Ď	เงลเนเสเ	No	_	2-1670920-1*				N/A

^{*} on request

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



Technical Features

Wire Size Range: max. 1.0 mm²

Total Temperature Range:

130°C

Product Specification:

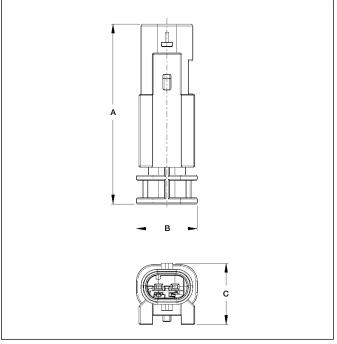
1ß8-94177-1

Application Specification:

114-18910-1

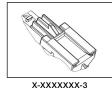
Extraction Tool:

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	А	Dimensions (mm)	С	Mating Rec Housing	
1 00100110	Орионо	00101	1-1703498-1			14.95		
	Α	Black	1-1703498-2	-		17.05	1-1718643-1 or 1-1670916-1	
			1-1703498-3			17.1		
2			2-1703498-1	44	14.8	14.95		
	В	Gray	2-1703498-2	-		17.05	2-1718643-1 or 2-1670916-1	
		-	2-1703498-3	-		17.1		
	_	5	1-1703494-1			14.95		
	Α	Black	1-1703494-2	-	10.0	17.05	1-1718644-1 or 1-1670917-1	
3	ь	0	2-1703494-1	- 44	18.8	14.95	0.1710044.1 0.1070017.1	
	В	Gray	2-1703494-2	-		17.05	2-1718644-1 or 2-1670917-1	
4 —	^	Black	1-1564559-1	- - 44 -		16.3	1 171004F 1 ov 1 1070010 1	
	Α	васк	1-1564559-2		24.4	18.1	1-1718645-1 or 1-1670918-1	
	В	Gray	2-1564559-1		24.4	16.3	0 171004F 1 or 0 1070010 1	
			2-1564559-2*		_	18.1	2-1718645-1 or 2-1670918-1	
	^	District	1-2141520-1		28.2	16.3	1-1718806-1 or 1-1670921-1	
-	Α	Black	1-2141520-2*	-		18.1	2-1718806-1 or 2-1670921-1	
5	В	Crov	2-2141520-1	- 44		16.3	1-1718806-1 or 1-1670921-1	
	D	Gray	2-2141520-2*	-		18.1	2-1718806-1 or 2-1670921-1	
	Α	Black	1-2141324-1			16.3	1-1718646-1 or 1-1607919-1	
6	A	DIAUK	1-2141324-2*	- 44	32.2	18.1	2-1718646-1 or 2-1670919-1	
O	В	Gray	2-2141324-1*	- 44	32.2	16.3	1-1718646-1 or 1-1607919-1	
	D	uray	2-2141324-2*			18.1	2-1718646-1 or 2-1670919-1	
	Δ.	Black	1-1703506-1			16.6	1-1719393-1 or 1-1670920-1	
Q	Α	DIAUN	1-1703506-2	- - 44 -	40.2	18.7	2-1719393-1 or 2-1670920-1	
8 -	В	Gray -	2-1703506-1*		40.2	16.6	1-1719393-1 or 1-1670920-1	
	D	uiay	2-1703506-2*			18.7	2-1719393-1 or 2-1670920-1	

^{*} on request

Housings and Connectors

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





Technical Features

Wire Size Range: max. 1.0 mm²

Total Temperature Range:

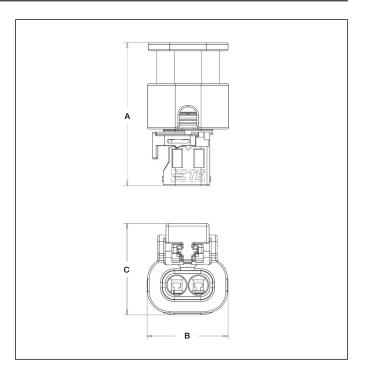
Product Specification:

108-18969-3

Application Specification: 114-18861

Extraction Tool:

