

647676-8 ✓ ACTIVE



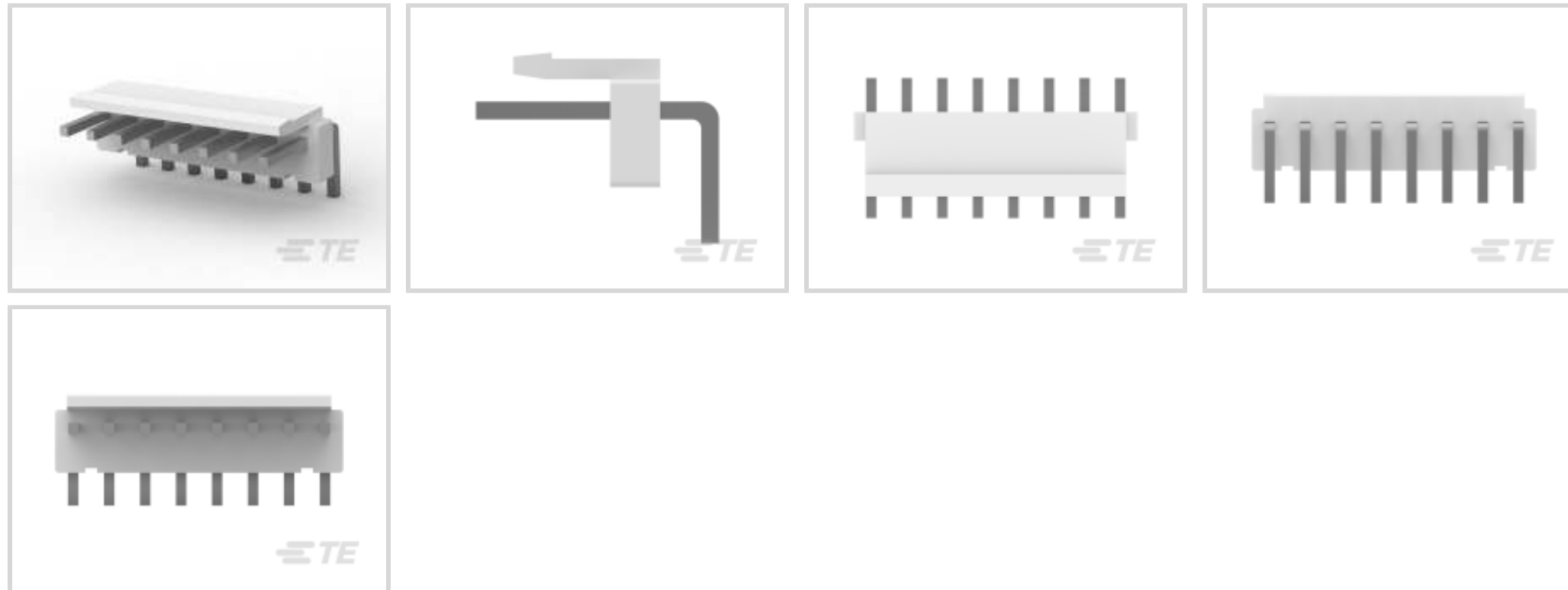
Economy Power

TE Internal #: 647676-8

Rectangular Power Connectors, Header, Plug, Wire-to-Board, 8 Position, 3.96 mm [.156 in] Centerline, Printed Circuit Board, UL 94V-0, Economy Power

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Connectors > Power Connectors > Rectangular Power > Rectangular Power Connectors



Rectangular Power Connector Type: **Header**

Connector & Housing Type: **Plug**

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

Number of Positions: **8**

Centerline (Pitch): **3.96 mm [.156 in]**

Features

Product Type Features

Header Type	Partially Shrouded
Rectangular Power Connector Type	Header
Connector & Housing Type	Plug
Connector System	Wire-to-Board
Sealable	No
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Positions	8
PCB Mount Orientation	Right Angle, Vertical
Number of Power Positions	8
Number of Rows	1

