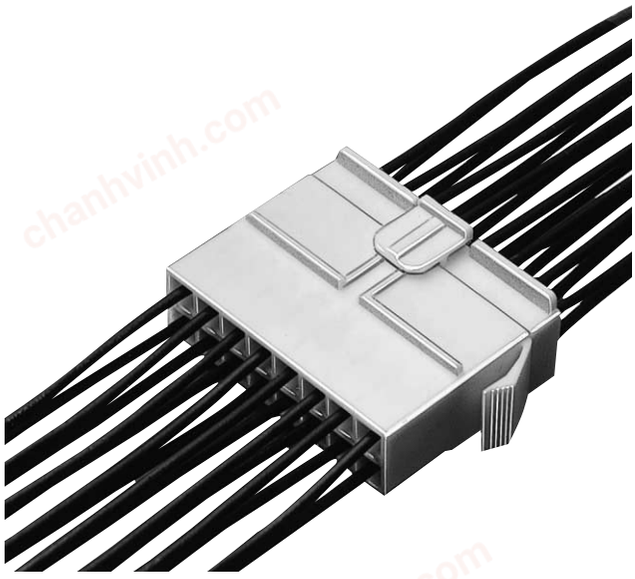
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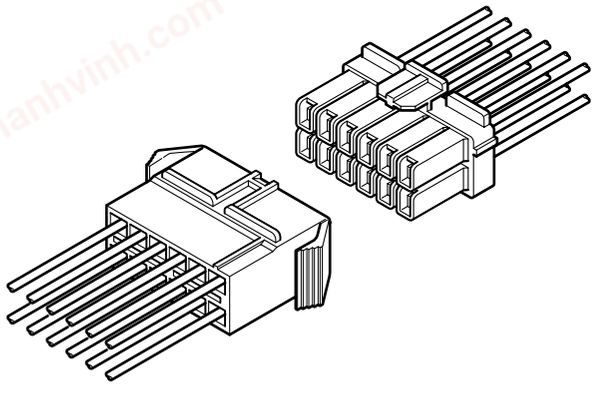
JST Crimp 5.0mm (.197") pitch

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 1.25mm^2
- 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

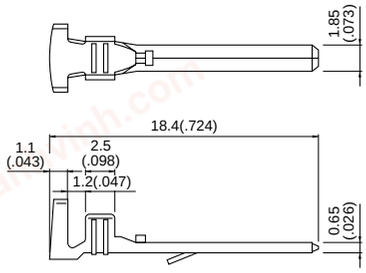
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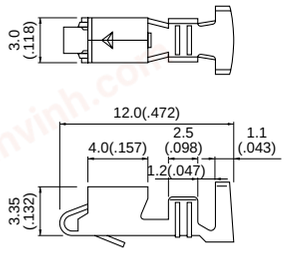
XL CONNECTOR

Contact

Pin contact



Socket contact



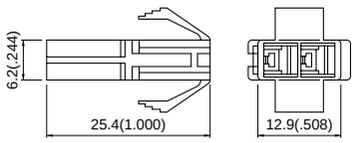
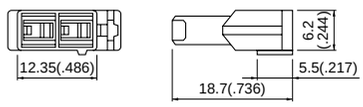
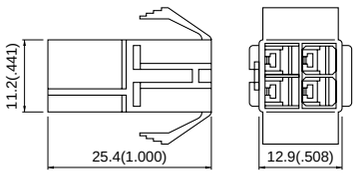
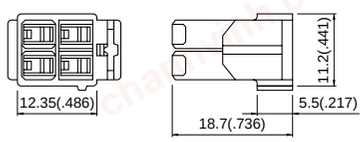
Model No.		Applicable wire			Q'ty / reel
Pin contact	Socket contact	mm²	AWG #	Insulation O.D. mm(in.)	
SYM-01T-P0.7	**SXF-01T-P0.7**	0.13 to 0.5	26 to 20	1.3 to 2.7 (.051 to .106)	Pin contact: SYM-01T-P0.7 6,000 SYM-41T-P0.7 4,000 Socket contact: 3,000
SYM-41T-P0.7	**SXF-41T-P0.7**	0.5 to 1.25	20 to 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)	

Material and Finish
Phoshor bronze, tin-plated

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

Housing

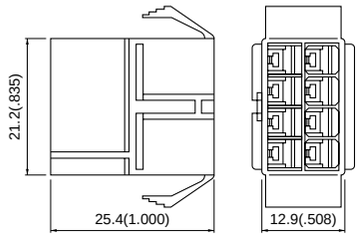
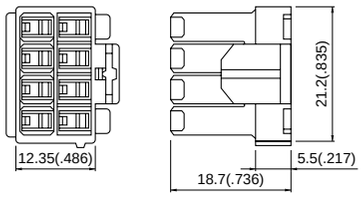
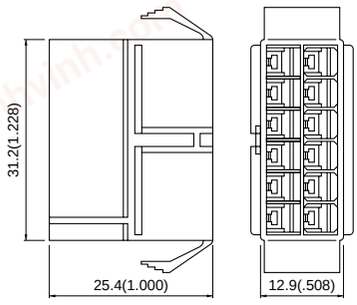
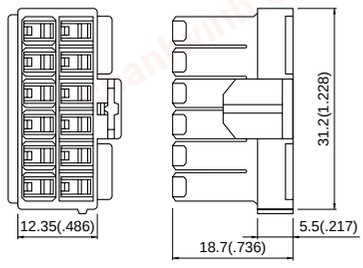
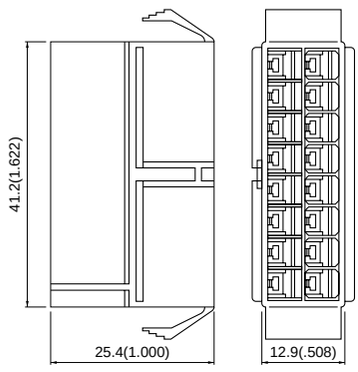
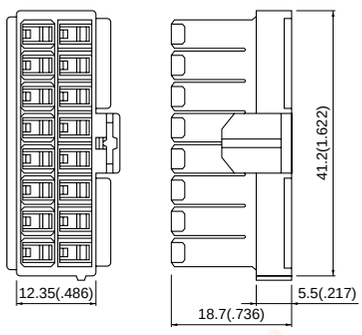
Material: Nylon 66, UL94V-0, white