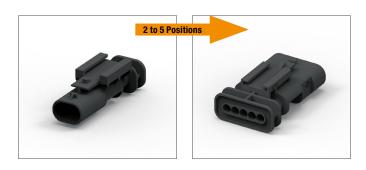
5-1579007-3



Sealed MCON 1.2 Gen2 Receptacle Housing for Locking Lance Contacts

No. of Positions	Keying Options	Housing Color	CPA Yes / No	180° Turned Outer Housing	Part Number	Α	Dimensions (mm) B	С	Mating Tab Housing
			Yes	Yes	1-2236896-3				N/A
	Α	Black	Yes		1-2236896-5	=			1-2236952-5
		•	No		1-2236896-1	_			1-2236952-5
		Notural	Yes		2-2236896-5	_			2-2236952-5
	В	Natural	No		2-2236896-1	26.5	14.0	1/10	2-2236952-5
2		Dive	Yes		3-2236896-5		14.8	14.8	N/A
-	С	Blue -	No		3-2236896-1	_			N/A
	D	Violett	Yes		4-2236896-5	-			N/A
	E	Green	Yes		5-2236896-5	-			N/A
	F	Yellow	Yes		6-2236896-5	-			N/A
	^	Black -	Yes		1-2236343-5				1-2236953-5
3	Α		No		1-2236343-1	_			1-2236953-5
		National	Yes		2-2236343-5	- 00.5	19	140	2-2236953-5
	В	Natural	No		2-2236343-1	- 26.5	19	14.8	2-2236953-5
		Violett -	Yes		4-2236343-5	-			N/A
	D		No		4-2236343-1				N/A
			Yes		1-2294256-5		24.2	16.5	N/A
	Α	Black	No		1-2294256-1	- 00.5			N/A
4	D.		Yes		2-2294256-5	- 26.5			N/A
	В	Natural	No		2-2294256-1	_			N/A
		Disale	Yes		1-2236898-5				1-2236954-5
-	Α	Black	No		1-2236898-1	- 00.5	00.7	10.5	1-2236954-1
5		National	Yes		2-2236898-5	- 26.5	28.7	16.5	2-2236954-5
	В	Natural	No		2-2236898-1	_			2-2236954-1
		Dlask	Yes		1-2294261-5				N/A
C	Α	Black	No		1-2294261-1	- 00.5	20.0	10.5	N/A
6		Matural	Yes		2-2294261-5	- 26.5	32.2	16.5	N/A
	В	Natural -	No		2-2294261-1	-			N/A

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



Technical Features

Wire Size Range: max. 1.0 mm²

Total Temperature Range:

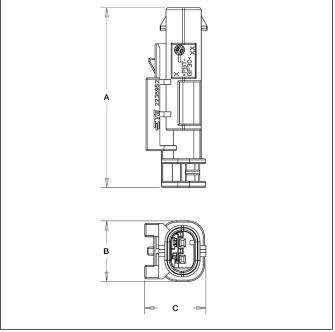
150°C

 ${\bf Product\ Specification:}$

N/A

Application Specification:

114-18861 **Extraction Tool:** 5-1579007-3



Sealed MCON 1.2 Gen2 Tab Housing for Locking Lance Contacts

		•	•					
No. of	Keying	Housing	Doub Number		Dimensions (mm)	Motion Dec Housing		
Positions	Options	Color	Part Number	Α	В	С	Mating Rec Housing	
0	A	Dlask	1-2236952-5	44	14.8	14.95	1-2236896-5 or 1-2236896-1	
2 -	В	- Black	2-2236952-5	- 44			2-2236896-5 or 2-2236896-1	
0	A	Dlask	1-2236953-5	44	18.8	14.05	1-2236343-5 or 1-2236343-1	
3	В	Black -	2-2236953-5	- 44		14.95	2-2236343-5 or 2-2236343-1	
5	Α	- Black -	1-2236954-5	44	28.2	16.3	1-2236898-5 or 1-2236898-1	
5	В	- DIAUK -	2-2236954-5	- 44		10.3	2-2236898-5 or 2-2236898-1	

Housings and Connectors

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

Technical Features

Number of Positions:

4, 6, 8, 10

Wire Size Range:

max. 1.0 mm²

Temperature Range:

150°C

Product Specification:

108-94453

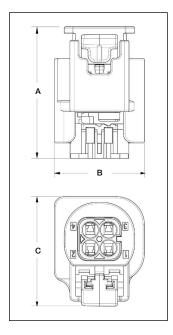
Application Specification:

114-94327









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

No. of	Keying	Housing	Part Number		Dimensions (mm)	
Positions	Options	Color	r art Number	Α	В	С
4	· A		1-2287960-5		19.8	
6		Black	1-2287965-5	20	23.8	04.5
8			1-2287970-5	29	27.8	24.5
10			1-2282337-5		31.8	

HPF 1.2 Series - up to 150 °C



Technical Features

Wire Size Range: max. 1.0 mm²

Temperature Range:

150°C

Product Specification:

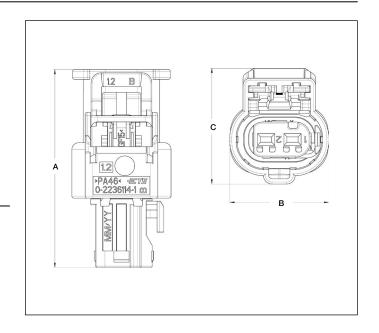
N/A

Application Specification:

114-94415

Extraction Tool:

3-1579018-4



HPF 1.2 Series - Sealed, 2 Positions

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



Technical Features

Wire Size Range:

max. 1.0 mm²

Temperature Range:

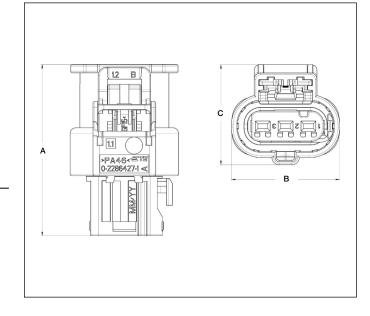
150°C

Product Specification:

N/A

Application Specification: 114-94415

Extraction Tool: 3-1579018-4



HPF 1.2 Series - Sealed, 3 Positions

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

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



Technical Features

Wire Size Range:

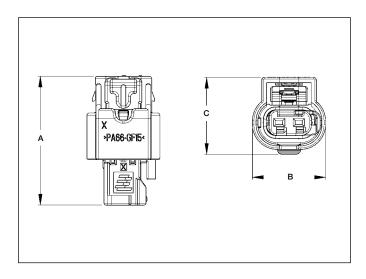
max. 1.0 mm² (20 –16 AWG)

Total Temperature Range: 125°C

Product Specification:

Application Specification:

408-8928



Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

No. of	Keying	Housing	CPA	Dort Number		Dimensions (mm)	
Positions	Options	Color	Yes / No	Part Number	Α	В	С
	Α		No	1-1924067-1			
		Black	Yes / Violet	1-1924067-9	_		
			Yes / Red	4-1924067-1	_		15.8
			No	1-1924067-2	_		
2	В	Natural	Yes / Violet	2-1924067-0	26.5	15	
			Yes / Red	4-1924067-2	_		
•	С		No	1-1924067-3	_		
		Blue	Yes / Violet	2-1924067-1	_		
			Yes / Red	4-1924067-3			
	А	Black	No	1488991-1			
	А	DIACK	Yes	4-1488991-1			
	В	Natural	No	1488991-2			
3			Yes	4-1488991-2	- 26.5	19	15.8
3	С	Blue	No	1488991-3	20.3	10	
			Yes	4-1488991-3	_		
	D		No	1488991-4	_		
	U	Gray	Yes	4-1488991-4			
	Α	Black	No	1924292-1			
	А	DIACK	Yes	4-1924292-1	_	32.7	
	D	Natural	No	1924292-2	_		
6	В	Naturai	Yes	4-1924292-2	- - 26.5		17.5
o ·	С	Blue	No	1924292-3	20.0		17.5
		Diue	Yes	4-1924292-3	_		
•	D	Crov	No	1924292-4	_		
		Gray	Yes	4-1924292-4	_		

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



Technical Features

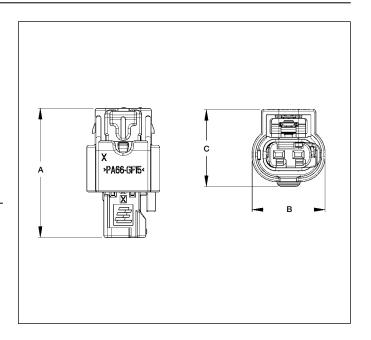
150°C

Wire Size Range: max. 1.0 mm² (20–16 AWG) Total Temperature Range: **Product Specification:**

N/A

Application Specification:

408-8928



Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

No. of	Keying	Housing	CPA	Part Number		Dimensions (mm)	
Positions	Options	Color	Yes / No		A	В	С
	Α		No	2098557-1			
			Yes	4-2098557-1			
2	В	Brown	No	2098557-2	26.5	15	15.8
			Yes	4-2098557-2	20.0	10	10.0
	С		No	2098557-3			
			Yes	4-2098557-3			
	Α		No	2098541-1		19	
			Yes	4-2098541-1			
	В		No	2098541-2			
n .		. Proun	No	4-2098541-2	26.5		15.6
3	С	Brown	No	2098541-3	20.0	19	15.0
	U		Yes	4-2098541-3			
	D		No	2098541-4			
	U		Yes	4-2098541-4			
	Α	Black -	No	1-1456426-1			
			Yes	4-1456426-1			
•		Natural -	No	1-1456426-2		24.7	
4	В		Yes	4-1456426-2	00.5		101
4 -	0	DI.	No	1-1456426-3	26.5		16.1
	С	Blue	Yes	4-1456426-3			
-	_		No	1-1456426-4			
	D	Gray	Yes	4-1456426-4			
			No	2098559-1			
	Α		Yes	4-2098559-1			
-		•	No	2098559-2			
	В		Yes	4-2098559-2	00.5	00.7	47-
6 -	С	Natural	No	2098559-3	26.5	32.7	17.5
			Yes	4-2098559-3			
-	D	•	No	2098559-4			
		_	Yes	4-2098559-4			

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



Technical Features

Wire Size Range:

max. 1.0 mm² (20 - 16 AWG)

