

HIGH CURRENT VAL-U-LOK CONNECTORS

Rated up to 13A

UL94-V0 and Glow Wire Test 750 °C, no flame

PRODUCT DESCRIPTION

TE Connectivity (TE) introduces an extension of the VAL-U-LOK connector product line to provide a higher 13 amp maximum current capability on a 4.2 mm centerline spacing. The new products offer a 13 amp maximum current rating, as compared to the 9 amp maximum rating of other VAL-U-LOK connectors. New vertical headers are offered from 2-24 positions, and in a choice of UL 94 V-0 or Glow Wire test/UL94 V-2 or V-0 material. The new high current vertical headers are available with or without polarization pegs, and with or without drain holes. The new headers mate with existing UL 94 V-0 flammability and Glow Wire test housings populated with new high conductivity socket terminals offered in 16 AWG and 18-22 AWG. The high current pin and socket contacts are also designed for use in housings suitable for wire-to-wire applications.

KEY FEATURES

- Contacts are on a 4.2 mm centerline spacing
- 13 amp maximum current rating
- Headers offered with optional polarization pegs may help prevent wrong orientation on the PCB
- Choice of Glow Wire Test (750°C, no flame) / UL 94 V-2 or V-0 material, or UL 94 V-0 material
- New high current contacts are compatible with existing housings including TPA versions
- New product offering uses the same application tooling that is used for the legacy 9 amp rated contacts allowing for backward compatibility
- Contacts are available in strip form or as loose pieces

STANDARDS & SPECIFICATIONS

- Product specification #108-150001
- Application specification #114-13172
- UL Recognized, File #E28476

APPLICATIONS

- Household appliances
- Industrial machinery
- Automotive/commercial vehicles
- Medical devices
- Vending machines and gaming equipment
- HVAC equipment
- Indoor / outdoor lighting
- Security systems
- Storage and networking systems

MORE DETAILS

For information about housings and TPA devices for use with high current contacts, see the following:

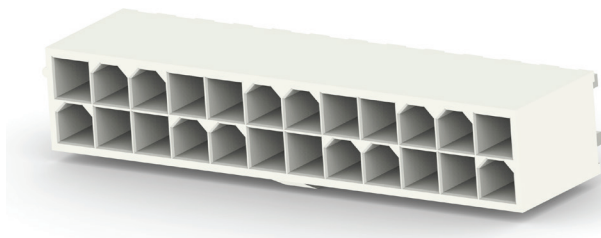
- Quick reference guide 1773458-6, VAL-U-LOK connectors
- Product flyer 1-1773730-3, VAL-U-LOK connectors with TPA

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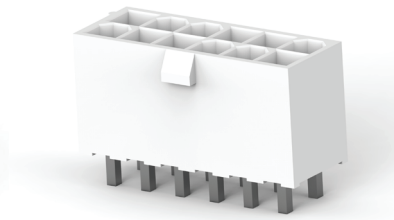
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High current VAL-U-LOK vertical headers with drain holes

Description	Part Number	Positions	Flammability
2P VERT HDR VAL-U-LOK HCS	2825260-2	2	V-0
2P VERT HDR VAL-U-LOK HCS	2825272-2	2	GWT/V-2
12P VERT HDR VAL-U-LOK HCS	1-2825260-2	12	V-0
12P VERT HDR VAL-U-LOK HCS	1-2825272-2	12	GWT/V-2
24P VERT HDR VAL-U-LOK HCS	2-2825260-4	24	V-0
24P VERT HDR VAL-U-LOK HCS	2-2825272-4	24	GWT/V-2



