



## VAL-U-LOK CONNECTOR SYSTEM

The VAL-U-LOK connector system offers wire-to-wire and wire-to-board connections with contacts on a 4.20 mm [0.165] in centerline and high current product offering available up to 13 Amps per line. Plug and receptacle housings allow wire-to-wire and wire-to-panel configurations and header assemblies offer wire-to-board connections in vertical and right angle configurations. VAL-U-LOK connector system configurations are available in dual row 2-24 position and 3-5 position single row. Vertical headers are available with or without polarization pegs and with or without drain holes and offer a blind mate version. The right angle headers are available with or without screw mount flanges. Crimp, snap-in pin and socket contacts are used to terminate 26-16 [0.12-1.2 mm<sup>2</sup>] AWG wire with insulation diameters up to 3.10 mm [0.122 in].

### INDUSTRIES

- Small home appliances
- Major home appliances
- Indoor / outdoor lighting
- Security systems
- Industrial controls
- HVAC system controls
- Storage and networking systems

### FEATURES AND BENEFITS

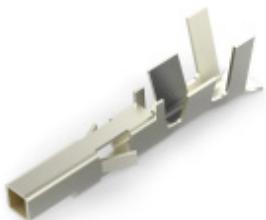
- Discrete wire interconnect available in 2-24 position
- Wire-to-wire and wire-to-board pin and socket connector system
- Contacts are on 4.20 mm centerline spacing
- Contacts are available in strip form or loose piece
- Mate first/break last feature on 3 position single row receptacle housings
- Vertical and right-angle pin headers
- Housings offered in glow wire compatible material
- UL & CSA approved

# VAL-U-LOK CONNECTOR SYSTEM

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**Pin**



**Socket**

The VAL-U-LOK pins and sockets are available in phosphor bronze and brass, with either pre-tin or gold plating. Plug housings accept the pin contacts and the receptacle housings accept the socket contacts.

## CONTACTS

Wire Range AWG	Insulation Range	Material & Finish	Pin		Socket		Applicator Part No.	Hand Tool
			Strip Form	Loose Piece	Strip Form	Loose Piece		
26-22	.047-.069 / [1.2-1.75]	Brass, Pre-Tin	<a href="#">794957-1</a>	<a href="#">1586316-1</a>	<a href="#">794958-1</a>	<a href="#">1586317-1</a>	1385448-x	<a href="#">91387-1</a>
26-22	.047-.069 / [1.2-1.75]	Phos. Brz., Pre-tin	<a href="#">794957-3</a>	<a href="#">1586316-3</a>	<a href="#">794958-3</a>	<a href="#">1586317-3</a>	1385448-x	<a href="#">91387-1</a>
26-22	.047-.069 / [1.2-1.75]	Brass, Gold	<a href="#">794957-2</a>	<a href="#">1586316-2</a>	<a href="#">794928-2</a>	-	1385448-x	<a href="#">91387-1</a>
26-22	.047-.069 / [1.2-1.75]	Phos. Brz., Gold	<a href="#">794957-4</a>	<a href="#">1586316-4</a>	<a href="#">794958-4</a>	<a href="#">1586317-4</a>	1385448-x	<a href="#">91387-1</a>
22-18	.060-.122 / [1.50-3.10]	Brass, Pre-Tin	<a href="#">794955-1</a>	<a href="#">1586314-1</a>	<a href="#">794956-1</a>	<a href="#">1586315-1</a>	1852668-x	<a href="#">91388-1</a>
22-18	.060-.122 / [1.50-3.10]	Phos. Brz., Pre-tin	<a href="#">794955-3</a>	<a href="#">1586314-3</a>	<a href="#">794956-3</a>	<a href="#">1586315-3</a>	1852668-x	<a href="#">91388-1</a>
22-18	.060-.122 / [1.50-3.10]	Brass, Gold	<a href="#">794955-2</a>	<a href="#">1586314-2</a>	<a href="#">794956-2</a>	<a href="#">1586315-2</a>	1852668-x	<a href="#">91388-1</a>
22-18	.060-.122 / [1.50-3.10]	Phos. Brz., Gold	<a href="#">794955-4</a>	<a href="#">1586314-4</a>	<a href="#">794956-4</a>	<a href="#">1586315-4</a>	1852668-x	<a href="#">91388-1</a>
16	.071-.122 / [1.8-3.10]	Brass, Pre-Tin	<a href="#">1586054-1</a>	<a href="#">1586840-1</a>	<a href="#">1586055-1</a>	<a href="#">1586841-1</a>	1852294-x	<a href="#">1976444-1</a>
16	.071-.122 / [1.8-3.10]	Phos. Brz., Pre-tin	-	<a href="#">1586840-3</a>	<a href="#">1586055-3</a>	<a href="#">1586841-2</a>	1852294-x	<a href="#">1976444-1</a>
16	.071-.122 / [1.8-3.10]	Brass, Gold	<a href="#">1586054-2</a>	<a href="#">1586840-2</a>	<a href="#">1586055-2</a>	<a href="#">1586841-3</a>	1852294-x	<a href="#">1976444-1</a>
16	.071-.122 / [1.8-3.10]	Phos. Brz., Gold	<a href="#">1586054-4</a>	<a href="#">1586840-4</a>	<a href="#">1586055-4</a>	<a href="#">1586841-4</a>	1852294-x	<a href="#">1976444-1</a>