Total Temperature Range:

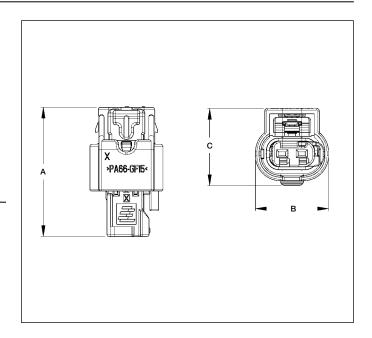
150°C

Product Specification:

N/A

Application Specification:

408-8928



Sealed MCON 1.2 Receptacle Housing for Clean Body Contacts

No. of	Keying	• •	CPA	180° turned	Doub Number		Dimensions (mm)	
Positions	Options	Color	Yes / No	Outer Housing	Part Number	Α	В	C
	Α	_			2098641-1	_	19.9	
	В	-	No	_	2098641-2	-		
	С			_	2098641-3	_		
0	Α	Drawn		Yes	2098641-4	00.5		11.0
2	Α	- Brown		Yes	2098641-5	- 26.5		11.2
	Α		Yes	_	2098641-6			
	В	-		_	2098641-7			
	С			_	2098641-8			

Housings and Connectors

3 Positions MCON 6.3 Housing



Technical Features

 $\label{eq:No. of Positions:} \textbf{No. of Positions:}$

3

Wire Size Range:

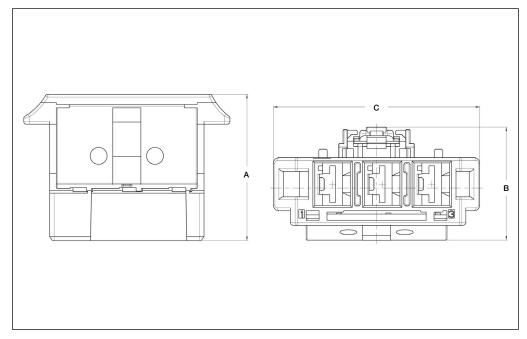
 $2.5\text{-}6~\text{mm}^2$

Product Specification:

N/A

Application Specification:

114-94372



3 Positions MCON 6.3 Housing

No. of	Keying	Housing	Part Number		Dimensions (mm)	
Positions	Options	Color	Part Number	Α	В	C
2	Α	Black 2282442-1		25.0	17	26.6
3	В	Gray	2282442-2	25.9	17	36.6

Housings and Connectors

32 Positions Mixed Housing



Technical Features

No. of Positions: **Used Terminals Systems:**

32

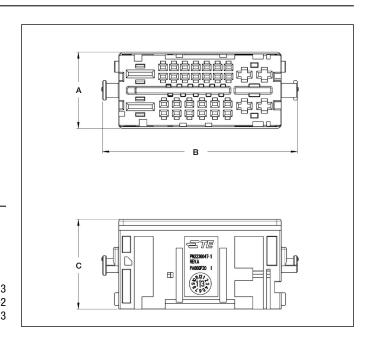
MCON 2.8 Wire Size Range: AMP MCP 6.3 $0.25 - 6.0 \text{ mm}^2$ **Extraction Tool:**

Product Specification:

5-1579007-3 MCON 1.2 108-20329 MCON 2.8 5-1579008-2 **Application Specification:** AMP MCP 6.3 1-1579007-3

MCON 1.2

411-20134



32 Positions Mixed Receptacle Housing

No. of Keying Ho		Housing	lousing Part Number		Dimensions (mm)			Mating	
Positions	Options	Color	Part Number	Α	В	С	Secondary Lock	Tab Housing	
	Α	Black	2236047-1	04.7	F4.1	01	0000040 1	2236046-7 or 1-2236046-0	
32	В	Gray	Gray 2236047-2 24.7 54.1 21 2236048-1	2236046-8 or 1-2236046-1					



Technical Features

No. of Positions: **Used Terminals Systems:**

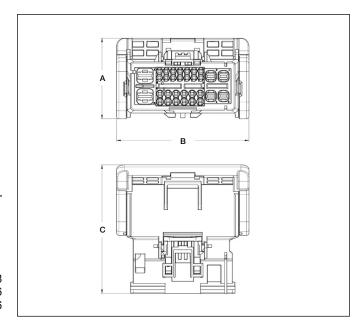
MCON 1.2 Tab

Tab 2.8 x 0,8 Wire Size Range: Tab 5.8 x 0,8 $0.25 - 6.0 \text{ mm}^2$

Extraction Tool: Product Specification:

MCON 1.2 5-1579007-3 108-20329 1-1579007-6 Tab 2.8 **Application Specification:** Tab 5.8 1-1579007-6