Electrical Characteristics

Operating Voltage	250 VAC
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Body Features



Connector Profile	Low
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Contact Features

Mating Post Length	8.6 mm[.33 in]
Contact Layout	Inline
Contact Mating Area Plating Material	Tin
Contact Base Material	Brass
Contact Current Rating (Max)	7.5 A
Contact Retention Within Housing	Without
Contact Type	Pin
PCB Contact Termination Area Plating Material	Tin
Contact Mating Area Plating Material Thickness	2.03 μ m[80 μ in]

Termination Features

Termination Post & Tail Length	5.34 mm[.21 in]
Termination Method to Printed Circuit Board	Through Hole - Solder

Mechanical Attachment

Mating Retention	With
Mating Alignment	With
PCB Mount Alignment	Without
PCB Mount Retention	Without
Mating Retention Type	Latch
Connector Mounting Type	Board Mount

Housing Features

Centerline (Pitch)	3.96 mm[.156 in]
Housing Color	White
Housing Material	Nylon 66

Dimensions

Connector Height	9.4 mm[.37 in]
Product Width	15.37 mm[.605 in]
Product Length	31.68 mm[1.247 in]

Usage Conditions

Operating Temperature Range	-25 – 105 °C[-13 – 221 °F]
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Operation/Application



Circuit Application	Power
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Industry Standards

UL Flammability Rating	UL 94V-0
Glow Wire Rating	Standard Part - Not Glow Wire

Packaging Features

Packaging Quantity	1000
Packaging Method	Bag

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 2023 (235) Candidate List Declared Against: JUNE 2023 (235) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F, I < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
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



