JST
Crimp
2.5mm
(.098") pitch

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.

www.DataSheet4U.com

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***

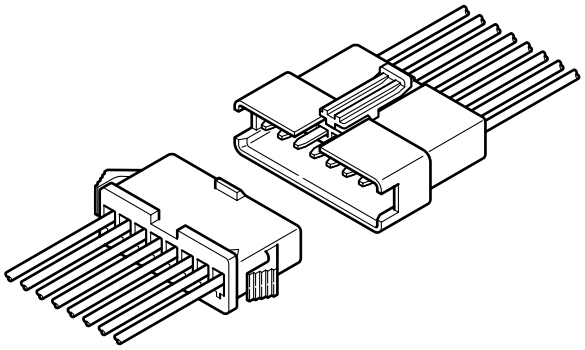
  Since all the contacts are individually and totally surrounded by housing walls, the contacts are protected from deformation from outside sources of stress or from mismating. The polarized housing shape prevents reverse connection.

- ***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 0.33mm^2
- Applicable panel thickness: 0.5 to 2.0mm(.020" to .079")

* Contact JST for details.

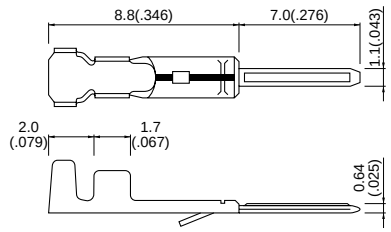
Standards

0 Recognized E60389
1 Certified LR20812
2 R75050

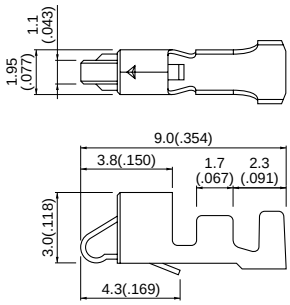
www.DataSheet4U.com

Contact

Pin contact



Socket contact



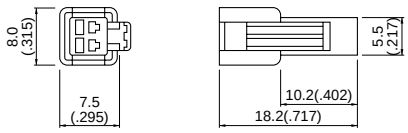
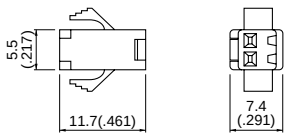
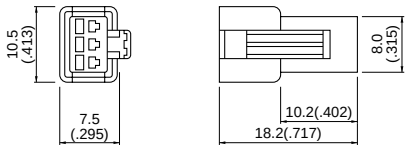
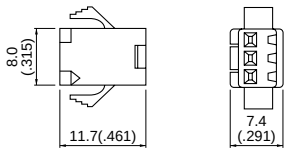
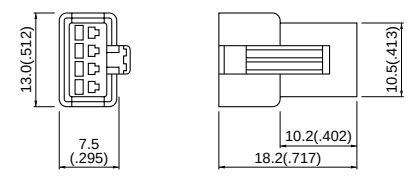
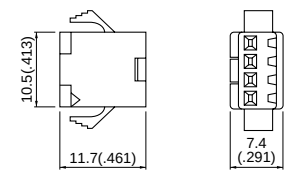
Model No.		Applicable wire			Q´ty / reel
Pin contact	Socket contact	mm²	AWG #	Insulation O.D. mm(in.)	
SYM-001T-P0.6	**SHF-001T-0.8BS**	0.08 to 0.33	28 to 22	1.2 to 1.8(.047 to .071)	Pin contact: 8,500 Socket contact: 5,000

Material and Finish
Phosphor bronze, tin-plated

Note: Contact JST for special products.