# VAL-U-LOK CONNECTOR SYSTEM

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**Free-Hanging Plug**



**Panel Mount Plug**

Plug housings for the VAL-U-LOK product line are available in panel mount or freehanging versions. The receptacles are easy to mate and un-mate to the various plug housings and headers. They also feature a positive latch design.

## HOUSINGS

No. of Positions	Single Row	Dual Row	UL 94 V-2			UL94 V-0		
			Panel Mount	Free-Hanging	Receptacle	Panel Mount	Free-Hanging	Receptacle
2	-	X	<a href="#">794953-2</a>	<a href="#">1586000-2</a>	<a href="#">794954-2</a>	<a href="#">1586018-2</a>	<a href="#">1586017-2</a>	<a href="#">1586019-2</a>
3	X	-	<a href="#">1586101-3</a>	<a href="#">1586103-3</a>	<a href="#">1586105-3</a>	<a href="#">1586102-3</a>	<a href="#">1586104-3</a>	<a href="#">1586106-3</a>
4	X	-	<a href="#">1586022-4</a>	<a href="#">1586024-4</a>	<a href="#">1586026-4</a>	<a href="#">1586023-4</a>	<a href="#">1586024-4</a>	<a href="#">1586027-4</a>
4	-	X	<a href="#">794953-4</a>	<a href="#">1586000-4</a>	<a href="#">794954-4</a>	<a href="#">1586018-4</a>	<a href="#">1586017-4</a>	<a href="#">1586019-4</a>
5	X	-	<a href="#">1586022-5</a>	<a href="#">1586024-5</a>	<a href="#">1586026-5</a>	<a href="#">1586023-5</a>	<a href="#">1586025-5</a>	<a href="#">1586027-5</a>
6	-	X	<a href="#">794953-6</a>	<a href="#">1586000-6</a>	<a href="#">794954-6</a>	<a href="#">1586018-6</a>	<a href="#">1586017-6</a>	<a href="#">1586019-6</a>
8	-	X	<a href="#">794953-8</a>	<a href="#">1586000-8</a>	<a href="#">794954-8</a>	<a href="#">1586018-8</a>	<a href="#">1586017-8</a>	<a href="#">1586019-8</a>
10	-	X	<a href="#">1-794953-0</a>	<a href="#">1-1586000-0</a>	<a href="#">1-794954-0</a>	<a href="#">1-1586018-0</a>	<a href="#">1-1586017-0</a>	<a href="#">1-1586019-0</a>
12	-	X	<a href="#">1-794953-2</a>	<a href="#">1-1586000-2</a>	<a href="#">1-794954-2</a>	<a href="#">1-1586018-2</a>	<a href="#">1-1586017-2</a>	<a href="#">1-1586019-2</a>
14	-	X	<a href="#">1-794953-4</a>	<a href="#">1-1586000-4</a>	<a href="#">1-794954-4</a>	<a href="#">1-1586018-4</a>	<a href="#">1-1586017-4</a>	<a href="#">1-1586019-4</a>
16	-	X	<a href="#">1-794953-6</a>	<a href="#">1-1586000-6</a>	<a href="#">1-794954-6</a>	<a href="#">1-1586018-6</a>	<a href="#">1-1586017-6</a>	<a href="#">1-1586019-6</a>
18	-	X	<a href="#">1-794953-8</a>	<a href="#">1-1586000-8</a>	<a href="#">1-794954-8</a>	<a href="#">1-1586018-8</a>	<a href="#">1-1586017-8</a>	<a href="#">1-1586019-8</a>
20	-	X	<a href="#">2-794953-0</a>	<a href="#">2-1586000-0</a>	<a href="#">2-794954-0</a>	<a href="#">2-1586018-0</a>	<a href="#">2-1586017-0</a>	<a href="#">2-1586019-0</a>
22	-	X	<a href="#">2-794953-2</a>	<a href="#">2-1586000-2</a>	<a href="#">2-794954-2</a>	<a href="#">2-1586018-2</a>	<a href="#">2-1586017-2</a>	<a href="#">2-1586019-2</a>
24	-	X	<a href="#">2-794953-4</a>	<a href="#">2-1586000-4</a>	<a href="#">2-794954-4</a>	<a href="#">2-1586018-4</a>	<a href="#">2-1586017-4</a>	<a href="#">2-1586019-4</a>

