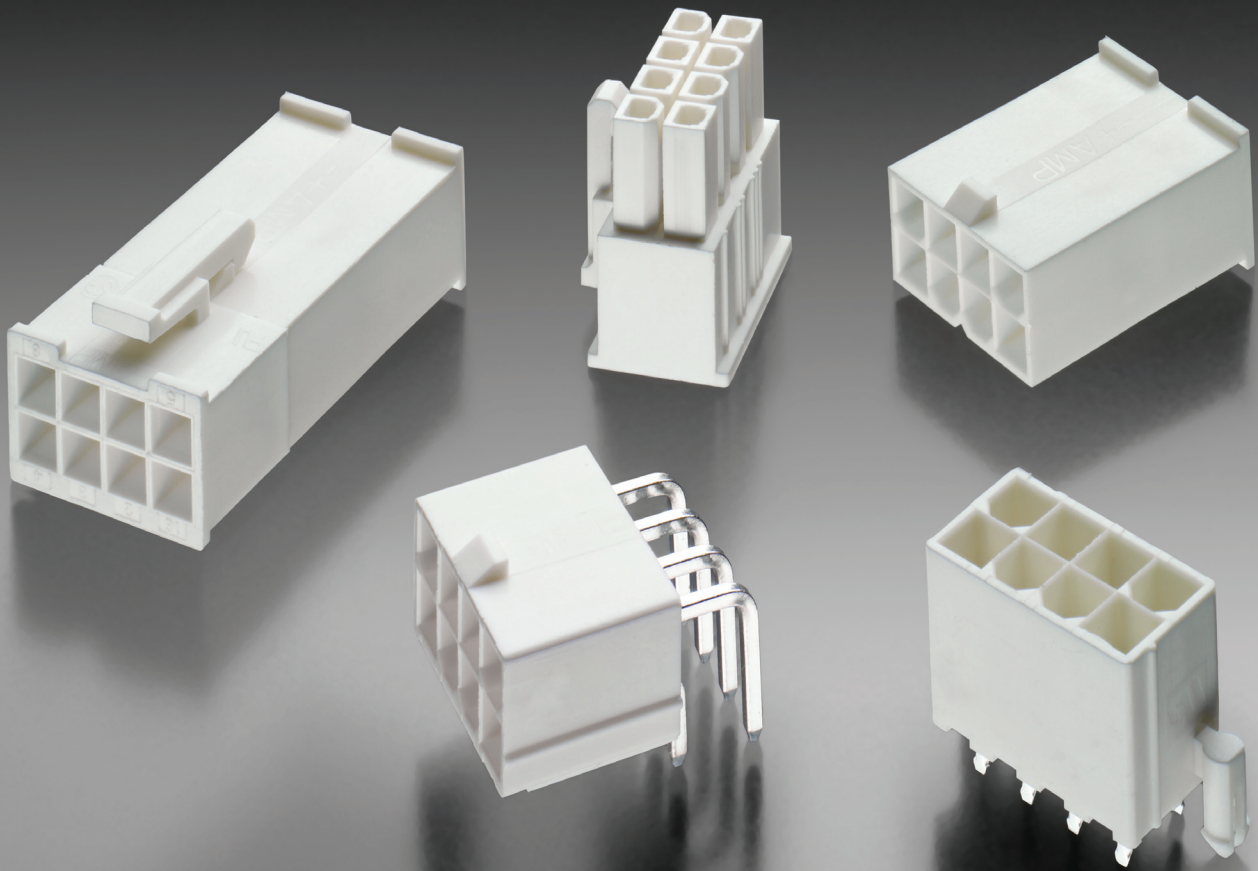




## Introducing VAL-U-LOK Glow Wire Connectors

# VAL-U-LOK Glow Wire Connectors

## KEY FEATURES

- Meets the requirement of IEC 60335-1
- Mates to standard VAL-U-LOK and Molex Mini-Fit Jr. housings.
- Compatible with standard VAL-U-LOK contacts.

## DESCRIPTIONS

VAL-U-LOK connector housings and headers are now available in special Glow Wire compatible material. Glow Wire is a test required by IEC/EN 60335-1 4th Edition: Household and Similar Appliances – Safety. VAL-U-LOK Glow Wire connectors allow manufacturers of home appliances sold into the European market to comply with this standard.

## APPLICATIONS

Household Appliances :

- Air Conditioning
- Dishwasher
- Dryers
- Ovens
- Refrigerators
- Washing Machines

## ELECTRICAL

Voltage : 600 VAC

Current : 9 amps max. in 2-position applications

Dielectric Withstanding Voltage : 1500 VAC min.

Insulation Resistance : 1000 megohms min.

Operating Temperature : -40°C to +105°C [-40°F to +221°F]

## MECHANICAL

Connector Mating : 1.55 lb. [6.90 N] max. per circuit

Connector Unmating : .11 lb. [.49 N] min. per circuit

Contact Retention : 4.88 lb. [21.71 N] min. per contact

Durability : 30 cycles, mating and unmating

## MATERIALS

Housings : Glow Wire Compatible

Contacts : Brass or Phos. Bronze with tin plating (Lead-Free) or gold plating

# VAL-U-LOK Glow Wire Connectors

## PRODUCT OFFERING

### Receptacle and Plug Housing (Dual Row)

| A Receptacles       |             | B Plugs     |              |
|---------------------|-------------|-------------|--------------|
| Number of Positions |             | Panel Mount | Free Hanging |
| 2                   | 1586765-2   | 1586861-2   | 1586862-2    |
| 4                   | 1586765-4   | 1586861-4   | 1586862-4    |
| 6                   | 1586765-6   | 1586861-6   | 1586862-6    |
| 8                   | 1586765-8   | 1586861-8   | 1586862-8    |
| 10                  | 1-1586765-0 | 1-1586861-0 | 1-1586862-0  |
| 12                  | 1-1586765-2 | 1-1586861-2 | 1-1586862-2  |
| 14                  | 1-1586765-4 | 1-1586861-4 | 1-1586862-4  |
| 16                  | 1-1586765-6 | 1-1586861-6 | 1-1586862-6  |
| 18                  | 1-1586765-8 | 1-1586861-8 | 1-1586862-8  |
| 20                  | 2-1586765-0 | 2-1586861-0 | 2-1586862-0  |
| 22                  | 2-1586765-2 | 2-1586861-2 | 2-1586862-2  |
| 24                  | 2-1586765-4 | 2-1586861-4 | 2-1586862-4  |

