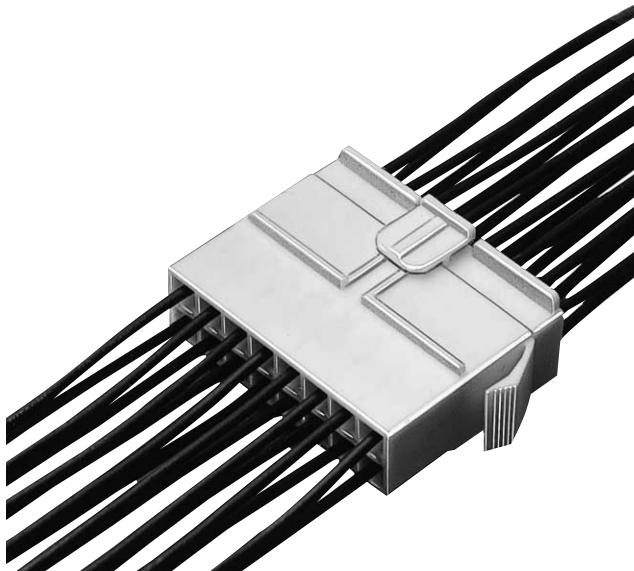
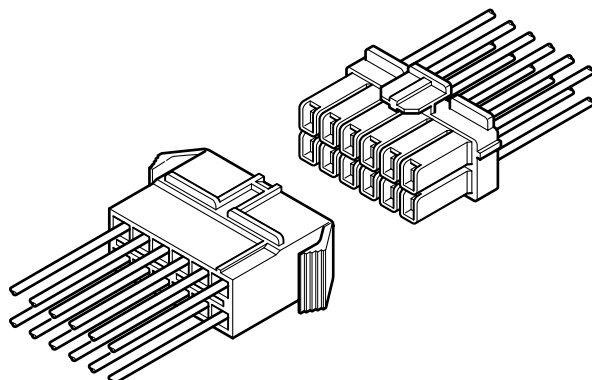


XL CONNECTOR

Disconnectable Crimp style Wire-to-wire connectors



XL connectors are reliable wire-to-wire connectors, used for such electrical and electronic equipment as home appliances, vending machines, and office machines.



Features

• **Reliable housing construction**

Since all the contacts in this connector are individually and totally surrounded by housing walls (egg-crate style), and since the contact pitch is 5.0mm (.197"), the electrical creep distances and dielectric spacings are great enough to meet most safety requirements. In addition, the housings are sturdy enough to prevent deformation and ensure smooth mating.

• **Easy contact insertion**

Contacts can be inserted into the housing easily and smoothly.

• **Box-shaped contact**

The box-shaped contact used successfully in the VH and NH connectors is used as a socket contact in the XL connectors. This contact covers a wide range of applications from low-voltage, low-current signal circuits to power supply circuits.

• **Two kinds of connections**

XL connectors can be used for wire-to-wire connection and for printed circuit board connection.

Specifications

- Current rating: 10A 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: 1,000M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #26 to #16
0.13 to 1.25mm²
- Applicable panel thickness: 0.7 to 2.4mm (.028" to .094")
- * Contact JST if Lead-Free product is required.
- * 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 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 wire size.*

Current unit: A

Circuits	Wire size (AWG)					
	#16	#18	#20	#22	#24	#26
2	10	6	5	4	3	2
4	9	5	4	3	3	2
8	6	4	3	3	2	2
12	6	4	3	3	2	2
16	5	3	2	2	1	1

