MCON, RECEPTACLE AND TAB

E T E connectivity

MCON Interconnection System View on TE.com >

Terminals & Splices > Automotive Terminals

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.



Automotive Terminal Termination Method: Crimp

TAB AND RECEPTACLE CONTACTS

MCON

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.

BENEFITS

MCON

- 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

Manufacturing Process (English)

View a recent discussion on TE's common manufacturing process for automotive terminals.

Features

Product Type Features

Receptacle Style

180°

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Sealable	No, Yes
Primary Locking Feature	Clean Body, Integrated in Housing, Locking Lance
Automotive Terminal Wire Type	Copper
Insulated	Yes
Body Features	
Automotive Terminal Seal Type	Family Seal or Unsealed, Single Wire Seal (SWS)
Contact Features	
Typical Current Rating (A)	1, 3, 4, 7, 8.75, 10, 11.75, 12, 13.4, 15, 16, 20, 25, 34, 36, 45, 80
Crimp Type	F-Crimp
Terminal & Splice Type	Receptacle, Tab
Mating Tab Width (mm)	.5, 1.2, 2.8, 6.3, 9.5
Mating Tab Width (in)	.019, .02, .047, .11, .248, .374
Mating Tab Thickness (mm)	.4, .6, .62, .63, .64, .8
Mating Tab Thickness (in)	.015, .016, .023, .024, .025, .031
Automotive Terminal Interface Plating	Gold (Au), Silver (Ag), Tin (Sn)
Contact Termination Area Plating Material	Silver (Ag), Tin (Sn)
Termination Features	
Automotive Terminal Termination Method	Crimp
Dimensions	
Wire Size (AWG)	13 - 11, 13 - 12, 16 - 18, 18 - 16, 20, 22, 22 - 24, 24 - 22, 24 - 26
Wire Size (mm²)	.13, .1317, .1322, .23, .235, .22 35, .2535, .35, .5, .575, .75 - 1, 1 - 1.5, 1 - 2.5, 1.5 - 2.5, 2.5 - 4, 4 - 6, 16
Wire Size Search (mm²)	.13, .15, .17, .2, .22, .25, .3, .35, .4, .5, .6, .75, . 85, 1, 1.25, 1.3, 1.5, 2, 2.5, 3, 3.3, 4, 5, 6, 16
Wire Size Search (AWG)	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28
Tab Length (mm)	7.3, 11.8, 25, 25.6
Tab Length (in)	.287, .464, .98, 1
Wire Insulation Diameter (mm)	.85 - 1.05, .85 - 1.1, .85 - 1.2, .95 - 1.2, 1.1 - 1.3, 1.1 - 1.4, 1.1 - 1.6, 1.1 - 1.75, 1.15 - 1.4, 1.3 - 1.9, 1.4 - 1.6, 1.4 - 1.7, 1.4 - 1.9, 1.45 -



	1.9, 1.45 - 2.1, 1.55 - 2.1, 1.6 - 2.4, 1.7 - 2.1, 1.9 - 2.4, 1.9 - 3, 2.2 - 3, 2.6, 2.7 - 3.7, 3.4 - 3.7, 7.5 - 8.1
Wire Insulation Diameter (in)	.03043, .033041, .033047, .037047 .039051, .039063, .043055, .043 063, .043069, .045055, .0507, .051 074, .051075, .055063, .055067, .055 075, .057083, .063094, .067083, . 075094, .075118, .087118, .102, .106 145, .134146
Usage Conditions	
Operating Temperature (Max) (°C)	80, 85, 90, 100, 105, 110, 120, 125, 130, 140, 145, 150, 155, 170
Operating Temperature (Max) (°F)	176, 185, 194, 212, 221, 230, 248, 257, 266, 284, 293, 302, 311, 338
Operating Temperature Range (°C)	-40 - 105, -40 - 125, -40 - 125, -40 - 130, -40 - 150, -40 - 170
Operating Temperature Range (°F)	-40 - 221, -40 - 257, -40 - 257, -40 - 266, -40 - 302, -40 - 338
Industry Standards	
Agency/Standard	IEC 664/664A (DIN VDE 0110), LV214, USCAR, USCAR-21

Packaging Features

Packaging Method	Box, Carton, Reel
Packaging Quantity	1, 10000, 150, 1500, 17000, 1800, 2000, 2500, 3000, 3500, 4500, 550, 6000, 6500, 7000, 8000, 9000
Other	

Customer Preferred Contact

Terminal Transmits

No

0 - 24 A (Low Power), 25 - 40 A (Power), 41 -100 A (High Power)

Reference Number

TE Internal Number

CAT-M4595-T273

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)









