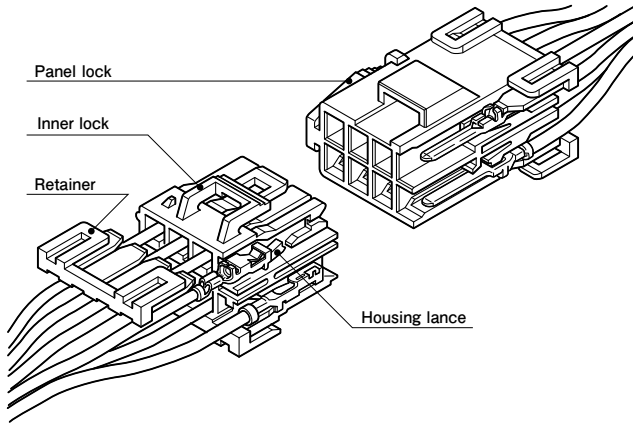


# YL CONNECTOR

4.5 mm pitch/Disconnectable Crimp style Wire-to-wire connectors



The retainer features added protection against non-insertion or disconnection.

- Housing lance
- Secondary retainers
- Inner-housing lock
- Panel lock construction

## Standards

- Recognized E60389
- Certified LR20812
- R9351052

## Specifications

- Current rating: 10 A AC/DC (7 A when retainers are mounted)
- Voltage rating: 300 V AC/DC
- Temperature range: -25°C to +90°C (including temperature rise in applying electrical current)
- Contact resistance: Initial value/ 7 mΩ max. After environmental tests/ 10 mΩ max.
- Insulation resistance: 1,000 MΩ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #26 to #16 0.13 to 1.25 mm<sup>2</sup>
- Applicable panel thickness: 0.7 to 2.0 mm

Note: The current rating varies 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

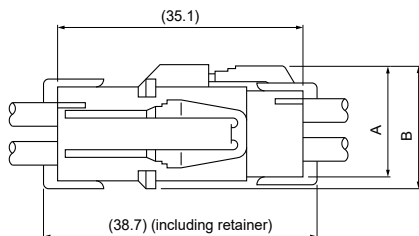
No. of circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
1	10	7	5	4	3	2
2	10	7	5	4	3	2
3	9	6	4	4	3	2
4	9	6	4	4	3	2
6	8	5	3	3	2	2
8	7	4	3	3	2	2
9	6	4	3	3	2	2
12	6	3	2	2	2	2
15	5	3	2	2	2	1
16	5	3	2	2	2	1
21	5	3	2	2	2	1

Note: Secondary retainers cannot be used with AWG #16 wires.

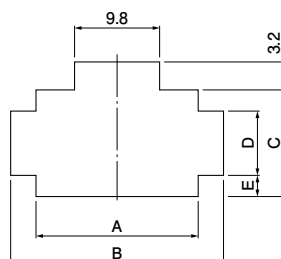
\* In using the products, refer to "Handling Precautions for Terminals and Connectors" described on our website (Technical documents of Product information page).

- \* RoHS2 compliance
- \* Dimensional unit: mm
- \* Contact JST for details.

## Panel Layout and Assembly layout



Type	No. of circuits	Dimensions (mm)	
		A	B
Single row	2 · 3	9.5	10.8
2-row	4 · 6 · 8 · 12 · 16	15.3	16.6
3-row	9 · 12 · 15 · 21	20.5	21.8



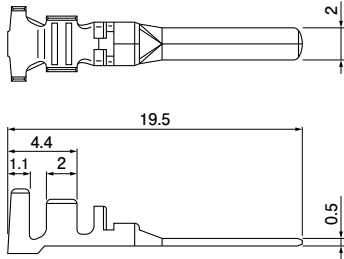
No. of circuits	Receptacle housing Model No.	Panel thickness (mm)	0.7 to 2.0		0.7 to 0.8		0.9 to 1.3		1.4 to 2.0	
			A	B	C	D <sup>±0.1</sup>	E <sup>±0.1</sup>	D <sup>±0.1</sup>	E <sup>±0.1</sup>	D <sup>±0.1</sup>
2	YLR-02V	10.7	16.8	7.1	4.4	1.35	5.0	1.05	5.6	0.75
3	YLR-03V	15.3	21.3	7.1	4.4	1.35	5.0	1.05	5.6	0.75
4	YLR-04V	10.7	16.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
6	YLR-06V	15.3	21.3	12.9	7.1	2.9	7.7	2.6	8.3	2.3
8	YLR-08V	19.8	25.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
9	YLR-09V	15.3	21.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95
12	YLR-12V	19.8	25.8	18.2	7.1	5.55	7.7	5.25	8.3	4.95
	YLR-12VA	28.9	34.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
15	YLR-15V	24.4	30.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95
16	YLR-16V	37.9	43.8	12.9	7.1	2.9	7.7	2.6	8.3	2.3
21	YLR-21V	33.5	39.3	18.2	7.1	5.55	7.7	5.25	8.3	4.95

- Note: 1. Punch holes in the panel according to the figures 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.