Standards

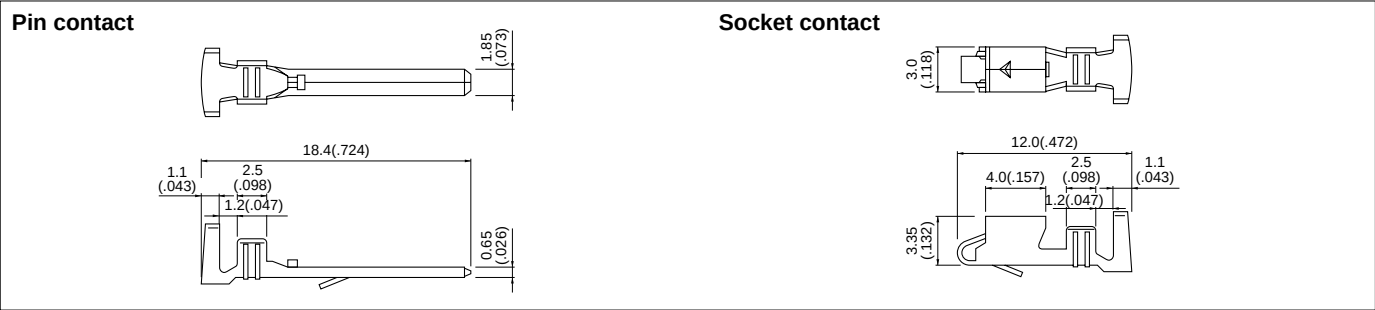
Recognized E60389

Certified LR20812

R75150

XL CONNECTOR

Contact



Model No.		Applicable wire			Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #	Insulation O.D. mm(in.)	
SYM-01T-P0.7	SXF-01T-P0.7	0.13 to 0.5	26 to 20	1.3 to 2.7 (.051 to .106)	Pin contact: SYM-01T-P0.7 6,000 SYM-41T-P0.7 4,000
SYM-41T-P0.7	SXF-41T-P0.7	0.5 to 1.25	20 to 16	1.9 to 3.1 (.075 to .122)	
		0.3 +0.3 to 0.5 +0.5	22+22 to 20+20	1.7(.067)+1.7(.067) to 2.0(.079)+2.0(.079)	Socket contact: 3,000
Material and Finish					
Phoshor bronze, tin-plated					

Note:
1. Contact JST for special products.
2. Contact JST for brass products.

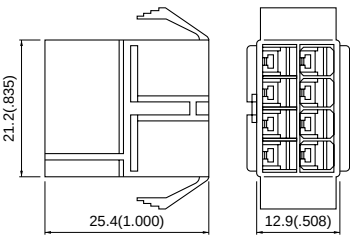
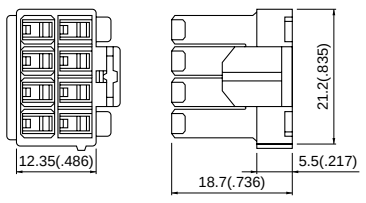
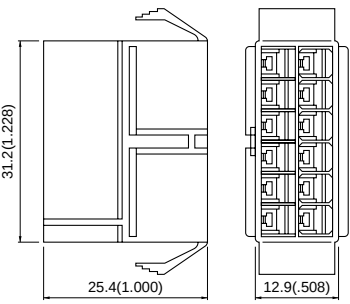
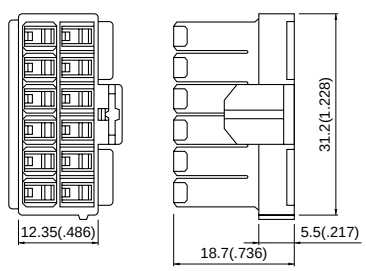
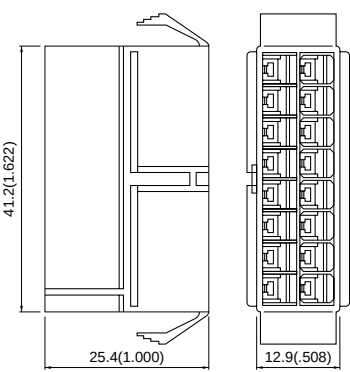
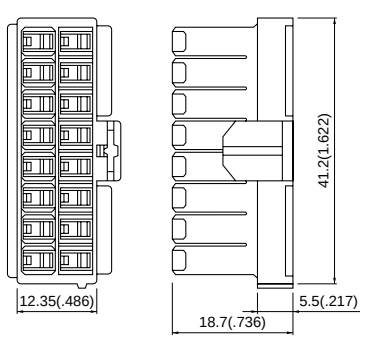
Housing

Material: Nylon 66, UL94V-0, white

Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
				Q'ty / bag		Q'ty / bag
2	300V	10A	XLR-02V	500	XLP-02V	500
4	300V	9A	XLR-04V	500	XLP-04V	500