## VAL-U-LOK CONNECTOR SYSTEM

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### RECEPTACLE & PLUG HOUSINGS (DUAL ROW) GLOW WIRE

No. of Positions	Receptacles	Plugs	
		Free-Hanging	Panel Mount
2	<a href="#">1586765-2</a>	<a href="#">1586862-2</a>	<a href="#">1586861-2</a>
4	<a href="#">1586765-4</a>	<a href="#">1586862-4</a>	<a href="#">1586861-4</a>
6	<a href="#">1586765-6</a>	<a href="#">1586862-6</a>	<a href="#">1586861-6</a>
8	<a href="#">1586765-8</a>	<a href="#">1586862-8</a>	<a href="#">1586861-8</a>
10	<a href="#">1-1586765-0</a>	<a href="#">1-1586862-0</a>	<a href="#">1-1586861-0</a>
12	<a href="#">1-1586765-2</a>	<a href="#">1-1586862-2</a>	<a href="#">1-1586861-2</a>
14	<a href="#">1-1586765-4</a>	<a href="#">1-1586862-4</a>	<a href="#">1-1586861-4</a>
16	<a href="#">1-1586765-6</a>	<a href="#">1-1586862-6</a>	<a href="#">1-1586861-6</a>
18	<a href="#">1-1586765-8</a>	<a href="#">1-1586862-8</a>	<a href="#">1-1586861-8</a>
20	<a href="#">2-1586765-0</a>	<a href="#">2-1586862-0</a>	<a href="#">2-1586861-0</a>
22	<a href="#">2-1586765-2</a>	<a href="#">2-1586862-2</a>	<a href="#">2-1586861-2</a>
24	<a href="#">2-1586765-4</a>	<a href="#">2-1586862-4</a>	<a href="#">2-1586861-4</a>



First Mate/Last Break Receptacle Housing

### COLORED HOUSINGS

Color	No. of Positions	UL 94 V-2 Housings			UL 94 V-0 Housings		
		Panel Mount Plug	Free-Hanging Plug	Receptacle Housing	Panel Mount Plug	Free-Hanging Plug	Receptacle Housing
Black	2-24	x-2029088-x	x-2029027-x	x-1586075-x	x-2029035-x	x-2029028-x	x-2029029-x
Red	4-24	x-2029089-x	x-2029090-x	x-2029091-x	x-2029092-x	x-2029093-x	x-2029094-x
Blue	6-24	x-2029095-x	x-2029096-x	x-12029097-x	x-2029098-x	x-2029099-x	x-2029100-x