411-20134



32 Positions Mixed Tab Housing

No. of	Keying	Housing	CPA	Dort Number		Dimensions (mm	s (mm) Required		Mating
Positions	Options	Color	Yes / No	/ No Part Number -		В	С	Secondary Lock	Receptacle Housing
	А	Plank	_	2236046-7			35.1	2236048-1 - -	2236047-1
22		Black	Yes	1-2236046-0	FC				2236047-1
32	D	Grey -	_	2236046-8	56	57.5			2236047-2
	В		Yes	1-2236046-1					2236047-2

10 Positions Mixed Housing



Technical Features

Number of Positions:

10

Housing Material:

PA 66

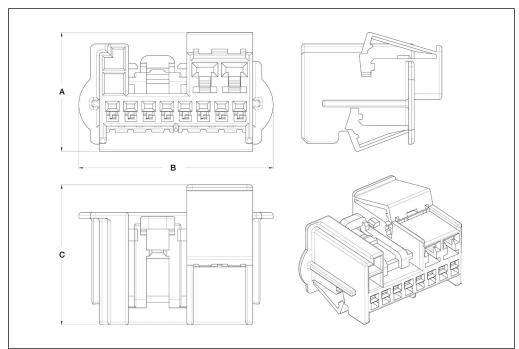
Wire Size Range:

0.25 - 4.00 mm²

Used Terminal System:

MCON 1.2

AMP MCP 2.8



10 Positions Mixed Housing

No. of	Keying	Housing	Part Number		Mating Tab Hausing		
Positions	Options	Color	Part Nulliber	Α	В	С	Mating Tab Housing
10	Α	Black	1703410-1	21	34.2	24.7	1703411-1

10 Positions Mixed Receptacle Housing



Technical Features

Number of Positions:

10

Housing Material:

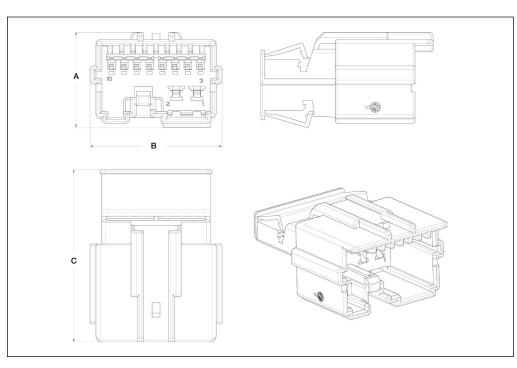
PA66

Wire Size Range:

0.25 - 4.00 mm²

Used Terminal System:

MCON 1.2 Tab Tab 2.8 x 0.8



10 Positions Mixed Receptacle Housing

No. of	Keying	Housing	Part Number		Mating Tab Housing			
Positions	Options	Color	rait Nullibei	Α	В	С	wating rab nousing	
10	Α	Black	1703411-1	23.95	33.2	43.35	1703410-1	

Housings and Connectors

10 Positions Mixed Receptacle Housing



Technical Features

Number of Positions:

Housing Material:

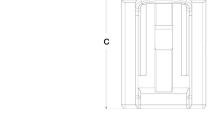
PA 66

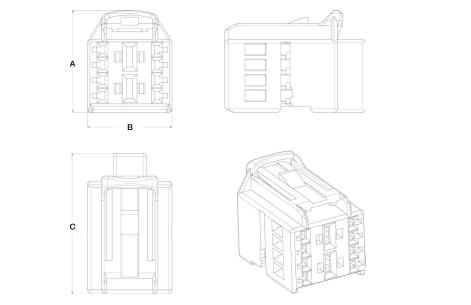
Wire Size Range:

0.25 - 4.00 mm²

Used Terminal System:

MCON 1.2 AMP MCP 2.8





10 Positions Mixed Receptacle Housing

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

10 Positions Mixed Receptacle Housing



Technical Features

Number of Positions:

Housing Material:

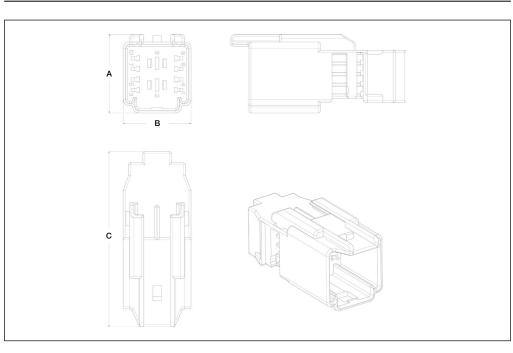
PA 66

Wire Size Range:

0.25 - 4.00 mm²

Used Terminal System: MCON 1.2 Tab

Tab 2.8 x 0.8



10 Positions Mixed Tab Housing

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

10 Positions Sealed Wire-to-Wire or Bulkhead Housing

Technical Features

No. of Positions:

10

Wire Size Range:

 $0.35 - 1.5 \text{ mm}^2$

Product Specification:

108-15398

Application Specification:

411-15748

Extraction Tool:

5-1579007-3

8-1579018-4

Insertion Tool:

