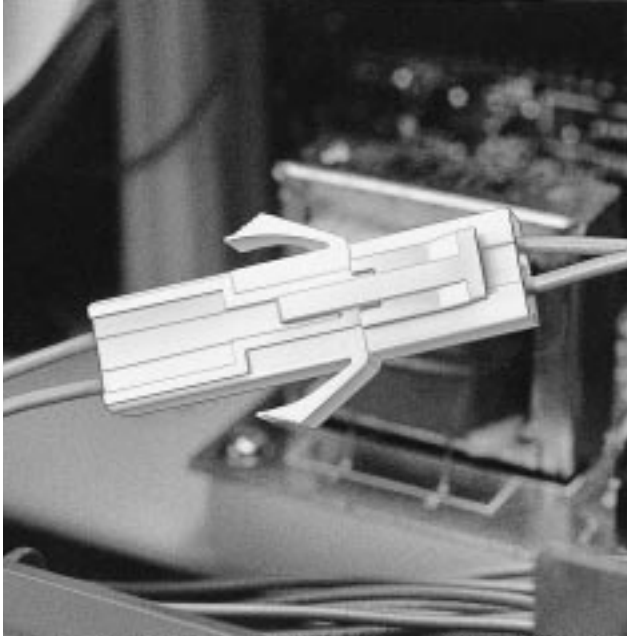
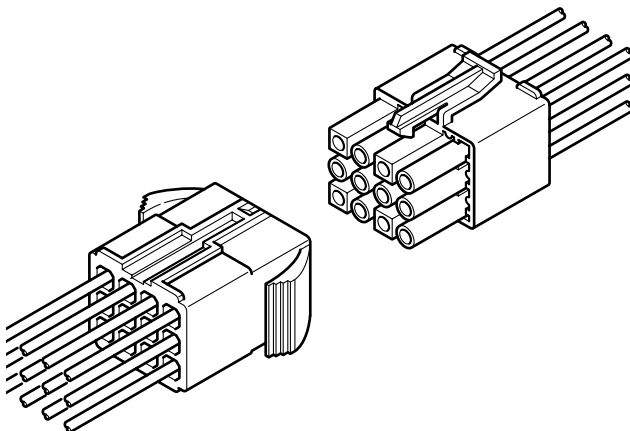


# EL CONNECTOR

Disconnectable Crimp style wire-to-wire connectors



The contacts for the compact EL connector can be easily inserted into the connector housings. The plug housing and the receptacle housing can be smoothly mated even if they are mechanically distorted.



## Features

### • Easy insertion and secure installation of contacts

Each contact has a pair of locking lances so that the contact can be installed and symmetrically locked in the housing. A lance retraction prevention mechanism is also provided so that the contact will be securely held in the housing. The lances have sufficient clearance to allow the contacts to be easily inserted into the housing.

### • A smooth connection even when pried during mating

The contact is held by the housing along a wide surface area. This reduces the deflection of the contact and ensures a smooth, safe connection even when pried during mating.

### • Durable arm lock mechanism

The arm lock mechanism of the housing is slit to prevent stress concentration during connection. Thus, it is highly durable and will survive repeated matings.

### • Two contact styles

Two different kinds of crimp contacts are available for convenient branching or internal jumpering. The current rating differs depending on the number of circuits and the wire size used in each connector. The table below lists the current rating as a function of the number of circuits and the wire size.

Current unit:A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	4	3
3	10	6	5	4	4	3
4	10	6	5	4	4	3
6	8	5	4	3	3	3
9	6	4	3	3	2	2
12	6	4	3	3	2	2
15	6	4	3	3	2	2

## Specifications

- Current rating: 10.0A AC, DC max.
  - Voltage rating: 300V AC, DC max.
  - Temperature range: -25°C to +90°C  
(including temperature rise in applying electrical current)
  - Contact resistance: Initial value/7m Ω max.  
After environmental testing/10m Ω max.
  - Insulation resistance: 1,000MΩ min.
  - Withstanding voltage: 1,500V AC/minute
  - Applicable wire: AWG #26 to #16  
0.13 to 1.25mm<sup>2</sup>
  - Applicable panel thickness: 0.8 to 2.0mm(.031" to .079")
- \* Contact JST for details.

