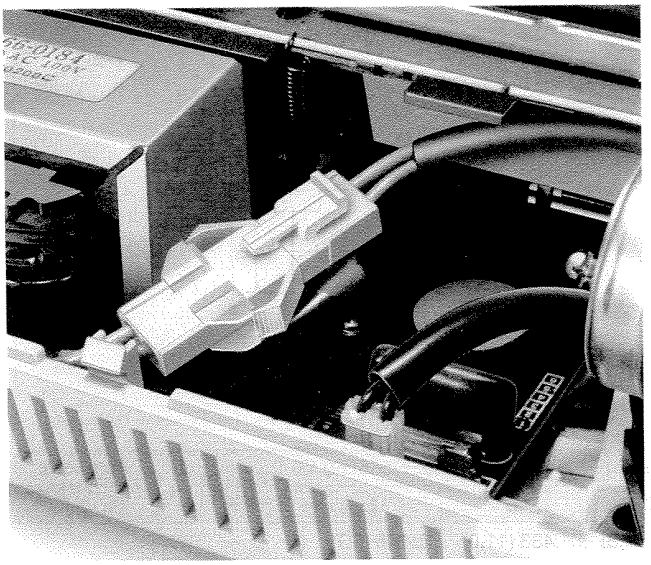
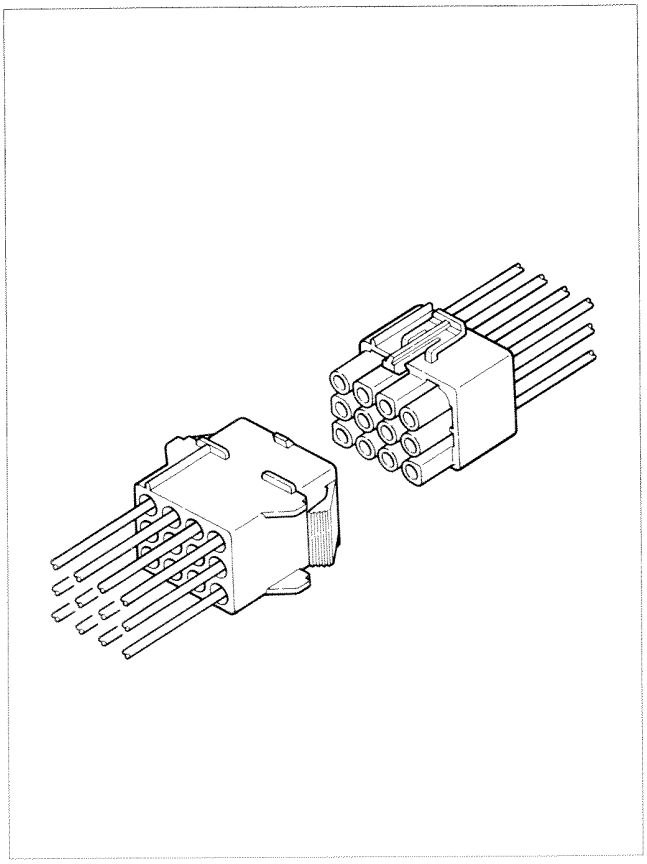
LL CONNECTOR

.244″ (6.2mm) pitch disconnectable crimp style wire-to-wire connectors





Having the largest power rating in the L connector series, the 600V, 15A LL connector is suited for circuits requiring large electric capacity, such as air conditioner circuits.

Features

• Durable arm lock mechanism
The arm lock mechanism of the housing has a slit to prevent stress concentration during connection. It is durable and survives repetitive insertions and withdrawals.

• Internal jumper contacts
Two styles of crimp contacts are available for convenient branching or for jumper connections inside equipment.

• Easy insertion and secure installation of contacts
The area surrounding the lance of the contact is cleared so that the contact can be easily inserted into the housing.
A lance retraction prevention mechanism is also provided.

