

YLN CONNECTOR

4.5 mm 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: 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 m Ω max. After environmental tests/ 10 m Ω max.
- Insulation resistance: 1,000 $M\Omega$ min.
- Withstanding voltage: 1,500 VAC/minute
- Applicable wire: AWG #26 to #16
 - 0.13 to 1.25 mm²
- * 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.

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.

			i circuits a			t unit : A		
No. of 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
- A R9351052

Assembly layout

<2, 3 circuits>







YLN CONNECTOR

Contact



14.2

Mode	el No.	Applica	Applicable wire		0/1./
Pin contact	Socket contact	mm²	AWG #	Insulation O.D. (mm)	Q'ty/ reel
SYM-01T-P0.5A	SYF-01T-P0.5A	0.13~0.5	26~20	1.3~2.5	4.000
SYM-41T-P0.5A	SYF-41T-P0.5A	0.5~1.25	20~16	2.0~3.4	4,000 (SYM-01T-P0.5A) 5.000
51W-411-P0.3A	51F-411-P0.5A	0.3+0.3~ 22+22~ 1.5+1.5	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.

Contact	Crimping machine	Applicator			
Contact			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.

Housing

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					Material: HousingPA 66, RetainerGlass-	UL94 filled	4V-0, natural (white) PA 66, UL94V-0, natural	(ivory)
No. of circuits		Current rating	Receptacle housing (for pin contact)	Plug housing (for socket contact)		Retainer		
2	300 V	7 A (10 A)	YLNR-02VF	Q'ty/ bag 250	YLNP-02V	Q'ty/ bag	YLS-02V (Used with both housings with 2 and 4 circuits)	Q'ty/ bag
3	300 V	6 A (9 A)	YLNR-03VF 10.8 26.6 No.1 hole mark	Q'ty/ bag 250	YLNP-03V	Q'ty/ bag 500	YLS-03V (Used with both housings with 3 and 6 circuits)	Q'ty/ bag 1,000
4	300 V	6 A (9 A)	YLNR-04VF 16.1 1	Q'ty/ bag 250	YLNP-04V	Q'ty/ bag 250	YLS-02V (Used with both housings with 2 and 4 circuits)	Q'ty/ bag 1,000
6	300 V	5 A (8 A)	YLNR-06VF 16.1 26.6 No.1 hole mark	Q'ty/ bag 200	YLNP-06V 15.3 15.3 15.3 15.3 No.1 hole mark	Q'ty/ bag 200	YLS-03V (Used with both housings with 3 and 6 circuits)	Q'ty/ bag

RoHS2 compliance Note: Current rating in parentheses is for use with AWG #16 wire. (Retainers are not mountable.)