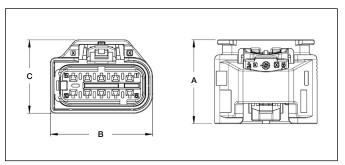
5-1579018-6 8-1579018-6

Locking Tool:

8-1579018-5 or

9-1579018-6





10 Positions MCON 1.2 Sealed Receptacle Housing

No. of	Keying	Housing	Part Number		Mating		
Positions	Options	Color	Part Number	Α	В	С	Tab Housing
	Α	Black	1801600-1				1801606-1
	В	Grey	1801600-2			23.3	1801606-2
10	С	Blue	1801600-3	26.7	32.6		1801606-3
	D	Green	1801600-4				1801606-4
	Е	Red	1801600-5				1801606-5

Technical Features

No. of Positions:

10

Wire Size Range:

 $0.35 - 1.5 \text{ mm}^2$

Product Specification:

108-15398

Application Specification:

411-15748

Extraction Tool:

5-1579007-3

8-1579018-4

Insertion Tool:

5-1579018-6

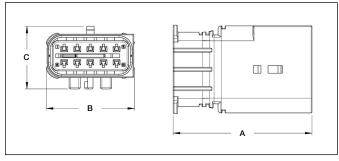
8-1579018-6

Locking Tool:

8-1579018-5 or

9-1579018-6





10 Positions MCON 1.2 Sealed Tab Housing

No. of	Keying	Housing	Part Number		Mating		
Positions	Options	Color	Part Nulliber	Α	В	C	Tab Housing
	Α	Black	1801606-1				1801600-1
	B Grey	Grey	1801606-2		30.3		1801600-2
10	С	Blue	1801606-3	47.7		21.5	1801600-3
-	D	Green	1801606-4				1801600-4
	E	Red	1801606-5				1801600-5

Technical Features

No. of Positions:

10

Wire Size Range:

 $0.35 - 1.5 \text{ mm}^2$

Product Specification:

108-15405

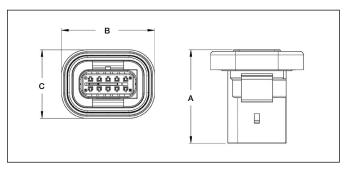
Application Specification:

N/A

Extraction Tool:

5-1579007-3





10 Positions MCON 1.2 Bulkhead

	No. of	Keying	Housing	Part Number		Mating		
	Positions	Options	Color	rait Nullibei	Α	В	C	Rec Housing
	10 -	Α	Black	1801610-1	47.7	47.5	24.0	1801600-1
		В	Grey	1801610-2	47.7	47.5	34.9	1801600-2

Housings and Connectors

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

Technical Features

No. of Positions:

16

Wire Size Range 1.2 mm:

0.35-4.0 mm²

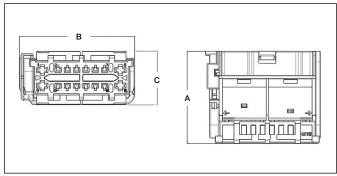
Product Specification:

108-15428

Application Specification:

N//A





16 position MCON 1.2 and MCON 2.8 Mixed Receptacle Housing

No. of	Keying	Housing	CPA	Part Number		Dimensions (mm)		Mating
Positions	Options	Color	Yes/No	Part Number	Α	В	С	Tab Housing
	Α	Black	Yes	1-1801756-1*				x-1801760-1
_	A	DIACK	No	1801756-1*				X-1001700-1
	В	Gray	Yes	1-1801756-2*	34.5			x-1801760-2
	Ь	uray	No	1801756-2*				X-1001700-2
16	С	Dive	Yes	1-1801756-3*		43.3	19.9	x-1801760-3
10		Blue	No	1801756-3*		43.3	19.9	X-1001760-3
_	D	Drawn	Yes 1-1	1-1801756-4*				v 1001700 4
	D	Brown	No	1801756-4*				x-1801760-4
_		Purple	Yes	1-1801756-5*				x-1801760-5
	E		No	1801756-5*				x-1001/00-5

^{*)} On request

16 Position MCON 1.2 and MCON 2.8 Mixed Tab Housing

Technical Features

No. of Positions:

16

Wire Size Range 1.2 mm:

0.35-4.0 mm²

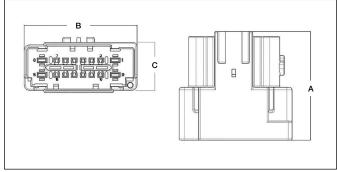
Product Specification:

108-15428

Application Specification:

N//A





16 position MCON 1.2 and MCON 2.8 Mixed Tab Housing

No. of	Keying	Housing	CPA	Part Number		Dimensions (mm)		Mating
Positions	Options	Color	Yes/No	Part Number	Α	В	С	Tab Housing
	Α	Black	Yes	- 1-1801760-1*				x-1801756-1
	A	Diack	No	1-1001700-1				X-1001/30-1
	В	Crov	Yes	- 1-1801760-2*				x-1801756-2
		Gray	No	- 1-1001760-2		43.2 44.9		X-1001750-2
16	С	Blue	Yes	- 1-1801760-3*	42.2		22	x-1801756-3
10		blue	No	- 1-1001760-3	43.2		22	X-1001750-5
	D	Brown	Yes	- 1-1801760-4*				x-1801756-4
	U	DIOWII	No	- 1-1001760-4				X-1001750-4
	Е	Purple	Yes	- 1-1801760-5*				x-1801756-5
	E		No					x-1001/30-3

^{*)} On request

MCON Interconnection System

Housings and Connectors

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

Technical Features

No. of Positions:

18

Wire Size Range:

 $0.35 - 4.0 \text{ mm}^2$

Product Specification:

108-15431

Application Specification:

408-15014

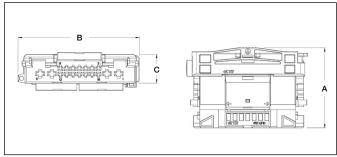
Extraction Tool:

5-1579007-3

5-1579008-2

8-1579018-4





18 Positions MCON 1.2 + 2.8 Mixed Receptacle Housing

No. of	Keying	Housing	Don't Number	ı	1)	Mating	
Positions	Options	Color	Part Number	Α	В	С	Tab Housing
	Α	Black	1801735-1			17.8	1801739-1
	В	Gray	1801735-2	37.5			1801739-2
18	С	Blue	1801735-3		57.2		1801739-3
	D	Brown	1801735-4				1801739-4
	Е	Purple	1801735-5				1801739-5

Technical Features

No. of Positions:

18

Wire Size Range:

 $0.35 - 4.0 \text{ mm}^2$

Product Specification:

108-15431

Application Specification:

408-15014

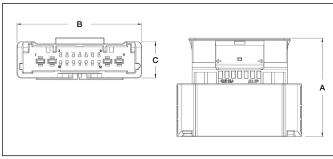
Extraction Tool:

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	А	Dimensions (mm) B	С	Mating Receptacle Housing
18	Α	Black	1801739-1		58.6	19.6	1801735-1
	В	Gray	1801739-2	- 46.2 -			1801735-2
	С	Blue	1801739-3				1801735-3
	D	Brown	1801739-4				1801735-4
	Е	Purple	1801739-5				1801735-5