• Egg-crate housing construction
All contacts are individually and totally surrounded by housing walls (egg-crate style) to protect the contacts from deformation while being mated. This same construction ensures a large electrical creep distance while the .244" (6.2mm) contact pitch provides safe dielectric spacing. Furthermore, the polarized housing prevents mismating of the connector.

• Panel locking mechanism
Due to our unique panel lock design, the housing can be easily installed on panels of various thicknesses without using tools.

■ 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

Cir-cuits	Wire size (AWG)					
	#14	#16	#18	#20	#22	#24
2	15	10	8	6	4	3
3	14	9	8	6	4	3
4	13	9	7	6	4	3
6	12	8	7	5	3	2
9	10	7	6	5	3	2
12	9	7	5	4	3	2
15	9	7	5	4	3	2

Specifications

- Current rating: 15A AC, DC max.
- Voltage rating: 600V AC, DC
  300V when two-wire crimping contacts are used
- Temperature range: −25°C to +90°C
  (including temperature rise)
- Contact resistance: Initial value/10mΩ max.
  After environmental testing/ 15mΩ max.
- Insulation resistance: 1,000MΩ min.
- Withstanding voltage: 2,000V AC/minute
- Applicable wire: AWG #24 to #14, 0.2 to 2.0mm²
- Applicable panel thickness: .031″ to .063″ (0.8 to 1.6mm)

* Contact JST for details.

Standards

Recognized file No. E60389

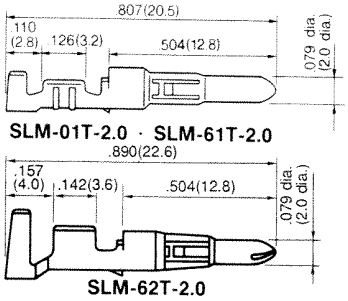
Certified file No. LR20812

File No. R75049 (conforms to DIN/VDE 0627)

* Conforms to SEV and CEE

Contact

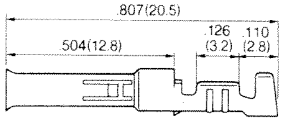
Pin contact



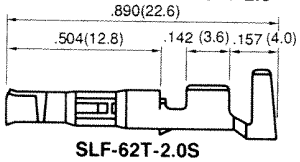
SLM-01T-2.0 · SLM-61T-2.0

SLM-62T-2.0

Socket contact



SLF-01T-2.0 · SLD-61T-2.0



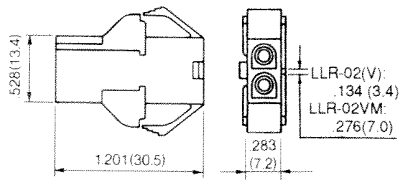
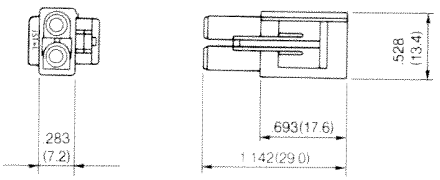
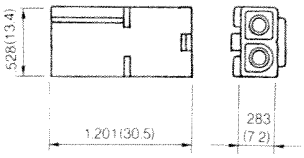
SLF-62T-2.0S

Model No.		Applicable wire			Material	Finish	Q'ty/reel
Pin contact	Socket contact	mm²	AWG #	Insulation O.D. in. (mm)			
SLM-01T-2.0	SLF-01T-2.0	0.2 to 0.5	24 to 20	.059 to .106 (1.5 to 2.7)	Brass	Tin-plated	5,000
SLM-61T-2.0	SLF-61T-2.0	0.5 to 2.0	20 to 14	.075 to .134 (1.9 to 3.4)			3,000
*SLM-62T-2.0	*SLF-62T-2.0S	0.5 + 0.5 to 0.75 + 1.25	20 + 20 to 18 + 16	.102 + .102 to .110 + .122 (2.6 + 2.6 to 2.8 + 3.1)			2,000

Note:
1. *Contact JST for special products.*
2. *Contact denoted by * is used for two wires. For further information, contact JST.*