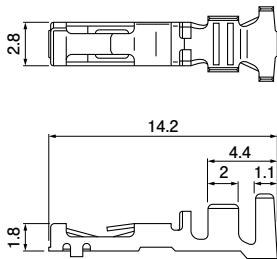
# YL CONNECTOR

## Contact

### Pin contact



### Socket contact



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/reel
Pin contact	Socket contact	mm <sup>2</sup>	AWG #		
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4,000 (SYM-01T-P0.5A) 5,000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5 ~1.25	20~16	2.0~3.4	
		*0.3+0.3~ 0.5+0.5	*22+22~ 20+20	*1.5+1.5~ 2.0+2.0	

### Material and Finish

Phosphor bronze, tin-plated (reflow treatment)

### RoHS2 compliance

Note: 1. Contact JST for special products.

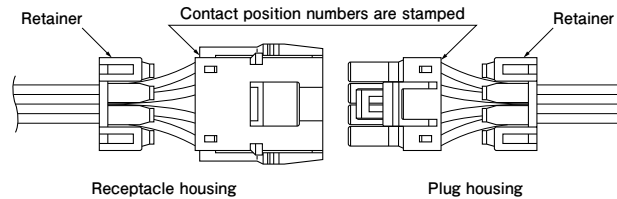
2. Retainers cannot be used with electric wire whose insulation O.D. exceeds 2.7 mm and AWG #16.

3. \*Marked products are not approved by TÜV .

Contact	Crimping machine	Applicator		
		Crimp applicator	Dies	Crimp applicator with dies
SYM-01T-P0.5A	AP-K2N	MKS-L	MK/SYF/M-01-05	APLMK SYF/M01-05
SYF-01T-P0.5A				
SYM-41T-P0.5A			MK/SYF/M-41-05	APLMK SYF/M41-05
SYF-41T-P0.5A				

Note: Contact JST for fully automatic crimping applicator.

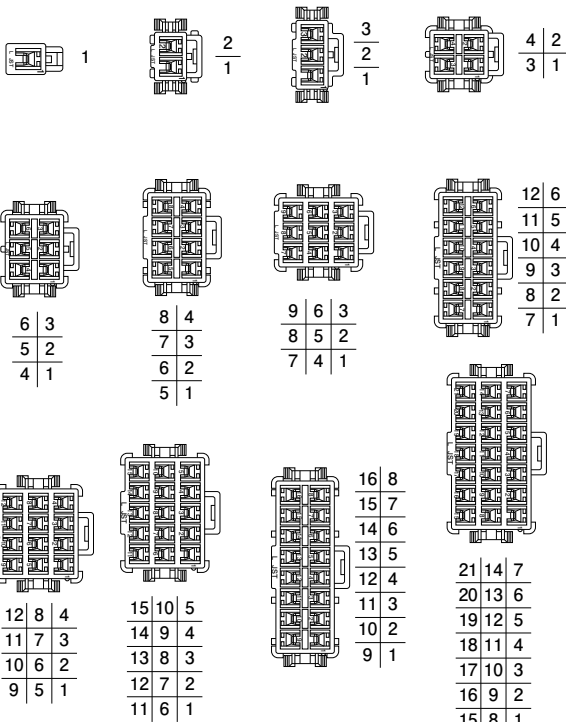
## Contact position location numbers



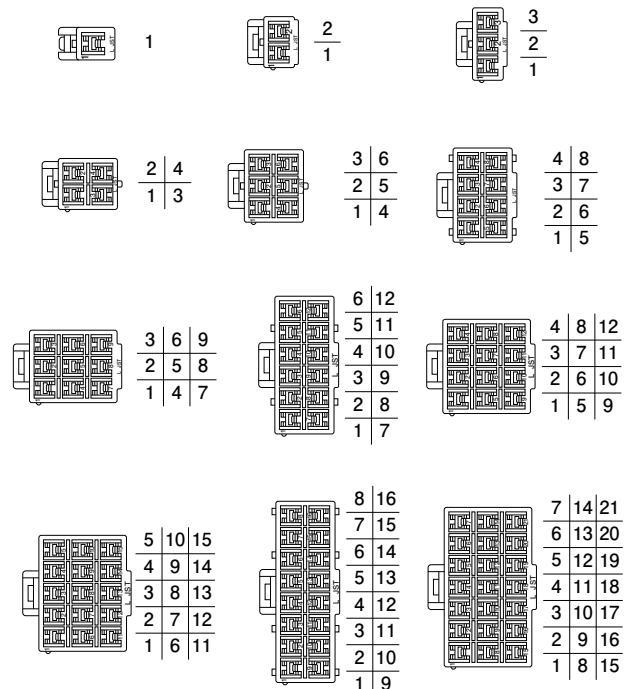
Receptacle housing

Plug housing

### Receptacle housing



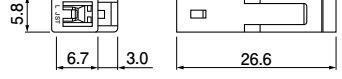
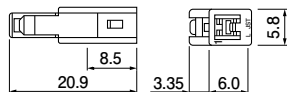
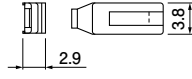
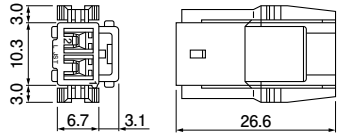