Housing

Material: Nylon 66, UL94V-0, white

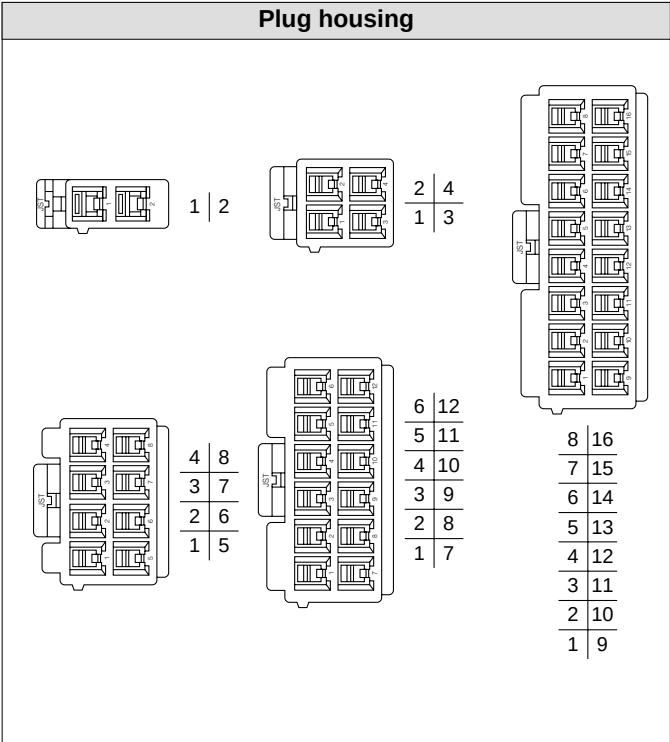
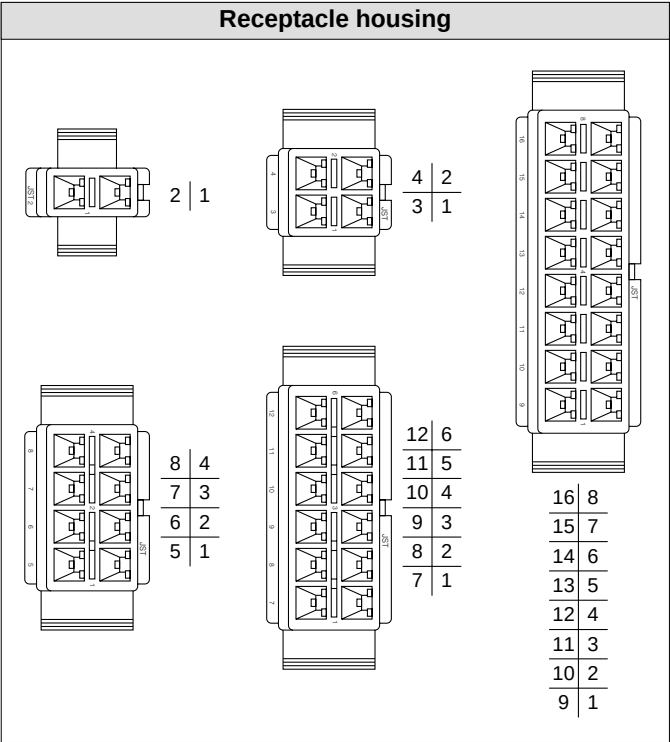
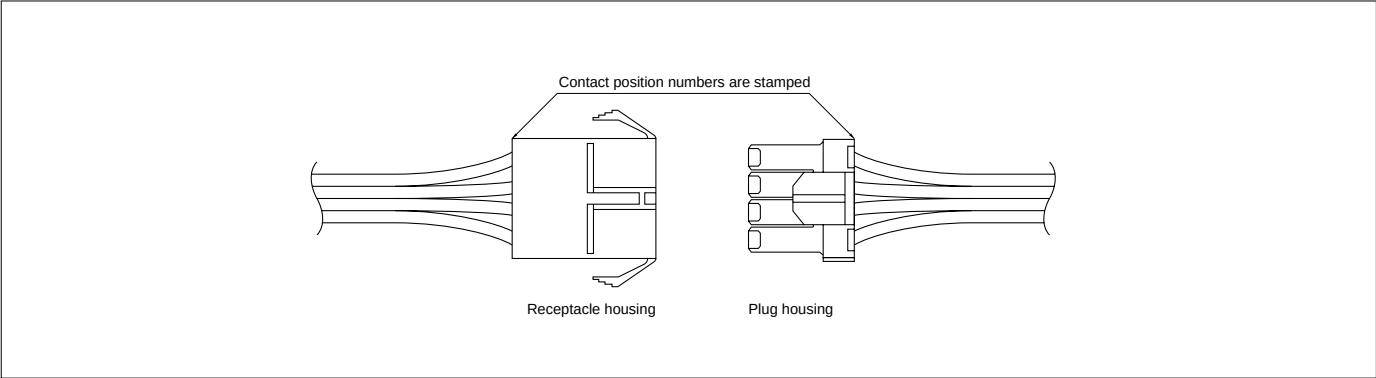
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
8	300V	6A	XLR-08V 	Q'ty / bag	XLP-08V 	Q'ty / bag
				500		500
12	300V	6A	XLR-12V 	Q'ty / bag	XLP-12V 	Q'ty / bag
				200		500
16	300V	5A	XLR-16V 	Q'ty / bag	XLP-16V 	Q'ty / bag
				100		200

Note:

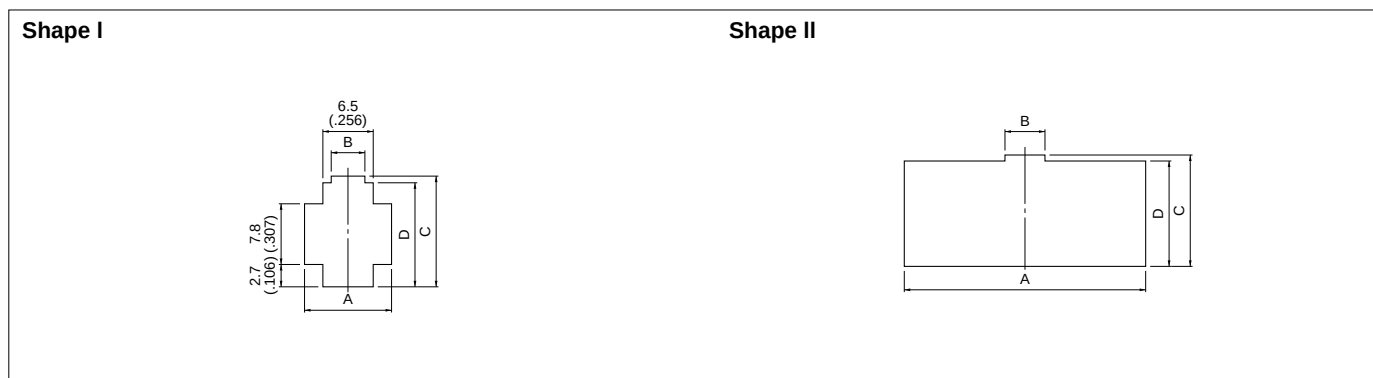
1. XL connectors with any number of circuits can be used either panel mounted or free hanging. The panel hole dimensions are given on the next page.
2. Contact JST for special products.

XL CONNECTOR

Contact position location numbers-----



Panel layout

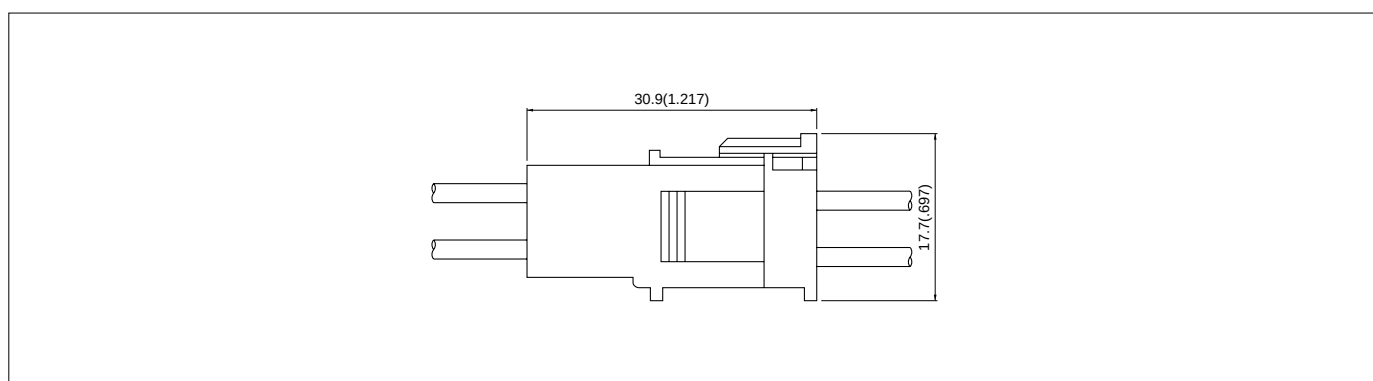


Cir- cuits	Receptacle housing	Panel hole shape	Panel dimensions mm(in.)				General tolerance $\pm 0.13(.005)$	Applicable panel thickness mm(in.)
			A	B	C	D		
2	XLR-02V	I	11.5(.453)	4.4(.173)	13.95(.549)	13.2(.520)		0.7 to 2.4 (.028 to .094)
4	XLR-04V	II	16.5(.650)	5.2(.205)	13.95(.549)	13.2(.520)		
8	XLR-08V	II	26.5(1.043)	5.2(.205)	13.95(.549)	13.2(.520)		
12	XLR-12V	II	36.5(1.437)	5.2(.205)	13.95(.549)	13.2(.520)		
16	XLR-16V	II	46.5(1.831)	5.2(.205)	13.95(.549)	13.2(.520)		

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



Applicator for the semi-automatic press AP-K2N

Contact	Crimp applicator MKS-L		Compact crimp applicator MKS-LS		Strip-crimp applicator MKS-SC
	with safety cover	without safety cover	with safety cover	without safety cover	with safety cover
SXF-01T-P0.7	APLMK SXF01-07	APLNC SXF01-07	—	—	—
SXF-41T-P0.7	APLMK SXF41-07	APLNC SXF41-07	—	—	—
SYM-01T-P0.7	APLMK SYM01-07	APLNC SYM01-07	—	—	—
SYM-41T-P0.7	APLMK SYM41-07	APLNC SYM41-07	—	—	—