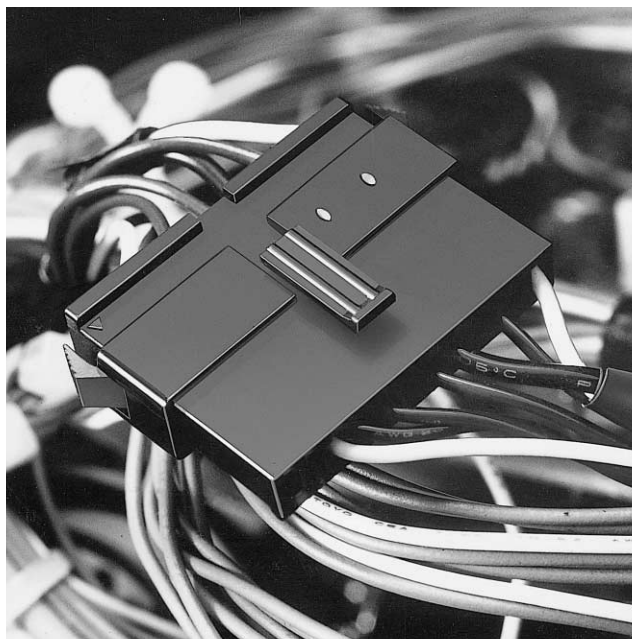
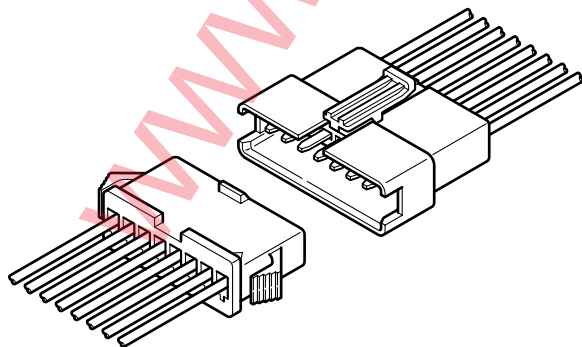


SM CONNECTOR

Disconnectable Crimp style wire-to-wire connectors



The SM series are 2.5mm (.098") pitch, wire-to-wire connectors that perform reliably in high-density, small current applications.



Features

• High contact pressure

With each insertion and withdrawal, the mating contacts wipe against each other to remove foreign matter. Moreover, the socket contacts tolerate a large variation in mating post thickness without a reduction in their normally high contact pressure. These factors insure an especially long service life. Moreover, the design of the housing and contacts allows the contacts to be easily inserted into the housing.

• Highly reliable housing construction

Since all the contacts are individually and totally surrounded by housing walls, the contacts are protected from deformation from outside sources of stress or from mismatching. The polarized housing shape prevents reverse connection.

• Mountable on a variety of panels

Due to our unique panel installation locking mechanisms, the housing can be easily installed on panels of various thicknesses without using tools.

• Arm lock mechanism

An arm lock mechanism securely holds the plug and the receptacle together when they are connected.

Specifications

- Current rating: 3A AC, DC max.
- Voltage rating: 250V AC, DC max.
- Temperature range: -25°C to +85°C
(including temperature rise in applying electrical current)
- Contact resistance: Initial value/10m Ω max.
After environmental testing/20m Ω max.
- Insulation resistance: 500M Ω min.
- Withstanding voltage: 1,500V AC/minute
- Applicable wire: AWG #28 to #22
0.08 to 0.33mm²
- Applicable panel thickness: 0.5 to 2.0mm(.020" to .079")
- * 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.

Standards

- Ⓡ Recognized E60389
- Ⓢ Certified LR20812
- Ⓡ R75050

Contact

Pin contact

Technical drawing of a pin contact. The side view shows a length of 15.8 (.622) and a thickness of 0.64 (.025). The end view shows a pin diameter of 1.1 (.043). The base has two mounting tabs with widths of 1.7 (.067) and 2.0 (.079).

Socket contact

Technical drawing of a socket contact. The side view shows a length of 1.95 (.077) and a thickness of 1.1 (.043). The end view shows a socket width of 9.0 (.354) and a depth of 3.0 (.118). The base has two mounting tabs with widths of 3.8 (.150) and 1.7 (.067). The socket opening has a width of 2.3 (.091).