TE Part # 1744416-8
8 POS EP II HSG, GLOW WIRE

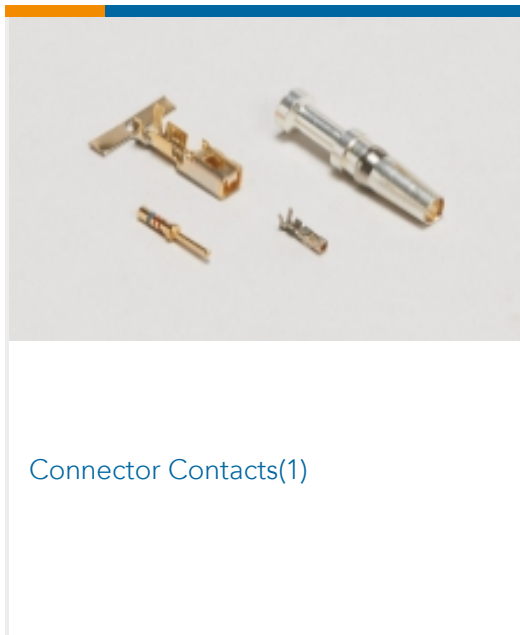


TE Part # 1744544-8
EP II TPA 08P, BLACK

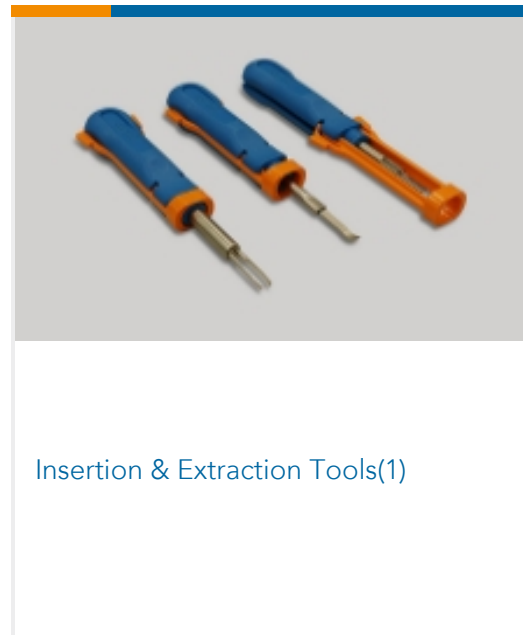


TE Part # 1744497-8
08P EP-II HOUSING, GREY

Also in the Series | Economy Power



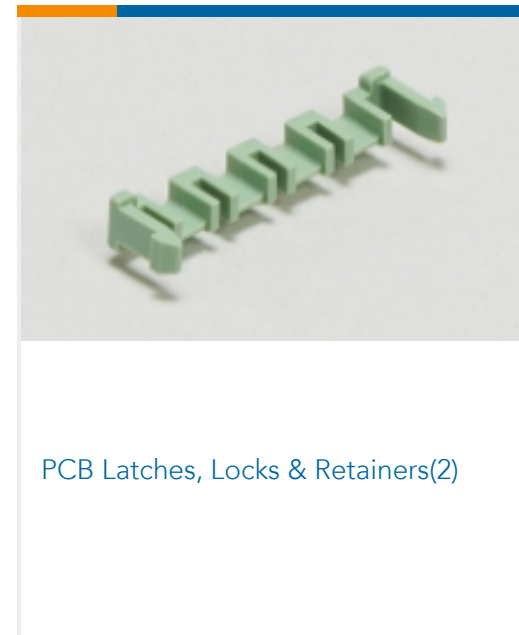
Connector Contacts(1)



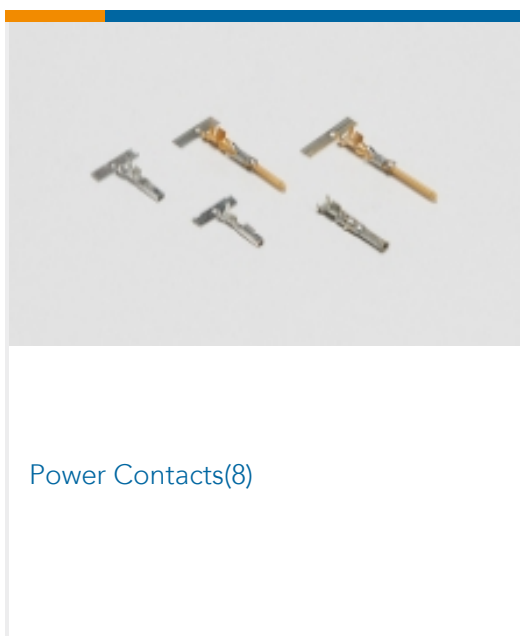
Insertion & Extraction Tools(1)



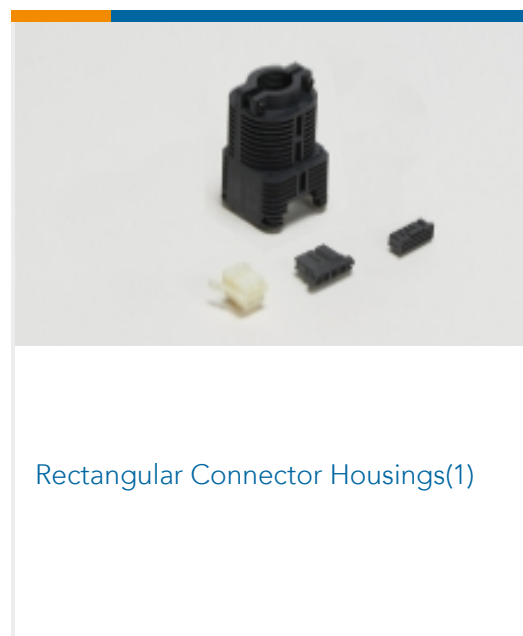
PCB Headers & Receptacles(162)



PCB Latches, Locks & Retainers(2)