### Receptacle and Plug Housing (Single Row)

| A Receptacles       |           | B Plugs     |              |
|---------------------|-----------|-------------|--------------|
| Number of Positions |           | Panel Mount | Free Hanging |
| 3                   | 2029112-3 | 2029110-3   | 2029111-3    |
| 4                   | 2029178-4 | 2029177-4   | 2029180-4    |
| 5                   | 2029178-5 | 2029177-5   | 2029180-5    |

### Headers (Dual Row)

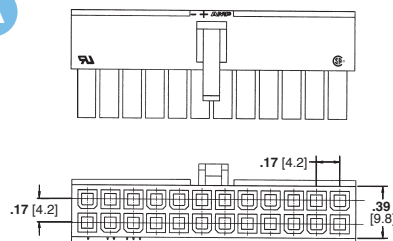
| Headers (Dual Row)  |                          | C                       |                          | D                    |
|---------------------|--------------------------|-------------------------|--------------------------|----------------------|
| Number of Positions | Vertical w/o pegs w/ dh* | Vertical w/ pegs w/ dh* | Vertical w/ pegs w/o dh* | Right Angle w/o pegs |
| 2                   | 1586768-2                | 2029059-2               | 2029265-2                | 1586863-2            |
| 4                   | 1586768-4                | 2029059-4               | 2029265-4                | 1586863-4            |
| 6                   | 1586768-6                | 2029059-6               | 2029265-6                | 1586863-6            |
| 8                   | 1586768-8                | 2029059-8               | 2029265-8                | 1586863-8            |
| 10                  | 1-1586768-0              | 1-2029059-0             | 1-2029265-0              | 1-1586863-0          |
| 12                  | 1-1586768-2              | 1-2029059-2             | 1-2029265-2              | 1-1586863-2          |
| 14                  | 1-1586768-4              | 1-2029059-4             | 1-2029265-4              | 1-1586863-4          |
| 16                  | 1-1586768-6              | 1-2029059-6             | 1-2029265-6              | 1-1586863-6          |
| 18                  | 1-1586768-8              | 1-2029059-8             | 1-2029265-8              | 1-1586863-8          |
| 20                  | 2-1586768-0              | 2-2029059-0             | 2-2029265-0              | 2-1586863-0          |
| 22                  | 2-1586768-2              | 2-2029059-2             | 2-2029265-2              | 2-1586863-2          |
| 24                  | 2-1586768-4              | 2-2029059-4             | 2-2029265-4              | 2-1586863-4          |

### Headers (Single Row)

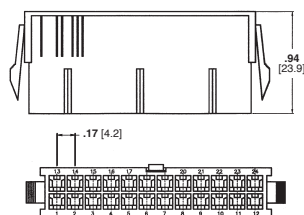
| Headers (Single Row) |  | C                      | D                       |                     |
|----------------------|--|------------------------|-------------------------|---------------------|
| Number of Positions  |  | Vertical w/ pegs w/ dh | Vertical w/ pegs w/o dh | Right Angle w/ pegs |
| 3                    |  | 2029113-3              | 2029181-3               | 2029154-3           |
| 4                    |  | 2029113-4              | 2029181-4               | 2029154-4           |
| 5                    |  | 2029113-5              | 2029181-5               | 2029154-5           |

\*dh indicates drain holes

A

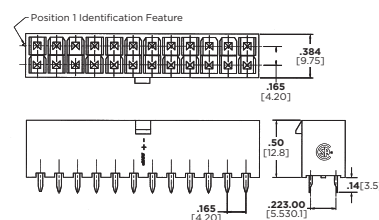


B

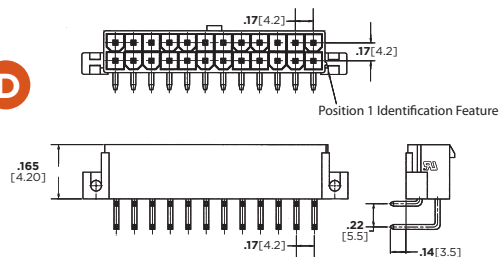


For additional product information including crimp contact selection, please go to [www.tycoelectronics.com](http://www.tycoelectronics.com). Search keyword VAL-U-LOK.

C



D



## FOR MORE INFORMATION

### Technical Support

|                |                                                                                        |
|----------------|----------------------------------------------------------------------------------------|
| Internet:      | <a href="http://www.tycoelectronics.com">www.tycoelectronics.com</a>                   |
| E-mail:        | <a href="mailto:product.info@tycoelectronics.com">product.info@tycoelectronics.com</a> |
| USA:           | 1-800-522-6752                                                                         |
| Canada:        | 1-905-470-4425                                                                         |
| Mexico:        | 1-800-733-8926                                                                         |
| C. America:    | 52-55-1106-0803                                                                        |
| South America: | 55-11-2103-6000                                                                        |
| Hong Kong:     | 852-2735-1628                                                                          |
| Japan:         | 81-44-844-8013                                                                         |
| UK:            | 44-8706-080208                                                                         |

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