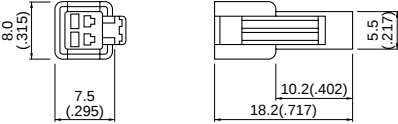
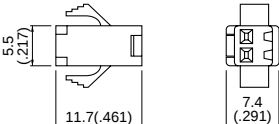
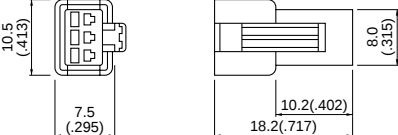
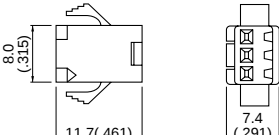
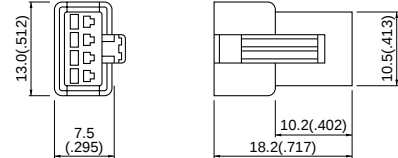
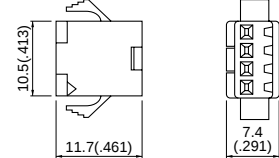
Model No.		Applicable wire			Q'ty / reel
Pin contact	Socket contact	mm ²	AWG #	Insulation O.D. mm(in.)	
SYM-001T-P0.6	SHF-001T-0.8BS	0.08 to 0.33	28 to 22	1.2 to 1.8(.047 to .071)	Pin contact: 8,500 Socket contact: 5,000

Material and Finish					
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Phosphor bronze, tin-plated

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

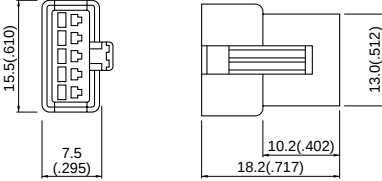
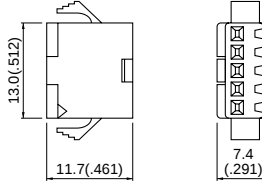
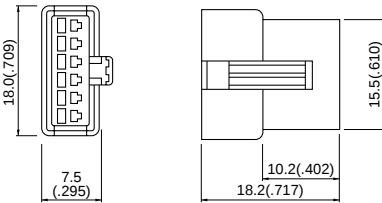
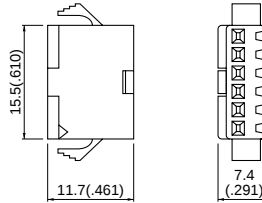
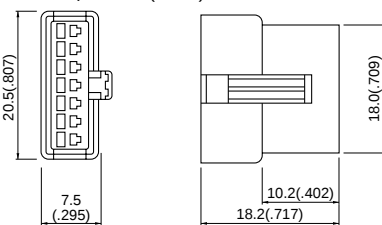
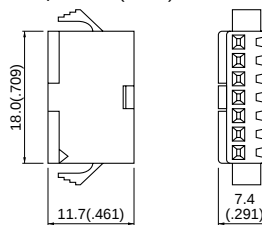
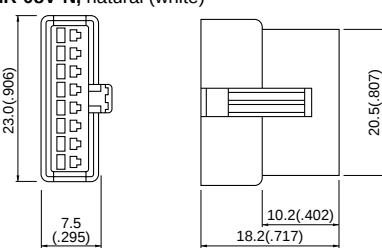
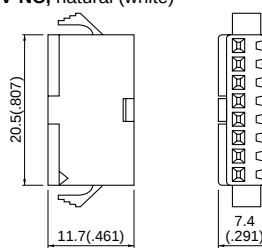
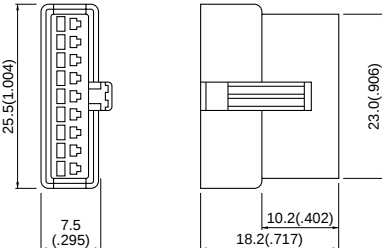
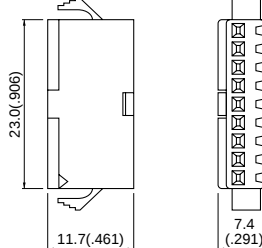
Housing

