

HIGH CURRENT VAL-U-LOK CONNECTOR

SUPPORTING HIGHER POWER SYSTEMS
WITH 13A MAXIMUM CURRENT RATING

PRODUCT DESCRIPTION

High current VAL-U-LOK connectors were developed to allow manufacturers using 4.2 mm centerline platforms and legacy VAL-U-LOK connector tooling to more easily design for higher power applications. These connectors offer a 13A maximum current rating, as compared to the 9A maximum rating of other VAL-U-LOK connectors, and are compatible with legacy VAL-U-LOK housings and terminal position assurance (TPA) accessories. The high current headers are offered from 2-24 positions, in a vertical configuration, and in a choice of UL 94 rated and glow wire tested (GWT*) materials. Additionally, the high current vertical headers are available with or without polarization pegs and with or without drain holes. For wire-to-board applications, the high current headers mate with legacy receptacle housings using high conductivity socket terminals. For wire-to-wire applications, high current pin and socket contacts are available for use with suitable plug and receptacle housings. The pin and socket contacts are offered to support 16 AWG and 22-18 AWG wire sizes.

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

STANDARDS & SPECIFICATIONS

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

KEY FEATURES

- 4.2 mm centerline spacing
- 13A maximum current rating
- Optional polarization pegs prevent printed circuit board (PCB) assembly errors
- Multiple flammability options, including UL 94 V-0, UL 94 V-2 and glow wire tested (GWT*)
- High current pin and socket contacts available in strip form or as loose pieces
- Backward compatibility with legacy housings and application tooling

ADDITIONAL INFORMATION

For more information about the TE Connectivity VAL-U-LOK connector offerings, please refer to these resources:

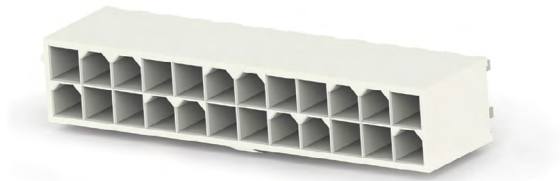
- [VAL-U-LOK Connectors Product Landing Page](#)
- [VAL-U-LOK Connectors Quick Reference Guide](#)
- [VAL-U-LOK Connectors with Terminal Position Assurance \(TPA\)](#)

*For more information on glow wire testing please review the white paper [Glow Wire Testing for the Appliance Industry](#) or visit the [Glow Wire Capable Connectors product page](#).

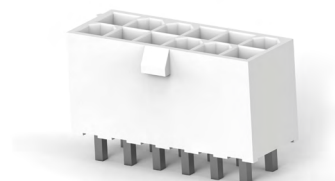
HIGH CURRENT VAL-U-LOK CONNECTOR

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
4P VERT HDR VAL-U-LOK HCS	2825260-4	4	V-0
6P VERT HDR VAL-U-LOK HCS	2825260-6	6	V-0
6P VERT HDR VAL-U-LOK HCS	2825272-6	6	GWT/V-2
8P VERT HDR VAL-U-LOK HCS	2825260-8	8	V-0
10P VERT HDR VAL-U-LOK HCS	1-2825260-0	10	V-0
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
20P VERT HDR VAL-U-LOK HCS	2-2825260-0	20	V-0
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

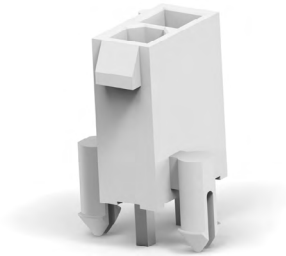
HIGH CURRENT VAL-U-LOK VERTICAL HEADERS WITH PEGS AND DRAIN HOLES

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

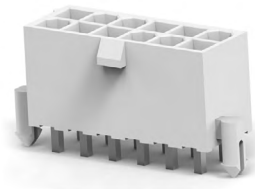
HIGH CURRENT VAL-U-LOK CONNECTOR

HIGH CURRENT VAL-U-LOK VERTICAL HEADERS WITH PEGS AND 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



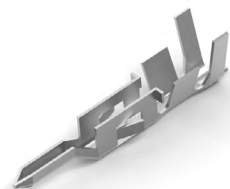
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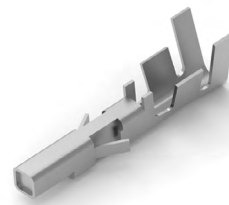
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HIGH CURRENT VAL-U-LOK PINS AND SOCKETS

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

HIGH CURRENT VAL-U-LOK CONNECTOR

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-O 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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