## Standards

Recognized file No. E60389

Certified file No. LR20812

File No. R75052 (conforms to DIN/VDE 0627)

Approved according to DIN/VDE 0627<Reg. No. 3616>

Current rating: AC 250V, DC 300V

Voltage rating: 6A, 5A, 4A, 3A

Insulation group: B

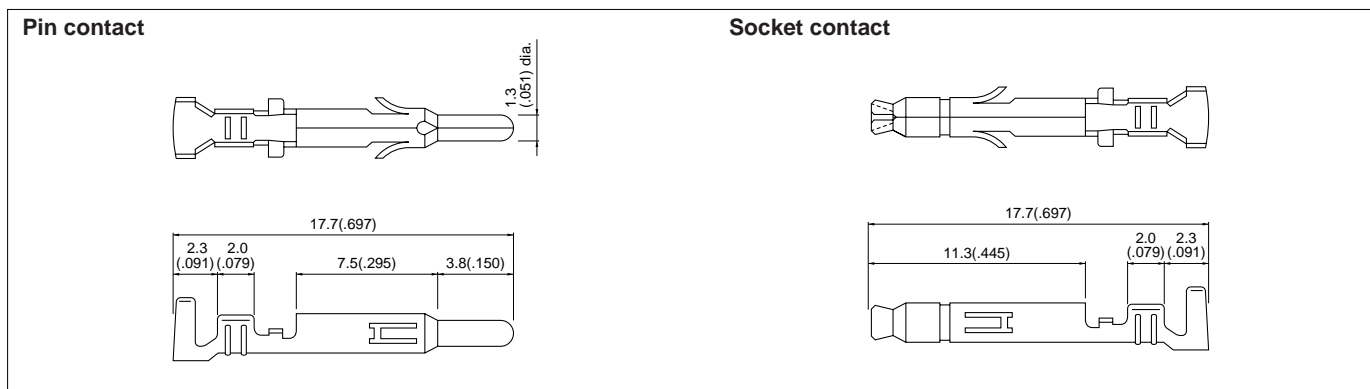
Kind of protection: IP 00

Applicable wires: AWG 18-26

Creepage current stability: KB 380

# EL CONNECTOR

## Contact



Model No.		Applicable wire			Q'ty / reel
Pin contact	Socket contact	mm <sup>2</sup>	AWG #	Insulation O.D. mm(in.)	
<b>SLM-01T-P1.3E</b>	<b>SLF-01T-P1.3E</b>	0.13 to 0.5	26 to 20	1.3 to 2.7 (.051 to .106)	6,000
<b>SLM-41T-P1.3E</b>	<b>SLF-41T-P1.3E</b>	0.5 to 1.25	20 to 16	1.9 to 3.4 (.075 to .134)	
<b>*SLM-42T-P1.3E</b>	<b>*SLF-42T-P1.3E</b>	0.3+0.3 to 0.5+0.5	22+22 to 20+20	1.7+1.7 to 2.0+2.0 (.067+.067 to .079+.079)	

### Material and Finish

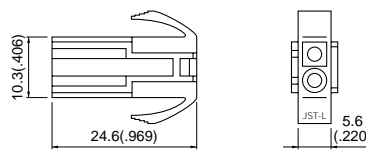
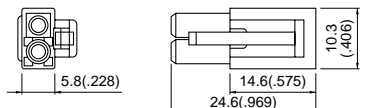
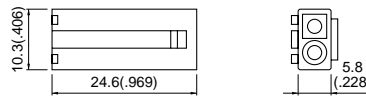
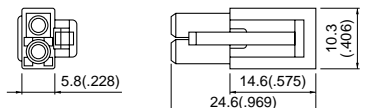
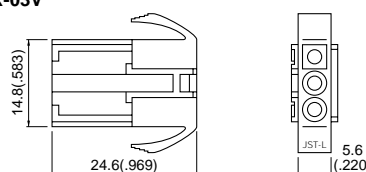
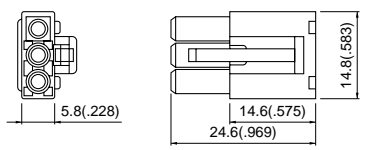
Phosphor bronze, tin-plated

### Note:

- Contact denoted by \* is used for two wires, and not TÜV approved.
- Contact JST for special products.

