

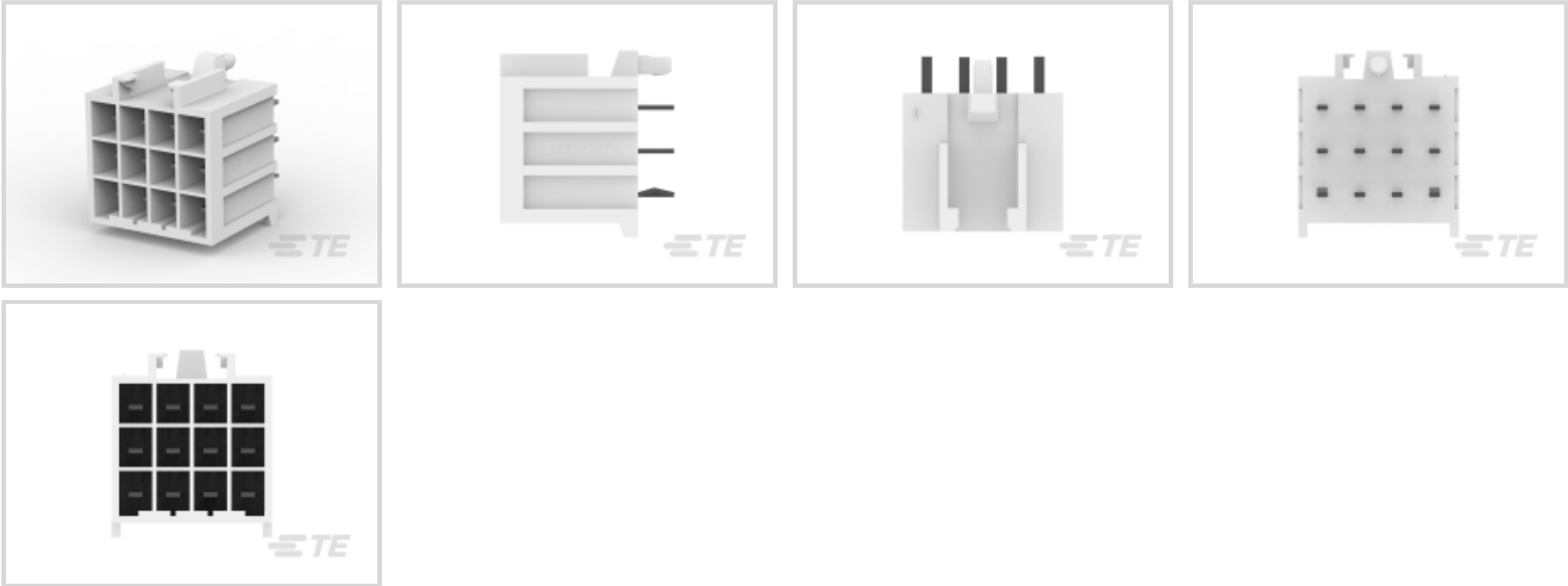
Power Double Lock

TE Internal #: 179843-1
PCB Mount Header, Vertical, Wire-to-Board, 12 Position, 3.96 mm [.156 in] Centerline, Fully Shrouded, Tin (Sn), Power Double Lock

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Connectors > PCB Connectors > PCB Headers & Receptacles



PCB Connector Type: **PCB Mount Header**
PCB Mount Orientation: **Vertical**
Connector System: **Wire-to-Board**
Number of Positions: **12**
Number of Rows: **3**

Features

Product Type Features

Mixed & Hybrid Header	No
Connector Shape	Rectangular
PCB Connector Type	PCB Mount Header
Connector System	Wire-to-Board
Header Type	Fully Shrouded
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board
Connector Product Type	Connector Assembly

Configuration Features

Number of Columns	4
Number of Loaded Positions	12
Number of Power Positions	12
Connector Contact Load Condition	Fully Loaded
PCB Mount Orientation	Vertical
Number of Positions	12



Number of Rows	3
Electrical Characteristics	
Operating Voltage	50 VAC
Body Features	
Primary Product Color	Natural
Contact Features	
Contact Underplating Material	Nickel
Contact Underplating Material Thickness	.8 – 1.8 µm[31.49 – 70.86 µin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Size	1.5mm
Contact Mating Area Plating Material Thickness	1 µm[39.37 µin]
Mating Tab Width	1.5 mm[.06 in]
PCB Contact Termination Area Plating Material Thickness	1 µm[39.37 µin]
Contact Shape & Form	Rectangular
Contact Layout	Matrix
Contact Base Material	Copper Alloy
Mating Tab Thickness	.5 mm[.02 in]
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Finish	Matte
Contact Mating Area Plating Material	Tin (Sn)
Contact Type	Tab
Contact Current Rating (Max)	7 A
Termination Features	
Rectangular Termination Post & Tail Width	1.1 mm[.043 in]
Rectangular Termination Post & Tail Thickness	.5 mm[.02 in]
Termination Post & Tail Length	3.8 mm[.15 in]
Termination Method to PCB	Through Hole - Solder
Mechanical Attachment	
Panel Mount Feature	Without
Mating Retention Type	Locking Latch
Mating Retention	With
Mating Alignment Type	Polarization



PCB Mount Retention Type	Kinked
PCB Mount Alignment Type	Boss
PCB Mount Retention	With
PCB Mount Alignment	With
Connector Mounting Type	Board Mount
Mating Alignment	With