MCON Interconnection System

Application Tooling





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

Numerical Index

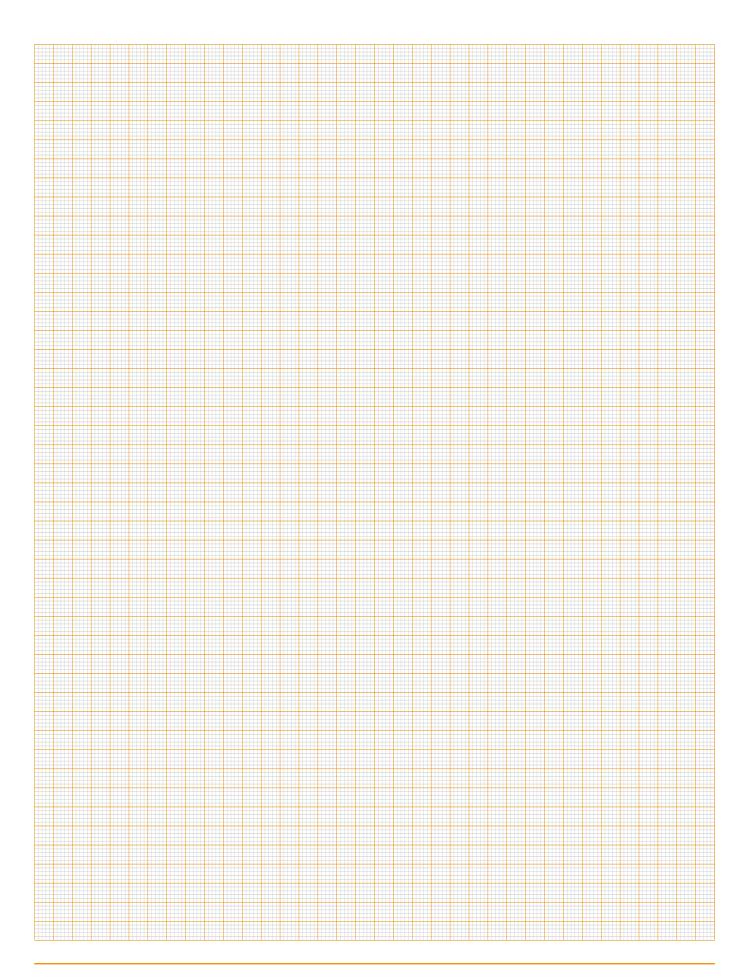
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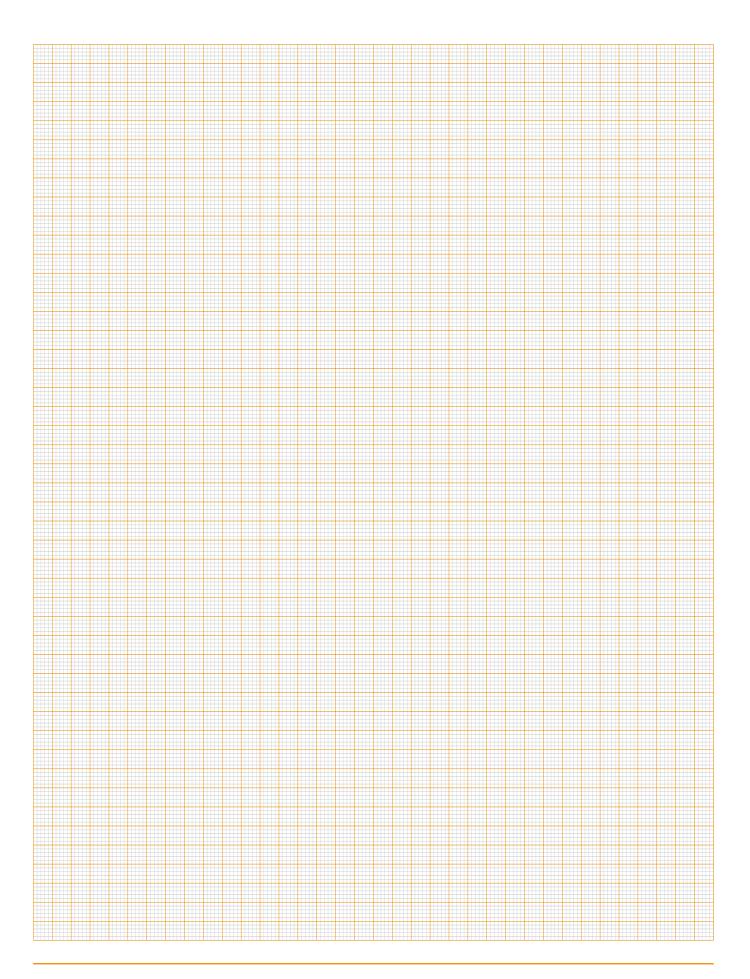
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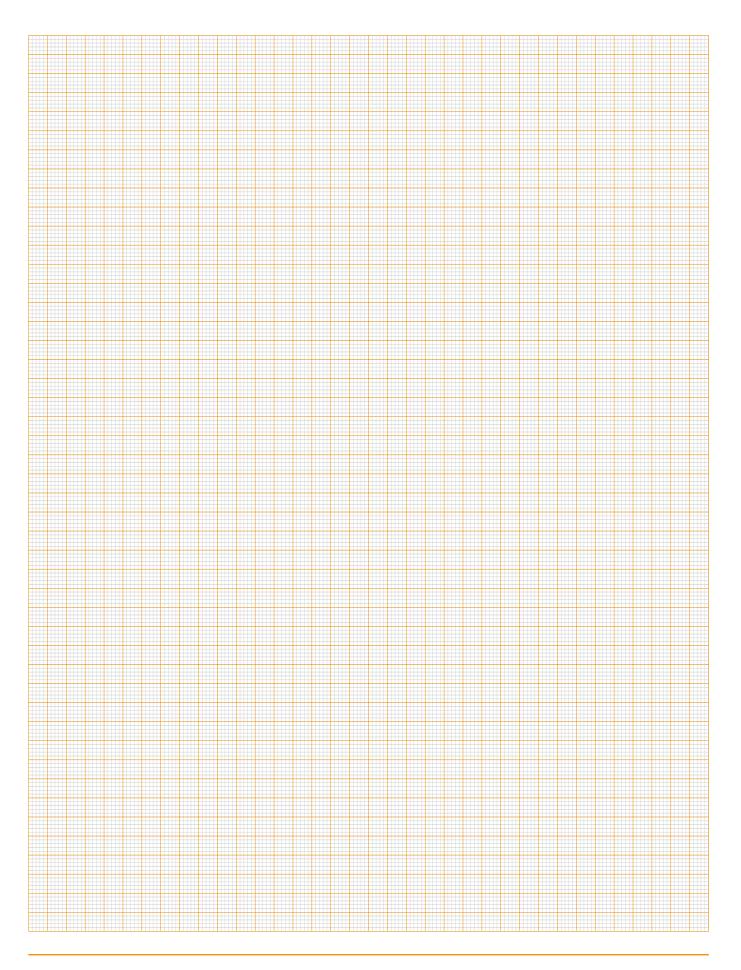
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