## Housing

Material: Nylon 6, UL94V-0, white

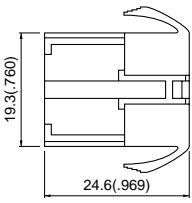
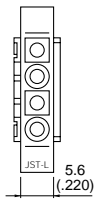
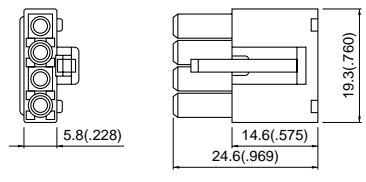
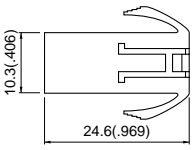
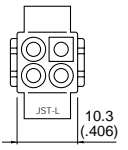
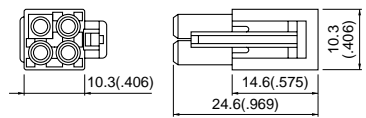
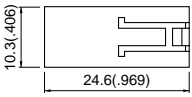
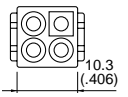
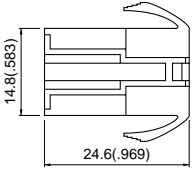
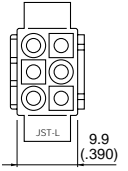
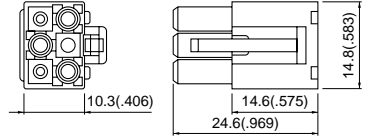
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
			Model No.	Q'ty / bag	Model No.	Q'ty / bag
2	300V	10.0A	<b>ELR-02V</b> 	500	<b>ELP-02V</b> 	500
			<b>ELR-02VF</b> 	500		
3	300V	10.0A	<b>ELR-03V</b> 	500	<b>ELP-03V</b> 	500

Note: ELR-02VF is not TÜV approved.

# EL CONNECTOR

## Housing

Material: Nylon 6, UL94V-0, white

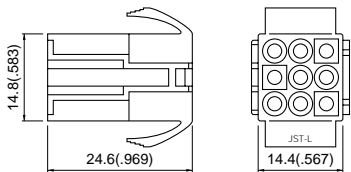
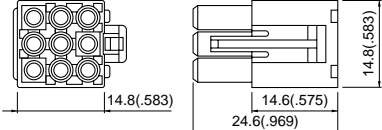
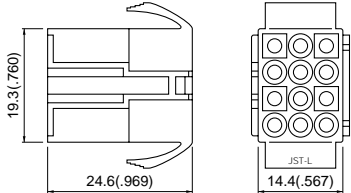
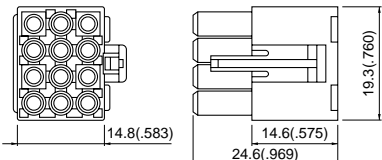
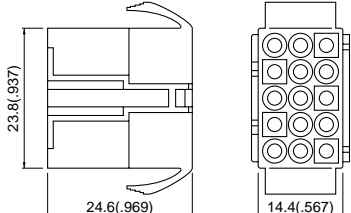
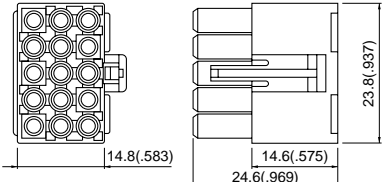
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		
4	300V	10.0A	<b>ELR-04V</b> 		<b>ELP-04V</b> 	<b>Q'ty / bag</b> 500	<b>Q'ty / bag</b> 500
			<b>ELR-04NV</b> 		<b>ELP-04NV</b> 	<b>Q'ty / bag</b> 500	<b>Q'ty / bag</b> 500
			<b>ELR-04NVF</b> 				
6	300V	8.0A	<b>ELR-06V</b> 		<b>ELP-06V</b> 	<b>Q'ty / bag</b> 500	<b>Q'ty / bag</b> 500

Note: ELR-04NUF is not TÜV approved.