Material: Nylon 6, UL94V-0					
Circuits	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
2	3A	SMR-02V-B , black SMR-02V-N , natural (white) 	Q'ty / bag	SMP-02V-BC , black SMP-02V-NC , natural (white) 	Q'ty / bag
			1,000		1,000
3	3A	SMR-03V-B , black SMR-03V-N , natural (white) 	Q'ty / bag	SMP-03V-BC , black SMP-03V-NC , natural (white) 	Q'ty / bag
			1,000		1,000
4	3A	SMR-04V-B , black SMR-04V-N , natural (white) 	Q'ty / bag	SMP-04V-BC , black SMP-04V-NC , natural (white) 	Q'ty / bag
			500		1,000

SM CONNECTOR

Housing

Material: Nylon 6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
		SMR-05V-B, black SMR-05V-N, natural (white)	Q'ty / bag	SMP-05V-BC, black SMP-05V-NC, natural (white)	Q'ty / bag
5	3A		500		1,000
6	3A		500		500
7	3A		500		500
8	3A		500		500
9	3A		500		500

Housing

Material: Nylon 6, UL94V-0

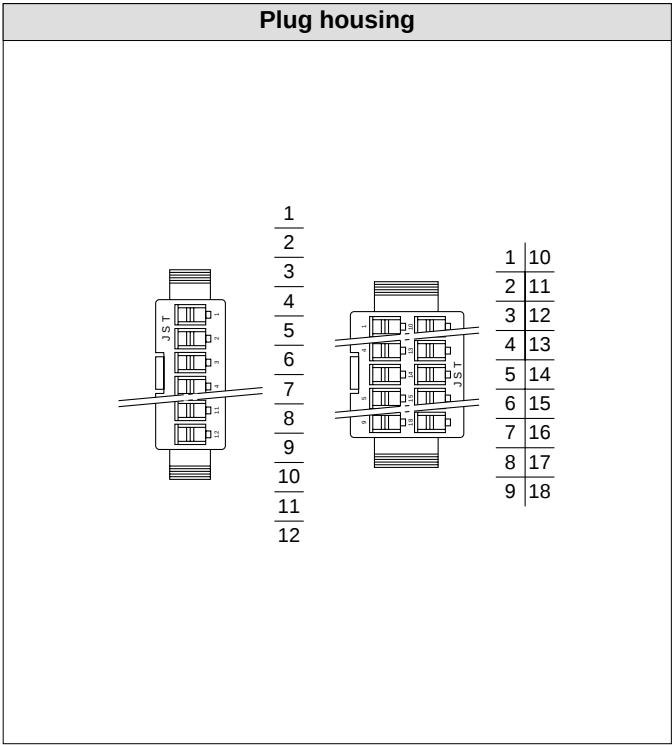
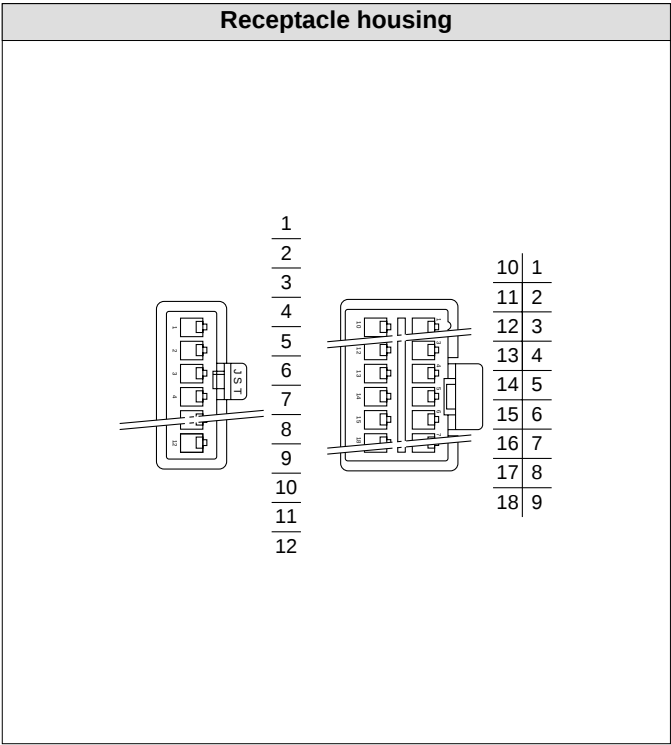
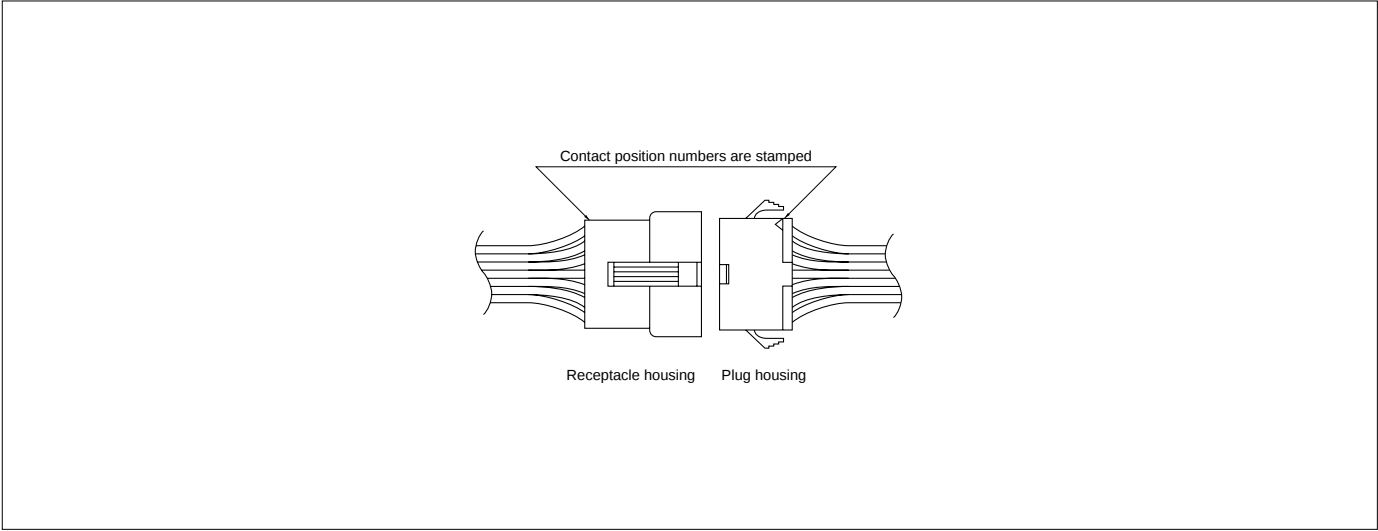
Circuits	Current rating	Receptacle housing(for pin contact)		Plug housing(for socket contact)	
10	3A	SMR-10V-B , black SMR-10V-N , natural (white)		SMP-10V-BC , black SMP-10V-NC , natural (white)	
11	3A	SMR-11V-B , black SMR-11V-N , natural (white)		SMP-11V-BC , black SMP-11V-NC , natural (white)	
12	3A	SMR-12V-B , black SMR-12V-N , natural (white)		SMP-12V-BC , black SMP-12V-NC , natural (white)	
18	2A	SMR-18V-B , black SMR-18V-N , natural (white)		SMP-18V-BC , black SMP-18V-NC , natural (white)	