# VAL-U-LOK CONNECTOR SYSTEM

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## PIN HEADERS

No. of Positions	UL 94 V-2				UL 94 V-0			
	Vertical		Right Angle		Vertical		Right Angle	
	Without Pegs	With Pegs	Without Pegs	Screw Mount	Without Pegs	With Pegs	Without Pegs	Screw Mount
2	<a href="#">1586037-2</a>	<a href="#">1586039-2</a>	<a href="#">1586041-2</a>	<a href="#">1586043-2</a>	<a href="#">1586038-2</a>	<a href="#">1586040-2</a>	<a href="#">1586042-2</a>	<a href="#">1586044-2</a>
4	<a href="#">1586037-4</a>	<a href="#">1586039-4</a>	<a href="#">1586041-4</a>	<a href="#">1586043-4</a>	<a href="#">1586038-4</a>	<a href="#">1586040-4</a>	<a href="#">1586042-4</a>	<a href="#">1586044-4</a>
6	<a href="#">1586037-6</a>	<a href="#">1586039-6</a>	<a href="#">1586041-6</a>	<a href="#">1586043-6</a>	<a href="#">1586038-6</a>	<a href="#">1586040-6</a>	<a href="#">1586042-6</a>	<a href="#">1586044-6</a>
8	<a href="#">1586037-8</a>	<a href="#">1586039-8</a>	<a href="#">1586041-8</a>	<a href="#">1586043-8</a>	<a href="#">1586038-8</a>	<a href="#">1586040-8</a>	<a href="#">1586042-8</a>	<a href="#">1586044-8</a>
10	<a href="#">1-1586037-0</a>	<a href="#">1-1586039-0</a>	<a href="#">1-1586041-0</a>	<a href="#">1-1586043-0</a>	<a href="#">1-1586038-0</a>	<a href="#">1-1586040-0</a>	<a href="#">1-1586042-0</a>	<a href="#">1-1586044-0</a>
12	<a href="#">1-1586037-2</a>	<a href="#">1-1586039-2</a>	<a href="#">1-1586041-2</a>	<a href="#">1-1586043-2</a>	<a href="#">1-1586038-2</a>	<a href="#">1-1586040-2</a>	<a href="#">1-1586042-2</a>	<a href="#">1-1586044-2</a>
14	<a href="#">1-1586037-4</a>	<a href="#">1-1586039-4</a>	<a href="#">1-1586041-4</a>	<a href="#">1-1586043-4</a>	<a href="#">1-1586038-4</a>	<a href="#">1-1586040-4</a>	<a href="#">1-1586042-4</a>	<a href="#">1-1586044-4</a>
16	<a href="#">1-1586037-6</a>	<a href="#">1-1586039-6</a>	<a href="#">1-1586041-6</a>	<a href="#">1-1586043-6</a>	<a href="#">1-1586038-6</a>	<a href="#">1-1586040-6</a>	<a href="#">1-1586042-6</a>	<a href="#">1-1586044-6</a>
18	<a href="#">1-1586037-8</a>	<a href="#">1-1586039-8</a>	<a href="#">1-1586041-8</a>	<a href="#">1-1586043-8</a>	<a href="#">1-1586038-8</a>	<a href="#">1-1586040-8</a>	<a href="#">1-1586042-8</a>	<a href="#">1-1586044-8</a>
20	<a href="#">2-1586037-0</a>	<a href="#">2-1586039-0</a>	<a href="#">2-1586041-0</a>	<a href="#">2-1586043-0</a>	<a href="#">2-1586038-0</a>	<a href="#">2-1586040-0</a>	<a href="#">2-1586042-0</a>	-
22	<a href="#">2-1586037-2</a>	-	<a href="#">2-1586041-2</a>	<a href="#">2-1586043-2</a>	<a href="#">2-1586038-2</a>	<a href="#">2-1586040-2</a>	<a href="#">2-1586042-2</a>	-
24	<a href="#">2-1586037-4</a>	<a href="#">2-1586039-4</a>	<a href="#">2-1586041-4</a>	<a href="#">2-1586043-4</a>	<a href="#">2-1586038-4</a>	<a href="#">2-1586040-4</a>	<a href="#">2-1586042-4</a>	-

## BLINDMATE HEADERS

No. of Positions	UL 94 V-2		UL 94 V-0	
	With Drain Holes	Without Drain Holes	With Drain holes	Without Drain Holes
2	-	-	-	-
4	-	<a href="#">1586586-4</a>	-	<a href="#">1586588-4</a>
6	<a href="#">1586585-6</a>	<a href="#">1586586-6</a>	-	-
8	-	-	-	-
10	-	-	-	-
12	-	-	-	-
14	-	-	-	<a href="#">1-1586588-4</a>
16	<a href="#">1-1586585-6</a>	<a href="#">1-1586586-6</a>	-	-
18	-	-	-	-
20	-	-	-	-
22	-	-	-	-
24	-	-	<a href="#">2-1586587-4</a>	-

# VAL-U-LOK CONNECTOR SYSTEM

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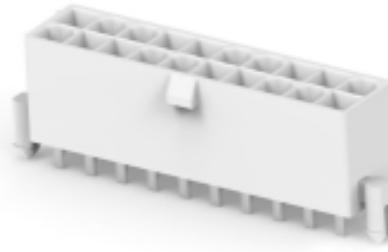
## SINGLE ROW VERTICAL HEADERS

No. of Positions	UL 94 V2 Housings		UL 94 VO Housings	
	With Drain Holes	Without Drain Holes	With Drain holes	Without Drain Holes
3	<a href="#">2029054-3</a>	<a href="#">2029058-3</a>	<a href="#">2029056-3</a>	<a href="#">2029167-3</a>
4	<a href="#">2029054-4</a>	<a href="#">2029058-4</a>	<a href="#">2029056-4</a>	-
5	<a href="#">2029054-5</a>	<a href="#">2029058-5</a>	<a href="#">2029056-5</a>	-