# EL CONNECTOR

## Housing

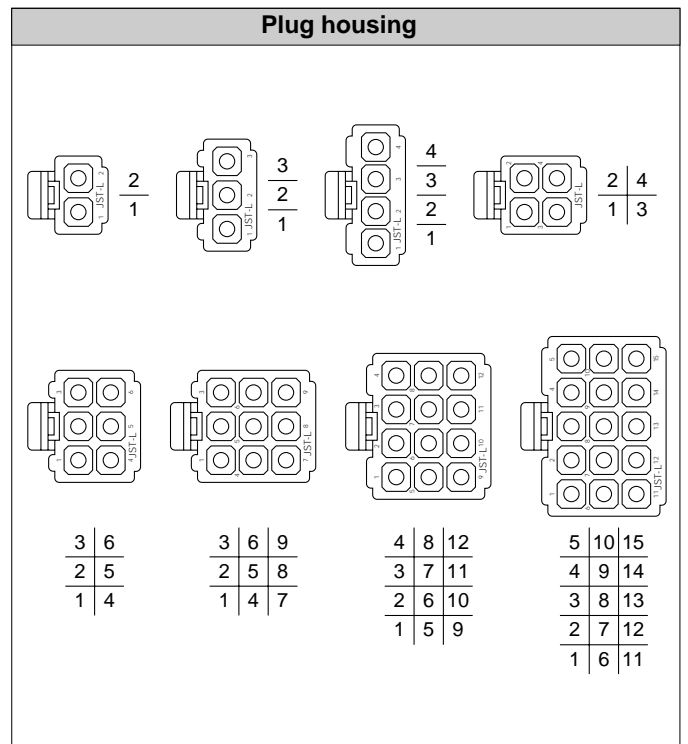
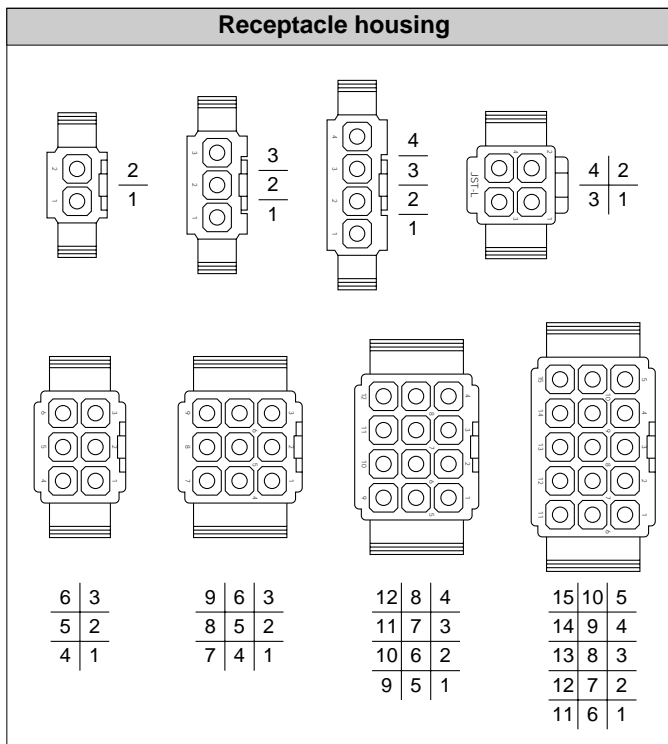
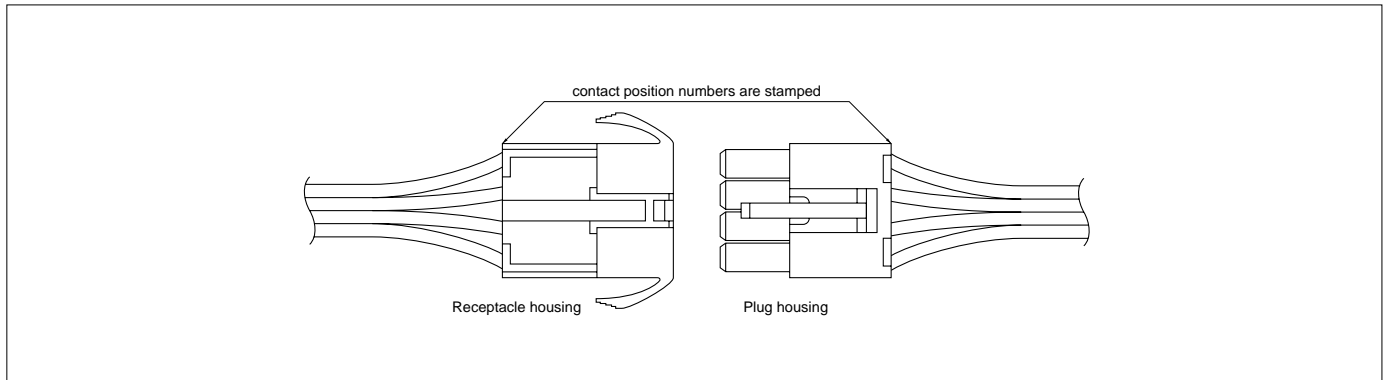
Material: Nylon 6, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Q'ty / bag	Plug housing(for socket contact)		Q'ty / bag
9	300V	6.0A			500	500	500	
12	300V	6.0A			500	500	500	
15	300V	6.0A			500	500	500	