Housing

Material: Nylon 6, UL94V-0, white

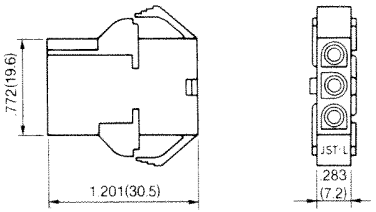
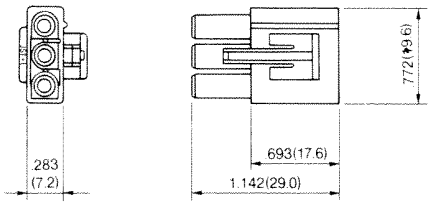
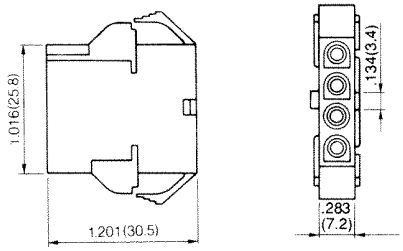
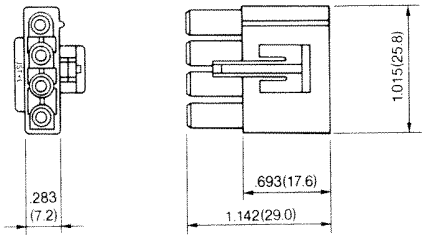
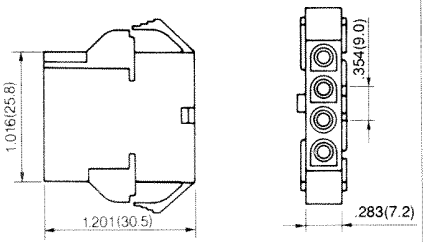
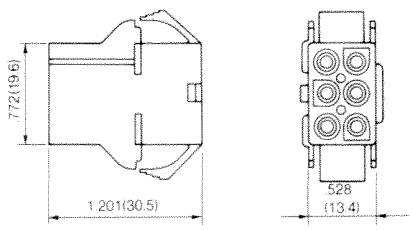
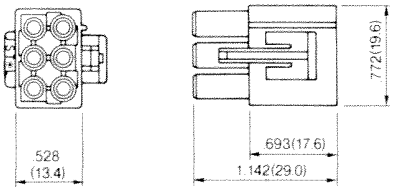
Cir-cuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Q'ty/bag	Plug housing (for socket contact)	Q'ty/bag
2	600V	15A	**LLR-02V** **LLR-02-VM** 	500	**LLP-02V** 	500
			LLR-02FV 	500		

LL CONNECTOR

.244″ (6.2mm) pitch disconnectable crimp style wire-to-wire connectors

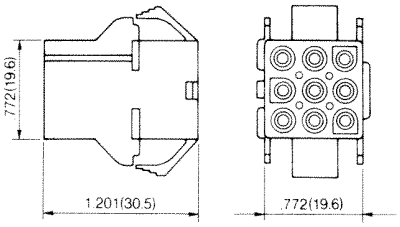
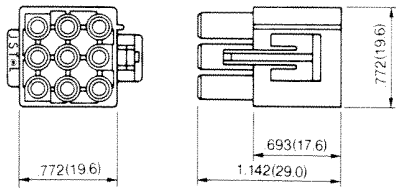
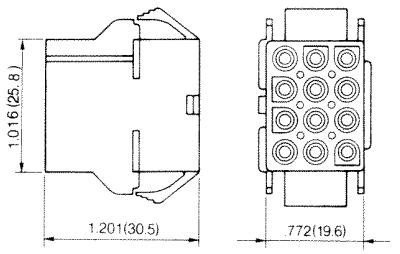
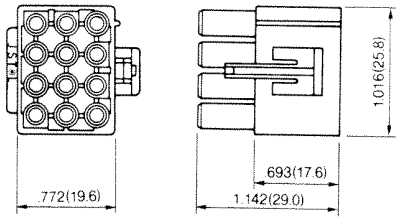
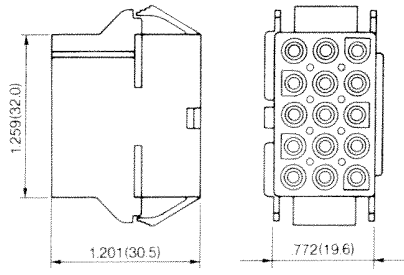
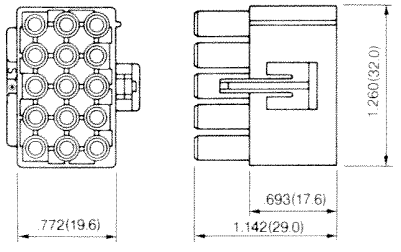
Housing