	MCON 1.2,TERMINAL,SWS, CB	MCON 1.2,TERMINAL,SWS, CB	MCON 1.2,TERMINAL,SWS, CB	MCON 1.2 LL REC SWS AG
TE Part #	2321537-1	2321537-2	2321537-3	1452668-3
Terminal & Splice Type	Receptacle	Receptacle	Receptacle	Receptacle
Mating Tab Width	1.2 mm	1.2 mm	1.2 mm	1.2 mm
Mating Tab Thickness	.6 mm	.6 mm	.6 mm	.6 mm
Terminal Transmits	0 - 24 A (Low Power)			
Wire Size	.75 - 1 mm²	20 AWG	22 AWG	20 AWG
Sealable	Yes	Yes	Yes	Yes
Automotive Terminal Seal Type	Single Wire Seal (SWS)	Single Wire Seal (SWS)	Single Wire Seal (SWS)	
Wire Size Search	.75 mm², .85 mm², 1 mm²	.5 mm²	.35 mm²	.5 mm², .6 mm², .75 mm²
Primary Locking Feature	Clean Body, Integrated in Housing	Clean Body, Integrated in Housing	Clean Body, Integrated in Housing	Locking Lance
Automotive Terminal Interface Plating	Silver (Ag)	Silver (Ag)	Silver (Ag)	Silver (Ag)
Operating Temperature (Max)	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150

Automotive Terminal Wire Type	Copper	Copper	Copper	Copper
Tab Length				
Insulated				
Operating Temperature Range	-40 - 125 °C, -40 - 125 °C	-40 - 125 °C, -40 - 125 °C	-40 - 125 °C, -40 - 125 °C	-40 - 150 °C
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Series	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System

*EU RoHS Directive 2011/65/EU

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Products (2 of 5)









MCON 1.2 CB TAB STC AG	MCON 2.8 TERMINAL - LL	MCON 1.2 LL REC SRC AU	MCON 6.3 CB, CONTACT
1718350-3	1719840-3	7-1452659-2	2177771-3
Tab	Receptacle	Receptacle	Receptacle
1.2 mm	2.8 mm	1.2 mm	6.3 mm
.6 mm	.6 mm	.6 mm	.8 mm
0 - 24 A (Low Power)	25 - 40 A (Power)	0 - 24 A (Low Power)	25 - 40 A (Power)
20 AWG	1 - 2.5 mm²	16 - 18 AWG	4 - 6 mm ²
No	No	No	No
.5 mm², .6 mm², .75 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm², 2 mm², 2.5 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	4 mm ² , 5 mm ² , 6 mm ²
Clean Body	Locking Lance	Locking Lance	Clean Body
Silver (Ag)	Silver (Ag)	Gold (Au)	Silver (Ag)
80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C
Copper	Copper	Copper	Copper
-40 - 150 °C	-40 - 150 °C	-40 - 150 °C	-40 - 150 °C
EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
	1718350-3 Tab 1.2 mm .6 mm 0 - 24 A (Low Power) 20 AWG AUG No Clean Body Silver (Ag) Soor C, 85 °C, 90 °C, 100 °C, 125 °C AOS °C, 85 °C, 90 °C, 100 °C, 125 °C AUG AU	1718350-3 1719840-3 Tab Receptacle 1.2 mm 2.8 mm .6 mm .6 mm 0-24 A (Low Power) 25 - 40 A (Power) 20 AWG 1 - 2.5 mm² ANO No .5 mm², .6 mm², .75 mm² 1 ma², 1.25 mm², 1.3 m²², 1.3 m²², 2.5 mm², 2.5 mm²	1718350-3 1719840-3 7.1452659-2 Tab Receptacle Receptacle 1.2 mm 2.8 mm 1.2 mm .6 mm .6 mm .6 mm .6 mm .6 mm .6 mm 0.24 A (Low Power) 25 - 40 A (Power) 0.24 A (Low Power) 20 AWG 1.2 mm² 16 - 18 AWG No No No .5 mm², 6 mm², 75 mm² 1 mm², 1.25 mm², 1.3 mm², 1.5 mm² 1 mm², 1.25 mm², 1.3 mm², 1.5 mm² .6 lean Body Locking Lance Locking Lance Silver (Ag) Silver (Ag) Gold (Au) 80 °C, 85 °C, 90 °C, 100 °C, 120 °C, 125 °C, 130 °C, 140 °C, 145 °C, 150 °C Sib °C, 510 °C, 120 °C, 125 °C, 100 °C, 150 °C .6 Copper Copper Copper -40 - 150 °C -40 - 150 °C EU ROHS Compliant EU ROHS Compliant EU ROHS Compliant

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Products (3 of 5)









