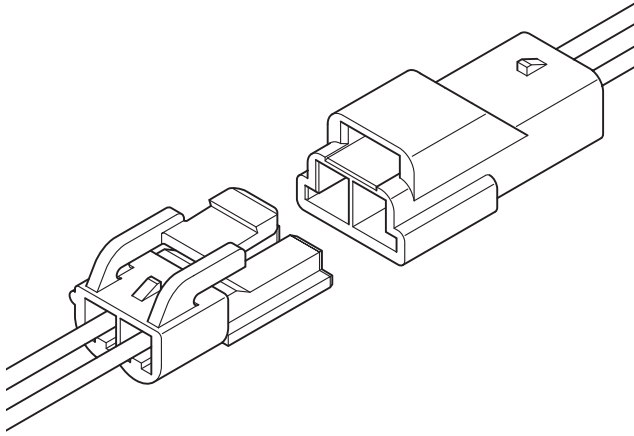




# YLN CONNECTOR

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



**The YLN connector adds variations in shape to the existing color variations of the YL connector in order to improve identification of connectors. Moreover, this connector has a mechanism to prevent incomplete mating by utilizing the inertial force generated when the plug and receptacle are mated and therefore, ensures complete mating.**

- Design to prevent incidental mating with the YL connector
- Inertial force mechanism
- Interchangeability
- Finger friendly design

## Specifications

- Current rating: 10A max. AC, DC  
(7A when retainers are mounted)
- Voltage rating: 300V max. AC, DC
- 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: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16  
0.13 to 1.25mm<sup>2</sup>
- \* Compliant with RoHS.
- \* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
- \* Contact JST for details.

*Note: 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	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

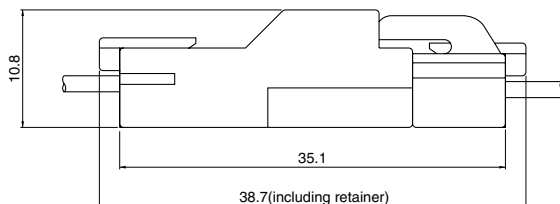
*Note: Secondary retainers cannot be used with AWG #16 wires.*

## Standards

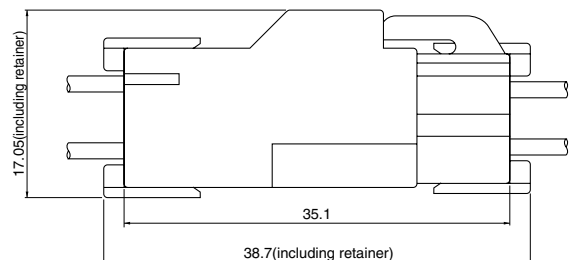
- Ⓜ Recognized E60389
- Ⓢ Certified LR20812
- ⚠ R9351052

## Assembly layout

(2, 3 circuits)



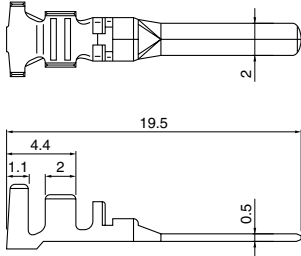
(4, 6 circuits)



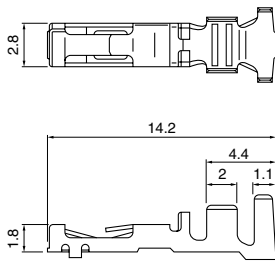
# YLN CONNECTOR

## 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 #		
<b>SYM-01T-P0.5A</b>	<b>SYF-01T-P0.5A</b>	0.13~0.5	26~20	1.3~2.5	4,000 (SYM-01T-P0.5A) 5,000
<b>SYM-41T-P0.5A</b>	<b>SYF-41T-P0.5A</b>	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)

### RoHS compliance

Note: 1. Contact JST for special products.

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

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

Note: \*Strip-crimp applicator

## Housing

Material: Housing...PA 66, UL94V-0, natural (white)

Retainer...Glass-filled PA 66, UL94V-0, natural (ivory)

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)		Retainer	
2	300V	7A (10A)	<b>YLN-02VF</b> 10.8 26.6 13.8 6.5 No.1 hole mark	Q'ty / bag 250	<b>YLN-02V</b> 10.2 20.9 11 No.1 hole mark	Q'ty / bag 500	<b>YLS-02V</b> (Used with both housings with 2 and 4 circuits) 2.9 8.3	Q'ty / bag 1,000
3	300V	6A (9A)	<b>YLN-03VF</b> 10.8 26.6 18.3 6.5 No.1 hole mark	Q'ty / bag 250	<b>YLN-03V</b> 10.2 20.9 15.5 No.1 hole mark	Q'ty / bag 500	<b>YLS-03V</b> (Used with both housings with 3 and 6 circuits) 2.9 12.8	Q'ty / bag 1,000
4	300V	6A (9A)	<b>YLN-04VF</b> 16.1 26.6 13.8 6.5 No.1 hole mark	Q'ty / bag 250	<b>YLN-04V</b> 15.3 20.9 11 No.1 hole mark	Q'ty / bag 250	<b>YLS-02V</b> (Used with both housings with 2 and 4 circuits) 2.9 8.3	Q'ty / bag 1,000
6	300V	5A (8A)	<b>YLN-06VF</b> 16.1 26.6 18.3 6.5 No.1 hole mark	Q'ty / bag 200	<b>YLN-06V</b> 15.3 20.9 15.5 No.1 hole mark	Q'ty / bag 200	<b>YLS-03V</b> (Used with both housings with 3 and 6 circuits) 2.9 12.8	Q'ty / bag 1,000

### RoHS compliance

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