Material: Nylon 6, UL94V-0, white

Cir-cuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Q'ty/ bag	Plug housing (for socket contact)	Q'ty/ bag
3	600V	14A	**LLR-03V** 	500	**LLP-03V** 	500
4	600V	13A	**LLR-04V** 	500	**LLP-04V** 	500
			LLR-04-VM 	500		
6	600V	12A	**LLR-06V** 	500	**LLP-06V** 	500

Housing

Material: Nylon 6, UL94V-0, white

Cir-cuits	Voltage rating	Current rating	Receptacle housing (for pin contact)	Q'ty/ bag	Plug housing (for socket contact)	Q'ty/ bag
9	600V	10A	**LLR-09V** 	200	**LLP-09V** 	200
12	600V	9A	**LLR-12V** 	200	**LLP-12V** 	200
15	600V	9A	**LLR-15V** 	100	**LLP-15V** 	100

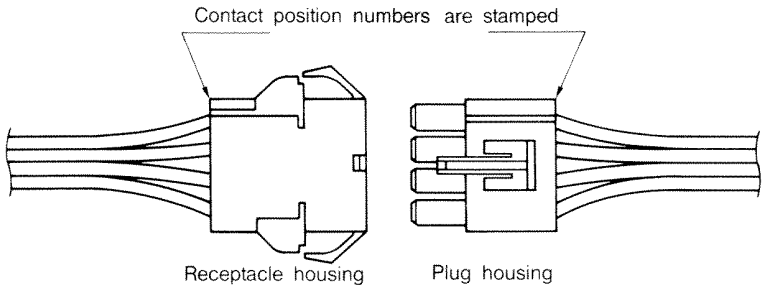
Note:

1. *LL connectors with any number of circuits can be either panel mounted or free hanging. The panel hole dimensions are given on the next page.*
2. *Contact JST for special products.*
3. *The panel installation hole dimensions for the LLR-02(V) are different from for the LLR-02VM, and the hole dimensions for the LLR-04(V) are different from the dimensions for the LLR-04VM. For details, refer to the panelhole dimensions table.*

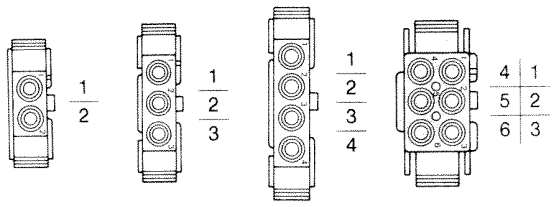
LL CONNECTOR

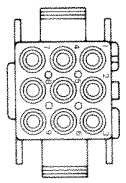
.244″ (6.2mm) pitch disconnectable crimp style wire-to-wire connectors