Note:

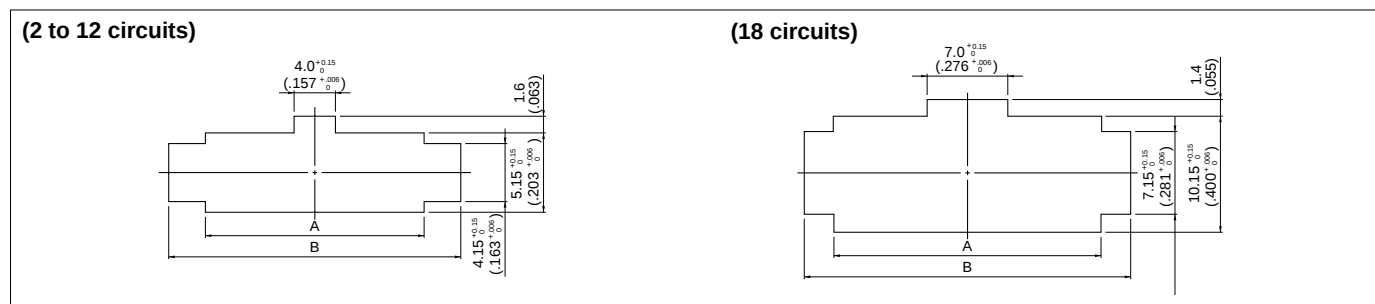
- SM connectors with any number of circuits can be used either panel mounted or free hanging.
- Contact JST for special products.