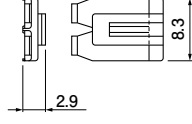
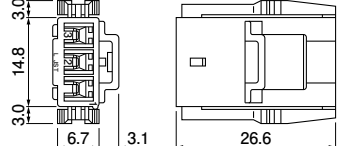
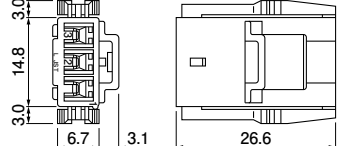
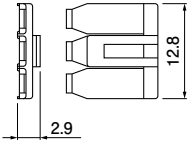
### Plug housing



# YL CONNECTOR

## Housing

Material: Housing...PA 66, UL94V-0, white  
Retainer...Glass-filled PA 66, UL94V-0, ivory

No. of circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)		Plug housing (for socket contact)		Retainer				
1	300 V	7 A (10 A)	YLR-01VF		Q'ty/ bag	YLP-01V		Q'ty/ bag	YLS-01V		Q'ty/ bag
			500	500	500	1,000					
2	300 V	7 A (10 A)	YLR-02V		Q'ty/ bag	YLP-02V		Q'ty/ bag	YLS-02V		Q'ty/ bag
			500	500	500	1,000					
3	300 V	6 A (9 A)	YLR-03V		Q'ty/ bag	YLP-03V		Q'ty/ bag	YLS-03V (commonly used for 3-circuit housing and 6-circuit housing)		Q'ty/ bag
			500	500	500	1,000					

### RoHS2 compliance

Note: 1. Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)  
2. Contact JST for Glow Wire compliant connectors.

# YL CONNECTOR

## Housing

Material: Housing...PA 66, UL94V-0, white Retaine...Glass-filled PA 66, UL94V-0, ivory

No. of circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Plug housing (for socket contact)	Retainer
4	300 V	6 A (9 A)	<b>YLR-04V</b> 	<b>YLP-04V</b> 	<b>YLS-02V</b> 
			<b>YLR-04VF</b> 		
6	300 V	5 A (8 A)	<b>YLR-06V</b> 	<b>YLP-06V</b> 	<b>YLS-03V</b> (commonly used for 3-circuit housing and 6-circuit housing) 
			<b>YLR-06VF</b> 		
8	300 V	4 A (7 A)	<b>YLR-08V</b> 	<b>YLP-08V</b> 	<b>YLS-08V</b> 
			<b>YLR-08VF</b> 		
9	300 V	4 A (6 A)	<b>YLR-09V</b> 	<b>YLP-09V</b> 	—

RoHS2 compliance

Note: 1. Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

2. Contact JST for Glow Wire compliant connectors.

## Housing

Material: Housing...PA 66, UL94V-0, white Retainer...Glass-filled PA 66, UL94V-0, ivory

No. of circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Plug housing (for socket contact)	Retainer
12	300 V	3 A (6 A)	<b>YLR-12VA</b> 	<b>YLP-12VA</b> 	<b>YLS-12V</b> 
			Q'ty/ bag	200	Q'ty/ bag
15	300 V	3 A (5 A)	<b>YLR-12V</b> 	<b>YLP-12V</b> 	—
			Q'ty/ bag	200	Q'ty/ bag
15	300 V	3 A (5 A)	<b>YLR-15V</b> 	<b>YLP-15V</b> 	—
			Q'ty/ bag	200	Q'ty/ bag
16	300 V	3 A (5 A)	<b>YLR-16V</b> 	<b>YLP-16V</b> 	<b>YLS-16V</b> 
			Q'ty/ bag	100	Q'ty/ bag

**RoHS2 compliance**

Note: 1. Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

2. Contact JST for Glow Wire compliant connectors.

# YL CONNECTOR

## Housing

Material: Housing...PA 66, UL94V-0, white

No. of circuits	Voltage rating	Current rating	Receptacle housing (for pin contact)		Plug housing (for socket contact)		Retainer			
21	300 V	3 A (5 A)	<b>YLR-21V</b> 		Q'ty/ bag	<b>YLP-21V</b> 		Q'ty/ bag	—	Q'ty/ bag
				100			200	—	—	

**RoHS2 compliance**

Note: 1. Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)

2. Contact JST for Glow Wire compliant connectors.