2-2825260-4



1-2825272-2

High current VAL-U-LOK vertical headers with pegs and drain holes

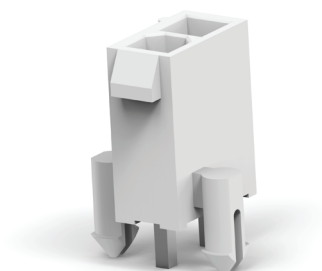
Description	Part Number	Positions	Flammability
2P VAL-U-LOK HCS VRT HDR	2825261-2	2	V-0
4P VAL-U-LOK HCS VRT HDR	2825261-4	4	V-0
6P VAL-U-LOK HCS VRT HDR	2825261-6	6	V-0
8P VAL-U-LOK HCS VRT HDR	2825261-8	8	V-0
10P VAL-U-LOK HCS VRT HDR	1-2825261-0	10	V-0
12P VAL-U-LOK HCS VRT HDR	1-2825261-2	12	V-0
20P VAL-U-LOK HCS VRT HDR	2-2825261-0	20	V-0
24P VAL-U-LOK HCS VRT HDR	2-2825261-4	24	V-0

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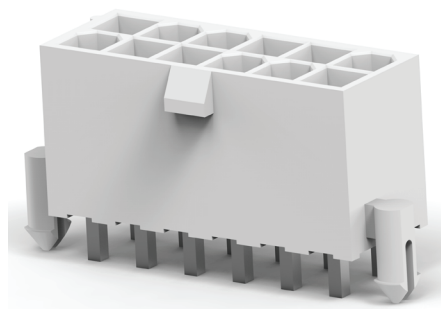
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High current VAL-U-LOK vertical headers with pegs without drain holes

Description	Part Number	Positions	Flammability
2P VAL-U-LOK HCS VRTHDR	2825274-2	2	GWT/V-0
6P VAL-U-LOK HCS VRTHDR	2825274-6	6	GWT/V-0
12P VAL-U-LOK HCS VRTHDR	1-2825274-2	12	GWT/V-0
24P VAL-U-LOK HCS VRTHDR	2-2825274-4	24	GWT/V-0



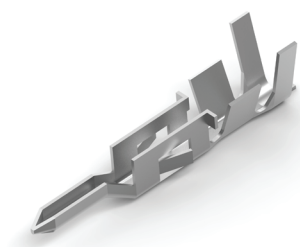
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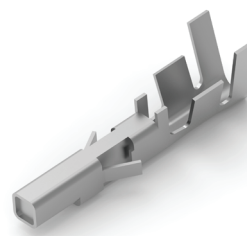
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High current VAL-U-LOK pins and sockets

Description	Wire Size	TPA Compliant	Part Number	Packaging	Applicator Part Number	Hand Tool Part Number
Pin contact, high conductivity	16AWG [1.31mm ²]	No	2825206-1	Strip on reel	2151667-X	1976444-1
Socket contact, high conductivity	16AWG [1.31mm ²]	No	2825207-1	Strip on reel	2151667-X	1976444-1
Pin contact, high conductivity	16AWG [1.31mm ²]	No	2825208-1	Loose piece	2151667-X	1976444-1
Socket contact, high conductivity	16AWG [1.31mm ²]	No	2825209-1	Loose piece	2151667-X	1976444-1
Pin contact, high conductivity	22-18AWG [.33-.82mm ²]	Yes	2825210-1	Strip on reel	2151096-X	91388-1
Socket contact, high conductivity	22-18AWG [.33-.82mm ²]	Yes	2825211-1	Strip on reel	2151096-X	91388-1
Pin contact, high conductivity	22-18AWG [.33-.82mm ²]	Yes	2825212-1	Loose piece	2151096-X	91388-1
Socket contact, high conductivity	22-18AWG [.33-.82mm ²]	Yes	2825213-1	Loose piece	2151096-X	91388-1



2825206-1



2825209-1

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DESIGN-IN QUESTIONS

1. Do you need a connector rated for as much as 13 amps per line in a 4.2mm pitch?
2. Would you benefit from a header that is designed to help prevent incorrect orientation on the PC board?
3. Do you need a header that meets GWT 750°C (no flame) or UL 94 V-0 flammability?
4. Would you like a solution that offers a TPA device to help ensure that terminals are fully mated in the plug housing?

If the answers are “yes,” these new high current versions of VAL-U-LOK connectors could represent a great solution for the application.

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