**Note:**

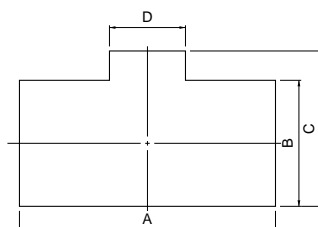
1. EL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
2. Contact JST for special products.

## Contact position location numbers



# EL CONNECTOR

## Panel Layout

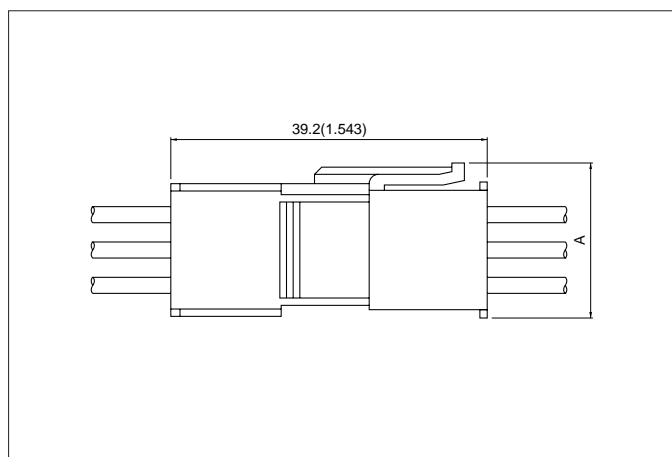


Circuits	Housing Model No.	Panel hole dimensions mm(in.)				General tolerance $\pm 0.13$ ( $\pm .005$ )	Applicable panel thickness mm(in.)
		A	B	C	D		
2	<b>ELR-02V</b>	15.0(.591)	6.0(.236)	6.85(.270)	5.2(.205)	0.8 to 2.0 (.031 to .079)	
3	<b>ELR-03V</b>	19.7(.776)	6.0(.236)	6.85(.270)	5.2(.205)		
4	<b>ELR-04V</b>	24.2(.953)	6.0(.236)	6.85(.270)	5.2(.205)		
	<b>ELR-04NV</b>	15.6(.614)	10.6(.417)	11.6(.457)	5.2(.205)		
6	<b>ELR-06V</b>	19.7(.776)	10.2(.402)	11.1(.437)	5.2(.205)		
9	<b>ELR-09V</b>	19.7(.776)	14.8(.583)	15.7(.618)	5.2(.205)		
12	<b>ELR-12V</b>	24.2(.953)	14.8(.583)	15.7(.618)	5.2(.205)		
15	<b>ELR-15V</b>	28.7(1.130)	14.8(.583)	15.7(.618)	5.2(.205)		

**Note:**

1. Punch holes in the panel according to the sketch and table shown above. Burrs must be removed.
2. The strength of the panel must be considered when punching two or more holes.
3. The connector must be inserted from the same side as the hole is punched.

## Assembly layout



Circuits	Dimensions A mm(in.)
2 to 4 (Single-line arrangement)	10.4(.409)
4 (Double-line arrangement)	15.2(.598)
6	14.9(.587)
9 to 15	19.4(.764)