Contact position location numbers

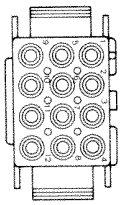


Receptacle housing

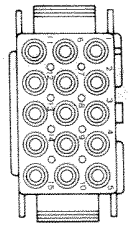




7	4	1
8	5	2
9	6	3

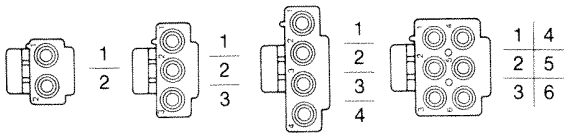


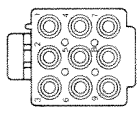
9	5	1
10	6	2
11	7	3
12	8	4



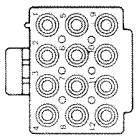
11	6	1
12	7	2
13	8	3
14	9	4
15	10	5

Plug housing

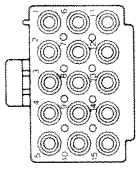




1	4	7
2	5	8
3	6	9



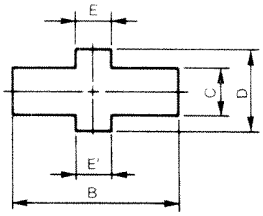
1	5	9
2	6	10
3	7	11
4	8	12



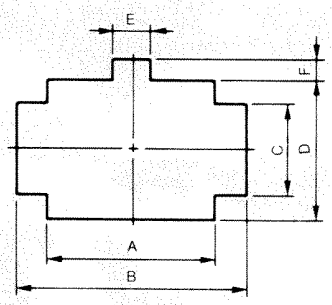
1	6	11
2	7	12
3	8	13
4	9	14
5	10	15

Panel layout

Shape I



Shape II

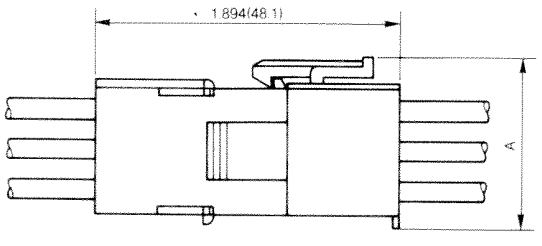


Circuits	Receptacle housing	Applicable hole form	Panel hole dimensions in. (mm) General tolerance ±.005(±0.13)							Applicable panel thickness in. (mm)
			A	B	C	D	E	E'	F	
2	LLR-02V	I	–	.799 (20.3)	.307 (7.8)	.433 (11.0)	.146 (3.7)	.146 (3.7)	–	.031 to.063 (0.8 to 1.6 mm)
	LLR-02-VM	I	–	.799 (20.3)	.307 (7.8)	.433 (11.0)	.146 (3.7)	$.287^{+.008}_{-0}$ ($7.3^{+0.2}_{-0}$)	–	
3	LLR-03V	I	–	1.024 (26.0)	.307 (7.8)	.433 (11.0)	.146 (3.7)	.146 (3.7)	–	
4	LLR-04V	I	–	1.272 (32.3)	.307 (7.8)	.433 (11.0)	.146 (3.7)	.146 (3.7)	–	
	LLR-04-VM	I	–	1.272 (32.3)	.307 (7.8)	.433 (11.0)	.146 (3.7)	$.366^{+.008}_{-0}$ ($9.3^{+0.2}_{-0}$)	–	
6	LLR-06V	II	.787 (20.0)	1.047 (26.6)	.370 (9.4)	.555 (14.1)	.157 (4.0)	–	.063 (1.6)	
9	LLR-09V	II	.787 (20.0)	1.047 (26.6)	.370 (9.4)	.799 (20.3)	.157(4.0)	–	.063 (1.6)	
12	LLR-12V	II	1.031 (26.2)	1.299 (33.0)	.504 (12.8)	.799 (20.3)	.157 (4.0)	–	.063 (1.6)	
15	LLR-15V	II	1.276 (32.4)	1.551 (39.4)	.504 (12.8)	.799 (20.3)	.157 (4.0)	–	.063 (1.6)	

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



Circuits	Dimension A in. (mm)
2 to 4	.575 (14.6)
6	.819 (20.8)
9, 12, 15	1.063 (27.0)

Mouser Electronics

Authorized Distributor

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SLF-61T-2.0 SLM-61T-2.0