Housing Features

Mating Entry Location	Top
Housing Material	Nylon 6/6 GF
Centerline (Pitch)	3.96 mm[.156 in]

Dimensions

Row-to-Row Spacing	4.6 mm[.181 in]
Connector Width	19.4 mm[.764 in]
PCB Thickness (Recommended)	1.6 mm[.063 in]
Connector Height	14.6 mm[.575 in]
Connector Length	17 mm[.669 in]

Usage Conditions

Operating Temperature (Max)	105 °C[221 °F]
Operating Temperature Range	-30 – 105 °C[-22 – 221 °F]

Operation/Application

Circuit Application	Power
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Industry Standards

Compatible With Agency/Standards Products	CSA, UL, VDE
Compatible With Approved Standards Products	UL E28476
Glow Wire Rating	Standard Part - Not Glow Wire
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	182
Packaging Method	Box

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)



EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Compliant
China RoHS 2 Directive MIIT Order No 32, 2016	No Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JAN 2025 (247) Candidate List Declared Against: JAN 2025 (247) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Wave solder capable to 265°C

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) ‘Guidance on requirements for substances in articles’ posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts

TE Part # 177905-1
POWER DBL LOCK PLUG HSG 12P

Also in the Series | Power Double Lock

Connector Contacts(24)

Connector Hardware(14)

PCB Headers & Receptacles(43)

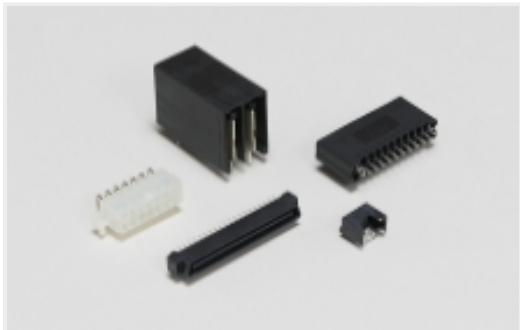
Power Contacts(24)



[Rectangular Connector Housings\(240\)](#)

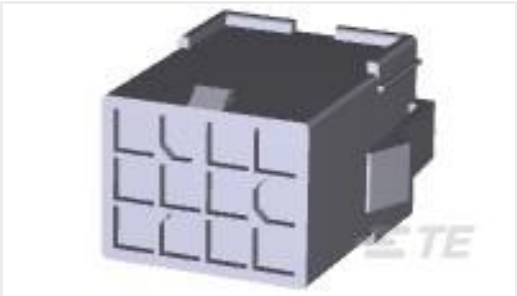


[Rectangular Power Connectors\(283\)](#)



[Standard Rectangular Connectors\(240\)](#)

Customers Also Bought



[TE Part #172162-1](#)
[12 CIR UNIV M-N-L CAP](#)



[TE Part #179840-6](#)
[AMP POWER D/LOCK T/HDR ASSY 4P](#)



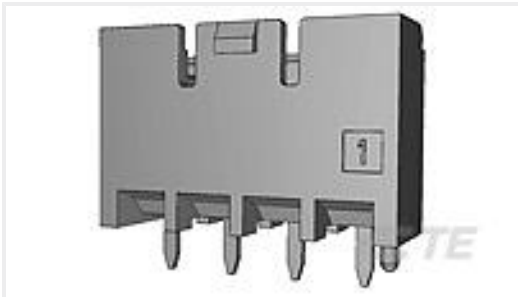
[TE Part #179839-1](#)
[AMP POWER D/LOCK T/HDR ASSY 3P](#)



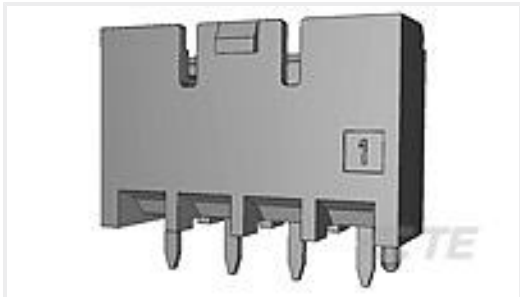
[TE Part #172158-1](#)
[3 CIR UNIV M-N-L CAP](#)



[TE Part #1986723-3](#)
[STR PLUG SPRING TYPE RH 3P, 3.50 mm](#)



[TE Part #1376382-1](#)
[5mm B-T-W Conn. 2P HDR ASSEMBL](#)



[TE Part #2-1376383-3](#)
[5MM B-T-W CONN. 3P HDR ASSEMBL](#)



[TE Part #1-776261-4](#)
[14POS,PIN DIA 1.3,HDR ASSY, 180DEG,COD 4](#)



[TE Part #179838-1](#)
[AMP POWER D/LOCK T/HDR ASSY 2P](#)



[TE Part #2005511-5](#)
[SQUIB AK2 COVER HSG](#)

Documents

Product Drawings

[AMP POWER D/LOCK T/HDR ASY 12P](#)

English

CAD Files

[3D PDF](#)

English

Customer View Model

[ENG_CVM_179843-1_C.3d_igs.zip](#)



English

Customer View Model

[ENG_CVM_179843-1_C.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_179843-1_C.2d_dxf.zip](#)

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_179843-1_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_179843-1_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_179843-1_D.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[SOFT_SHELL_PIN_AND_SOCKET_CONNECTORS_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English

Instruction Sheets

[Instruction Sheet \(non U.S.\)](#)

English

[AMP POWER DOUBLELOCK CONNECTOR SERIES](#)

English

Agency Approvals

[CSA Certificate](#)

English