	MCON 1.2 CB TAB STC AU	MCON 2.8 TERMINAL - LL	MCON 1.2 CB REC SWS SN	MCON 1.2 LL TAB SWS AU
TE Part #	1718350-2	1718475-1	1418850-1	1718758-2
Terminal & Splice Type	Tab	Receptacle	Receptacle	Tab
Mating Tab Width	1.2 mm	2.8 mm	1.2 mm	1.2 mm
Mating Tab Thickness	.6 mm	.8 mm	.6 mm	.6 mm
Terminal Transmits	0 - 24 A (Low Power)	25 - 40 A (Power)	0 - 24 A (Low Power)	0 - 24 A (Low Power)
Wire Size	20 AWG	13 - 12 AWG	16 - 18 AWG	24 - 22 AWG
Sealable	No	No	Yes	Yes
Automotive Terminal Seal Type				Single Wire Seal (SWS)
Wire Size Search	.5 mm², .6 mm², .75 mm²	3 mm², 4 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	.3 mm², .35 mm²
Primary Locking Feature	Clean Body	Locking Lance	Clean Body	Locking Lance
Automotive Terminal Interface Plating	Gold (Au)	Tin (Sn)	Tin (Sn)	Gold (Au)
Operating Temperature (Max)	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C

Automotive Terminal Wire Type	Copper	Copper	Copper	Copper
Tab Length				
Insulated				
Operating Temperature Range	-40 - 150 °C	-40 - 130 °C	-40 - 130 °C	-40 - 150 °C
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Series	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System

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Products (4 of 5)









	MCON 1.2 CB REC SRC AU	MCON 2.8 TERMINAL - LL	MCON 1.2 LL TAB STC AG	TAB 1.2X0.6,SWS; 0,08-0,15 SQMM
TE Part #	1452503-2	1563935-1	1418762-3	2141868-3
Terminal & Splice Type	Receptacle	Receptacle	Tab	Tab
Mating Tab Width	1.2 mm	2.8 mm	1.2 mm	1.2 mm
Mating Tab Thickness	.6 mm	.8 mm	.6 mm	.6 mm
Terminal Transmits	0 - 24 A (Low Power)	25 - 40 A (Power)	0 - 24 A (Low Power)	0 - 24 A (Low Power)
Wire Size	1 - 1.5 mm ²	.5 mm²	18 - 16 AWG	.1317 mm²
Sealable	No	Yes	No	Yes
Automotive Terminal Seal Type				Single Wire Seal (SWS)
Wire Size Search	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	.5 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	.13 mm², .17 mm², .2 mm², . 22 mm²
Primary Locking Feature	Clean Body	Locking Lance	Locking Lance	Locking Lance
Automotive Terminal Interface Plating	Gold (Au)	Tin (Sn)	Silver (Ag)	Silver (Ag)
Operating Temperature (Max)	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C
Automotive Terminal Wire Type	Copper	Copper	Copper	Copper
Tab Length Insulated				
Operating Temperature Range	-40 - 150 °C	-40 - 130 °C	-40 - 150 °C	-40 - 150 °C
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Series	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System

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Products (5 of 5)









	MCON 1.2 CB REC SWS AU	MCON 1.2 LL TAB SWS SN	MCON 1.2 LL REC SRC AG	MCON 1.2 CB REC SWS AU
TE Part #	1670146-2	1718762-1	7-1452659-3	1418850-2
Terminal & Splice Type	Receptacle	Tab	Receptacle	Receptacle
Mating Tab Width	1.2 mm	1.2 mm	1.2 mm	1.2 mm
Mating Tab Thickness	.6 mm	.6 mm	.6 mm	.6 mm
Terminal Transmits	0 - 24 A (Low Power)	0 - 24 A (Low Power)	0 - 24 A (Low Power)	0 - 24 A (Low Power)
Wire Size	20 AWG	18 - 16 AWG	16 - 18 AWG	16 - 18 AWG
Sealable	Yes	Yes	No	Yes
Automotive Terminal Seal Type				
Wire Size Search	.5 mm², .6 mm², .75 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²	1 mm², 1.25 mm², 1.3 mm², 1.5 mm²
Primary Locking Feature	Clean Body	Locking Lance	Locking Lance	Clean Body
Automotive Terminal Interface Plating	Gold (Au)	Tin (Sn)	Silver (Ag)	Gold (Au)
Operating Temperature (Max)	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C	80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 ° C, 130 °C, 140 °C, 145 °C, 150 °C
Automotive Terminal Wire Type	Copper	Copper	Copper	Copper
Tab Length Insulated				
Operating Temperature Range	-40 - 150 °C	-40 - 130 °C	-40 - 150 °C	-40 - 150 °C
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53 /EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Series	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System	MCON Interconnection System

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Related Materials

Catalog Section MCON Interconnection System English

Also in the Series | MCON Interconnection System