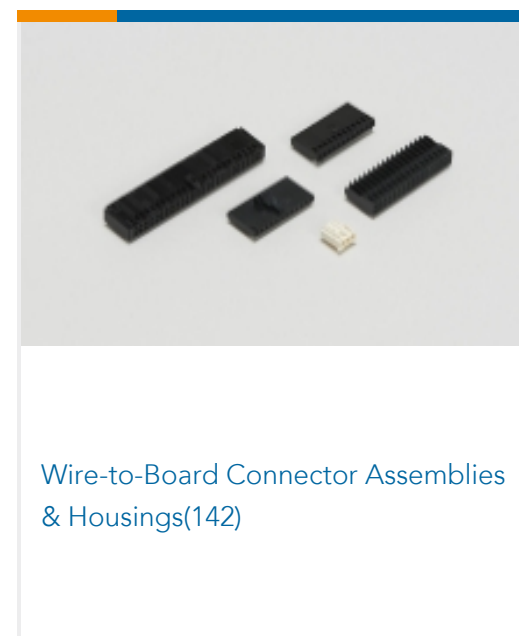
Power Contacts(8)



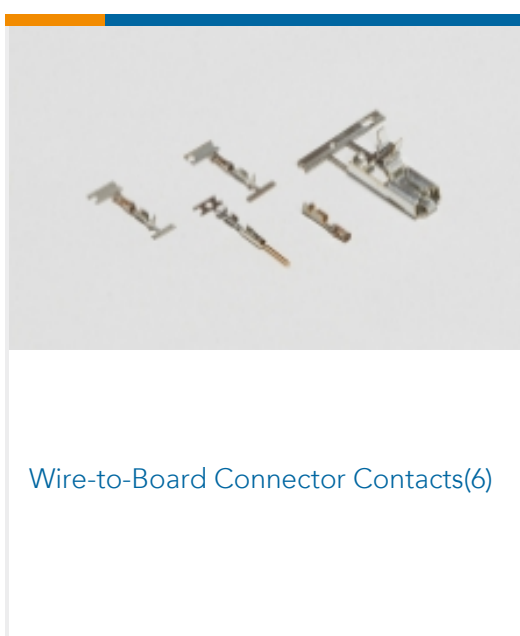
Rectangular Connector Housings(1)



Rectangular Power Connectors(302)



Wire-to-Board Connector Assemblies & Housings(142)



Wire-to-Board Connector Contacts(6)

Customers Also Bought



TE Part #1-1623732-8
BCHE 7 W 1R2 10%



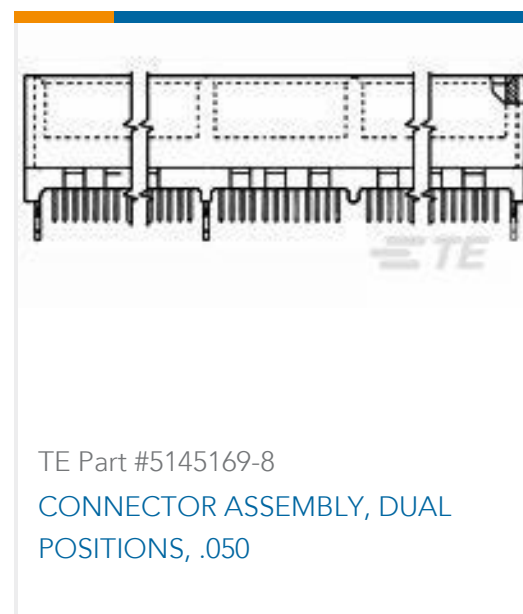
TE Part #1-1123722-8
3.96 EP PLUG HSG 8P(NATURAL)



TE Part #647676-2
3.96 EP HDR ASSY 2P R/A



TE Part #647676-3
3.96 EP HDR ASSY 3P R/A



Documents

Product Drawings

[3.96 EP HDR ASSY 8P R/A](#)

English

CAD Files

Customer View Model

[ENG_CVM_CVM_647676-8_B.2d_dxf.zip](#)

English

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_647676-8_B.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_647676-8_B.3d_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

Datasheets & Catalog Pages

[1-1773885-9 Economy Power Connectors](#)

English

Product Specifications

[Application Specification](#)

English

[Application Specification](#)

Japanese

Product Environmental Compliance

[Product Compliance Document](#)

English

[Product Compliance Document](#)

English

Agency Approvals

[UL Report](#)

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English

[UL Report](#)

English