## MATING RECEPTACLE HOUSINGS

No. of Positions	UL 94 V2 housings	UL 94 VO housings
3	<a href="#">1586105-3</a>	<a href="#">1586106-3</a>
4	<a href="#">1586026-4</a>	<a href="#">1586027-4</a>
5	<a href="#">1586026-5</a>	<a href="#">1586027-5</a>

VAL-U-LOK headers are available in both right angle and vertical mount for added flexibility in your board design. Vertical headers are available with or without mounting pegs.



## HEADERS (DUAL ROW) GLOW WIRE

No. of Positions	Vertical w/out pegs; w/ drain holes	Vertical w/ pegs; w/ drain holes	Vertical w/ pegs; w/out drain holes	Right Angle w/out pegs
2	<a href="#">1586768-2</a>	<a href="#">2029059-2</a>	<a href="#">2029265-2</a>	<a href="#">1586863-2</a>
4	<a href="#">1586768-4</a>	<a href="#">2029059-4</a>	<a href="#">2029265-4</a>	<a href="#">1586863-4</a>
6	<a href="#">1586768-6</a>	<a href="#">2029059-6</a>	<a href="#">2029265-6</a>	<a href="#">1586863-6</a>
8	<a href="#">1586768-8</a>	<a href="#">2029059-8</a>	<a href="#">2029265-8</a>	<a href="#">1586863-8</a>
10	<a href="#">1-1586768-0</a>	<a href="#">1-2029059-0</a>	<a href="#">1-2029265-0</a>	<a href="#">1-1586863-0</a>
12	<a href="#">1-1586768-2</a>	<a href="#">1-2029059-2</a>	<a href="#">1-2029265-2</a>	<a href="#">1-1586863-2</a>
14	<a href="#">1-1586768-4</a>	<a href="#">1-2029059-4</a>	<a href="#">1-2029265-4</a>	<a href="#">1-1586863-4</a>
16	<a href="#">1-1586768-6</a>	<a href="#">1-2029059-6</a>	<a href="#">1-2029265-6</a>	<a href="#">1-1586863-6</a>
18	<a href="#">1-1586768-8</a>	<a href="#">1-2029059-8</a>	<a href="#">1-2029265-8</a>	<a href="#">1-1586863-8</a>
20	<a href="#">2-1586768-0</a>	<a href="#">2-2029059-0</a>	<a href="#">2-2029265-0</a>	<a href="#">2-1586863-0</a>
22	<a href="#">2-1586768-2</a>	<a href="#">2-2029059-2</a>	<a href="#">2-2029265-2</a>	<a href="#">2-1586863-2</a>
24	<a href="#">2-1586768-4</a>	<a href="#">2-2029059-4</a>	<a href="#">2-2029265-4</a>	<a href="#">2-1586863-4</a>

# VAL-U-LOK CONNECTOR SYSTEM

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VAL-U-LOK right angle headers are available with or without screw mount. Blind mate headers are also available.

## SINGLE ROW RIGHT ANGLE HEADERS

No. of Positions	UL 94 V2 Housings	UL 94 VO Housings
	With Pegs	With Pegs
3	<a href="#">2029150-3</a>	<a href="#">2029151-3</a>
4	<a href="#">2029150-4</a>	<a href="#">2029151-4</a>
5	<a href="#">2029150-5</a>	<a href="#">2029151-5</a>

## QUESTIONS THAT WILL HELP YOU BETTER SELECT THE PRODUCT THAT YOU NEED:

### What are the current and voltage requirements for your application?

The VAL-U-LOK connector system has a maximum current rating of 9 Amps per line and is rated for 600 VAC.

### What are the wire type and size requirements?

The VAL-U-LOK connector system contacts are approved for use with 3 different wire ranges from 26 AWG [0.12] to 16 AWG [1.20] wire with a maximum insulation diameter of 3.10 [0.122].

### What are the number of positions?

The VAL-U-LOK connector system is available in wire-to-board and wire-to-wire, free-hanging or panel mount options in 2-24 position dual row and 3-5 position singlerow configurations.

### What are the operating temperature requirements?

The VAL-U-LOK connector system has a maximum operating temperature of 105°C. For more information regarding operating temperatures refer to Product Specification 108-2112.

Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined [www.te.com/leadfree](http://www.te.com/leadfree)

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