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

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Housing

Material: Nylon 66, UL94V-0, white

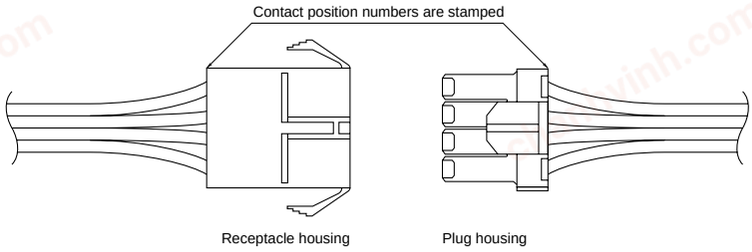
Circuits	Voltage rating	Current rating	Receptacle housing(for pin contact)	Q'ty / bag	Plug housing(for socket contact)	Q'ty / bag
8	300V	6A	**XLR-08V** 	500	**XLP-08V** 	500
12	300V	6A	**XLR-12V** 	200	**XLP-12V** 	500
16	300V	5A	**XLR-16V** 	100	**XLP-16V** 	200

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.

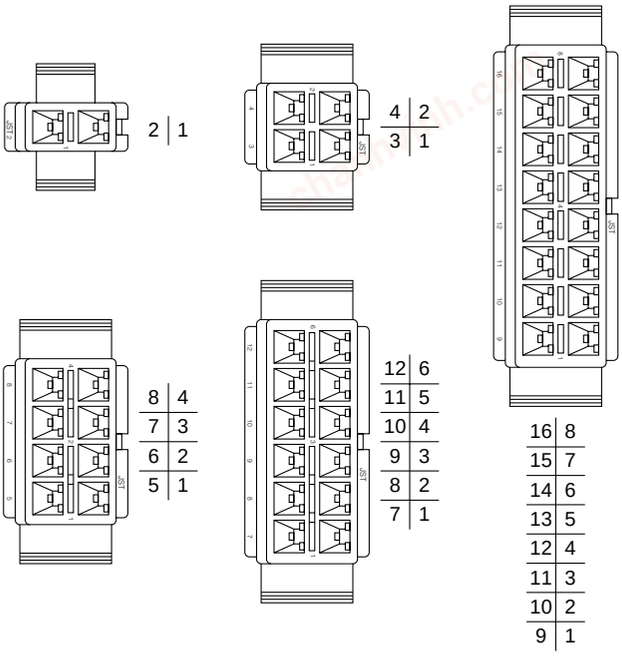
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XL CONNECTOR

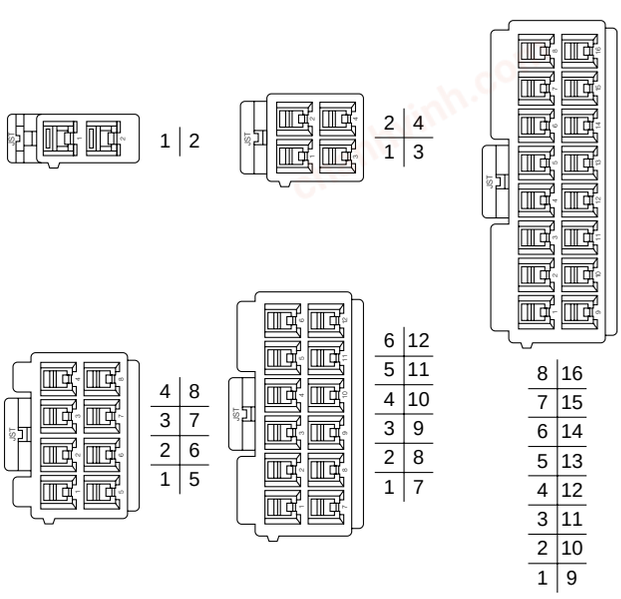
Contact position location numbers



Receptacle housing



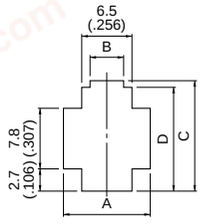
Plug housing



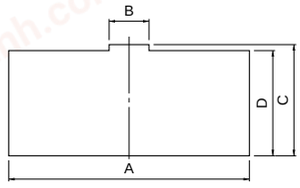
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Panel layout

Shape I



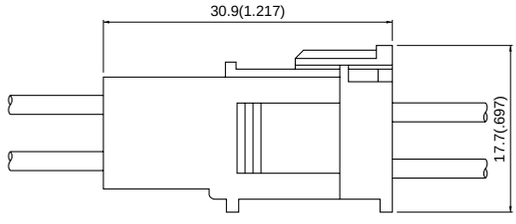
Shape II



Cir-cuits	Receptacle housing	Panel hole shape	Panel dimensions mm(in.) General tolerance ±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	–	–	–