

213768-4 ✓ ACTIVE

AMP | AMP Metrimate

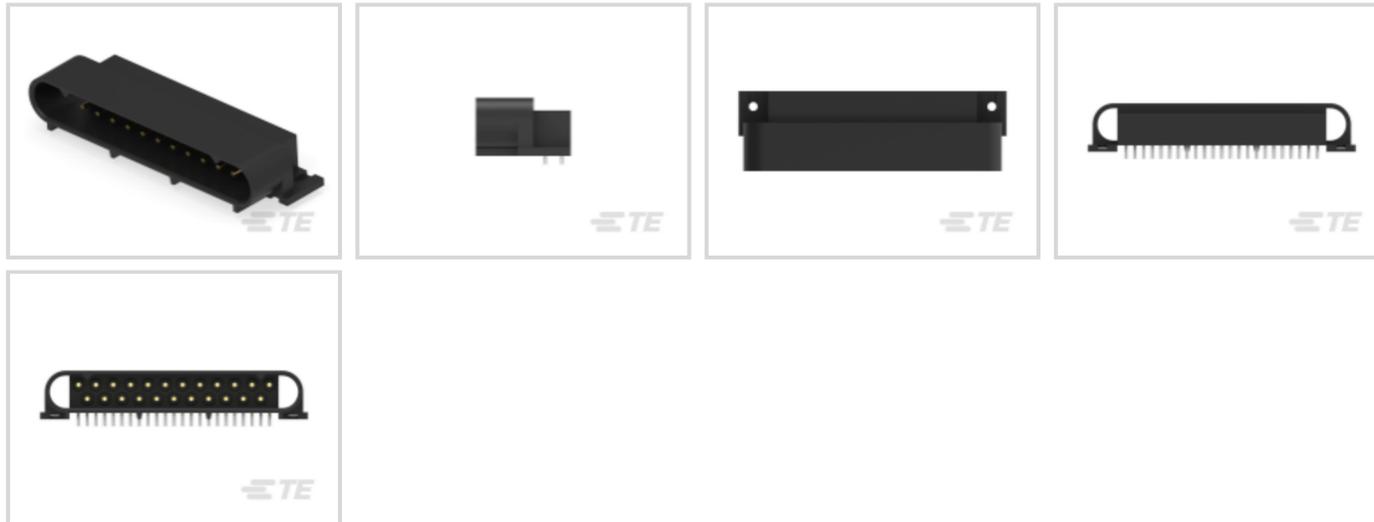
TE Internal #: 213768-4

PCB Mount Header, Right Angle, Wire-to-Board, 23 Position, 5 mm [.197 in] Centerline, Fully Shrouded, Gold, Through Hole - Solder, AMP Metrimate

[View on TE.com >](#)



Connectors > PCB Connectors > PCB Headers & Receptacles



Connector System: **Wire-to-Board**

Number of Positions: **23**

Number of Rows: **2**

Centerline (Pitch): **5 mm [.197 in]**

PCB Mount Orientation: **Right Angle**

Features

Product Type Features

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

Configuration Features

Number of Loaded Positions	23
Connector Contact Load Condition	Fully Loaded
Number of Positions	23
Number of Rows	2
PCB Mount Orientation	Right Angle

Electrical Characteristics

Operating Voltage	600 VAC
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Body Features



Primary Product Color	Black
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Contact Features

Contact Layout	Staggered
PCB Contact Termination Area Plating Material Thickness	3.81 μm [150 μin]
Mating Pin Diameter	1.75 mm[.069 in]
Contact Underplating Material Thickness	1.27 μm [50 μin]
Contact Mating Area Plating Material Thickness	.76 μm [29.92 μin]
PCB Contact Termination Area Plating Material Finish	Matte
Contact Mating Area Plating Material Finish	Bright
Contact Underplating Material	Nickel
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material	Gold
Contact Type	Pin
Contact Current Rating (Max)	7.5 A

Termination Features

Round Termination Post & Tail Diameter	.99 mm[.039 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Alignment Type	Polarization
Mating Retention	With
PCB Mount Retention Type	Screw Mount
Connector Mounting Type	Board Mount
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	With

Housing Features

Housing Material	PA 66
Centerline (Pitch)	5 mm[.197 in]

Dimensions

Row-to-Row Spacing	5.08 mm[.2 in]
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Usage Conditions

Operating Temperature Range	-55 – 130 $^{\circ}\text{C}$ [-67 – 266 $^{\circ}\text{F}$]
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Operation/Application

Circuit Application	Power & Signal
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Industry Standards

Agency/Standard	CSA, UL, VDE
UL Flammability Rating	UL 94V-0

Packaging Features

Packaging Quantity	18
Packaging Type	Tray

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: JUNE 2022 (224) Candidate List Declared Against: JUNE 2022 (224) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability

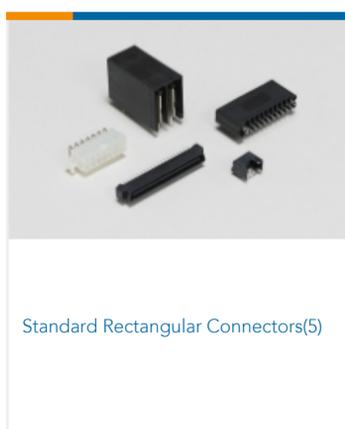
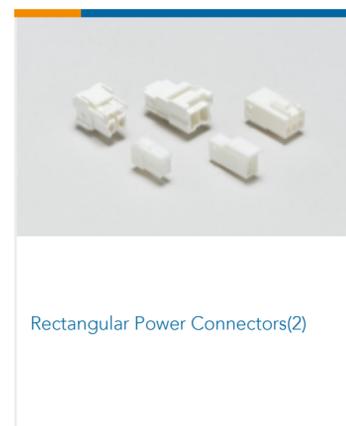
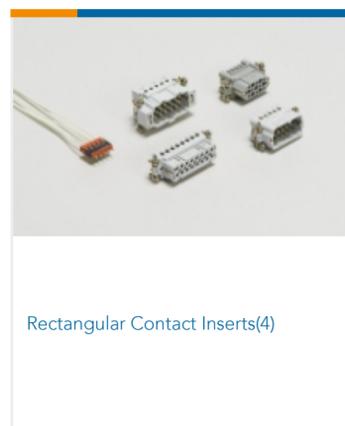
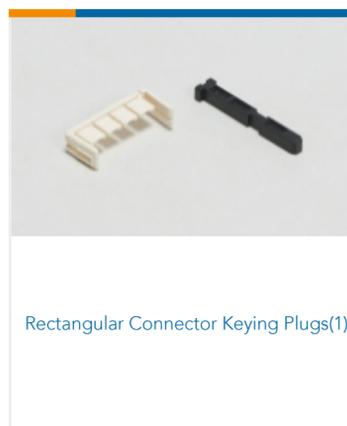
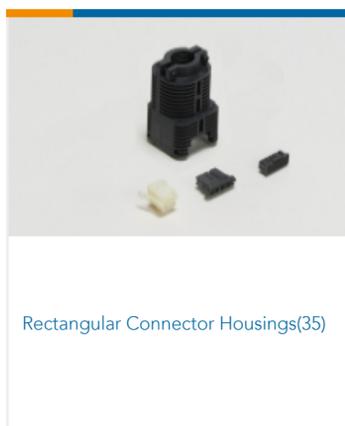
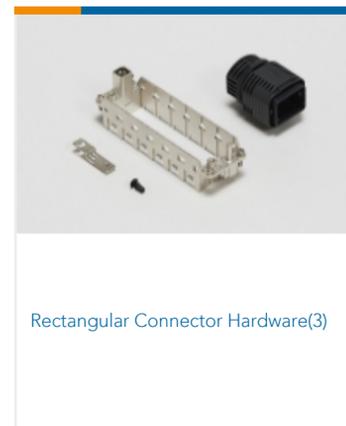
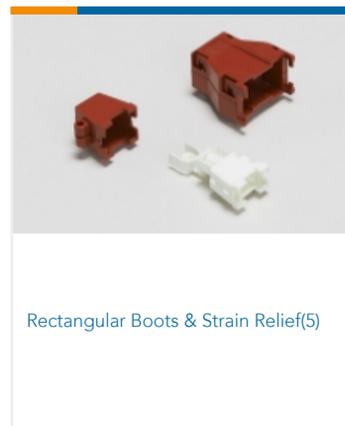
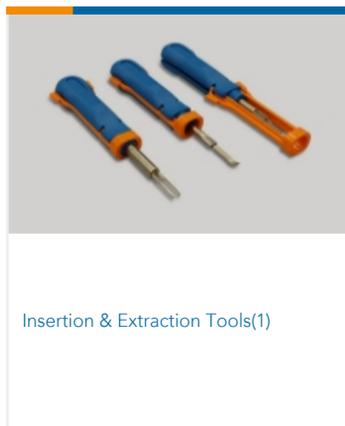
Product Compliance Disclaimer

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



Also in the Series | AMP Metrimate



Documents

Product Drawings

[PIN HDR ASSY, 23P, MMATE LF](#)

English

CAD Files

[Customer View Model](#)

[ENG_CVM_213768-4_C.3d_igs.zip](#)

English



Customer View Model

[ENG_CVM_213768-4_C.3d_stp.zip](#)

English

Customer View Model

[ENG_CVM_213768-4_C.2d_dxf.zip](#)

English

3D PDF

English

3D PDF

3D

Customer View Model

[ENG_CVM_CVM_213768-4_D.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_213768-4_D.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_213768-4_D.3d_stp.zip](#)

English

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Datasheets & Catalog Pages

[METRIMATE_PIN_SOCKET_CATALOG](#)

English

Product Specifications

[Application Specification](#)

English