SM CONNECTOR

Contact position location numbers -----



Panel layout

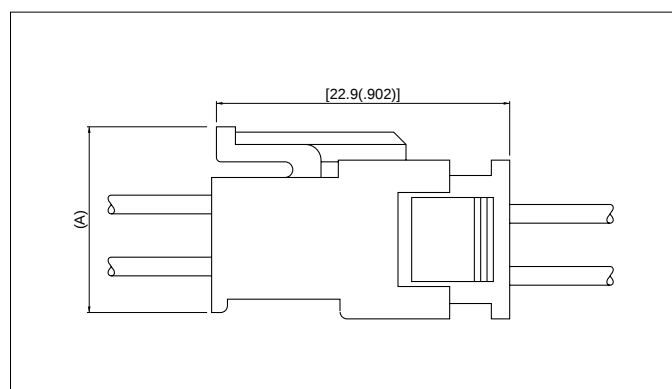


Circuits	Housing Model No.	Panel thickness mm(in.)					
		0.5 to 0.9 (.020 to .035)		1.0 to 1.5 (.039 to .059)		1.5 to 2.0 (.059 to .079)	
		A $^{+0.15}_{-0} (^{+.006}_{-0})$	B $\pm 0.1 (.004)$	A $^{+0.15}_{-0} (^{+.006}_{-0})$	B $\pm 0.1 (.004)$	A $^{+0.15}_{-0} (^{+.006}_{-0})$	B $\pm 0.1 (.004)$
2	SMP-02V-B(N)C	5.7 (.224)	9.6 (.378)	5.7 (.224)	9.8 (.386)	5.7 (.224)	10.0 (.394)
3	SMP-03V-B(N)C	8.2 (.323)	12.1 (.476)	8.2 (.323)	12.3 (.484)	8.2 (.323)	12.5 (.492)
4	SMP-04V-B(N)C	10.7 (.421)	14.6 (.575)	10.7 (.421)	14.8 (.583)	10.7 (.421)	15.0 (.591)
5	SMP-05V-B(N)C	13.2 (.520)	17.1 (.673)	13.2 (.520)	17.3 (.681)	13.2 (.520)	17.5 (.689)
6	SMP-06V-B(N)C	15.7 (.618)	19.6 (.772)	15.7 (.618)	19.8 (.780)	15.7 (.618)	20.0 (.787)
7	SMP-07V-B(N)C	18.2 (.717)	22.1 (.870)	18.2 (.717)	22.3 (.878)	18.2 (.717)	22.5 (.886)
8	SMP-08V-B(N)C	20.7 (.815)	24.6 (.969)	20.7 (.815)	24.8 (.976)	20.7 (.815)	25.0 (.984)
9	SMP-09V-B(N)C	23.2 (.913)	27.1 (1.067)	23.2 (.913)	27.3 (1.075)	23.2 (.913)	27.5 (1.083)
10	SMP-10V-B(N)C	25.7 (1.012)	29.6 (1.165)	25.7 (1.012)	29.8 (1.173)	25.7 (1.012)	30.0 (1.181)
11	SMP-11V-B(N)C	28.2 (1.110)	32.1 (1.264)	28.2 (1.110)	32.3 (1.272)	28.2 (1.110)	32.5 (1.280)
12	SMP-12V-B(N)C	30.7 (1.209)	34.6 (1.362)	30.7 (1.209)	34.8 (1.370)	30.7 (1.209)	35.0 (1.378)
18	SMP-18V-B(N)C	23.2 (.913)	27.2 (1.071)	23.2 (.913)	27.4 (1.079)	23.2 (.913)	27.6 (1.087)

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 mm(in.)
2 to 12	8.7 (.343)
18	14.5 (.571)

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
SHF-001T-0.8BS	APLMK SHF001-08S	APLNC SHF001-08S	APLMKLS SHF001-08S	APLLSNC SHF001-08S	APLSC SHF001-08S
SYM-001T-P0.6	APLMK SYM001-06	APLNC SYM001-06	APLMKLS SYM001-06	APLLSNC SYM001-06	APLSC SYM001-06