Housing

Material: Nylon6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
2	3.0A	**SMR-02V-B,** black **SMR-02V-N,** natural (white) 	1,000	**SMP-02V-BC,** black **SMP-02V-NC,** natural (white) 	1,000
3	3.0A	**SMR-03V-B,** black **SMR-03V-N,** natural (white) 	1,000	**SMP-03V-BC,** black **SMP-03V-NC,** natural (white) 	1,000
4	3.0A	**SMR-04V-B,** black **SMR-04V-N,** natural (white) 	500	**SMP-04V-BC,** black **SMP-04V-NC,** natural (white) 	1,000

www.DataSheet4U.com

Housing

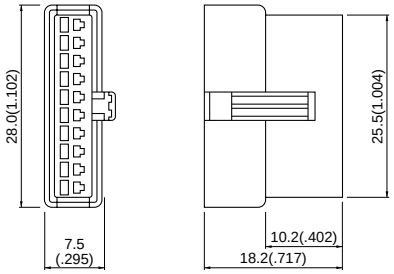
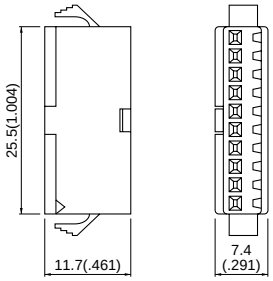
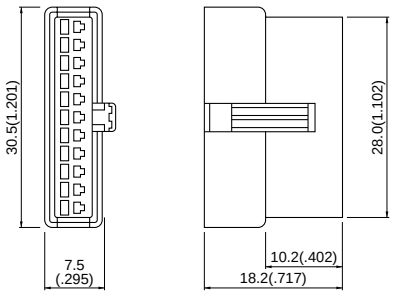
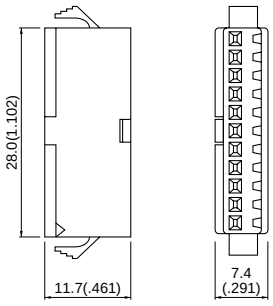
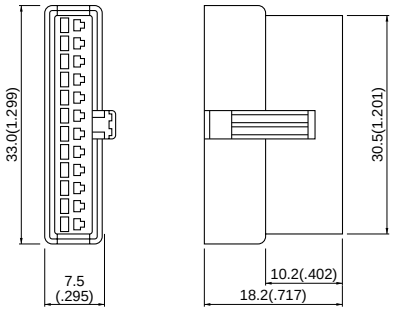
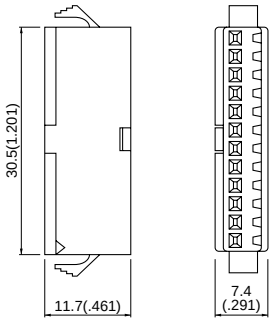
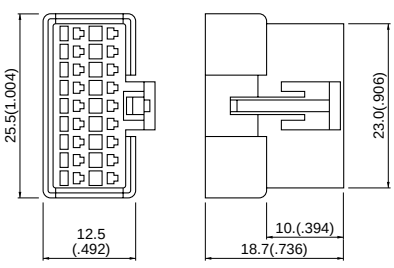
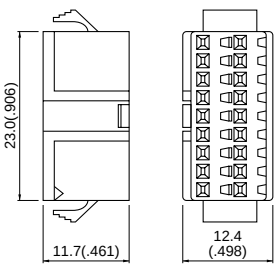
Material: Nylon6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
5	3.0A	**SMR-05V-B,** black **SMR-05V-N,** natural (white)	500	**SMP-05V-BC,** black **SMP-05V-NC,** natural (white)	1,000
6	3.0A	**SMR-06V-B,** black **SMR-06V-N,** natural (white)	500	**SMP-06V-BC,** black **SMP-06V-NC,** natural (white)	500
7	3.0A	**SMR-07V-B,** black **SMR-07V-N,** natural (white)	500	**SMP-07V-BC,** black **SMP-07V-NC,** natural (white)	500
8	3.0A	**SMR-08V-B,** black **SMR-08V-N,** natural (white)	500	**SMP-08V-BC,** black **SMP-08V-NC,** natural (white)	500
9	3.0A	**SMR-09V-B,** black **SMR-09V-N,** natural (white)	500	**SMP-09V-BC,** black **SMP-09V-NC,** natural (white)	500

www.DataSheet4U.com

Housing

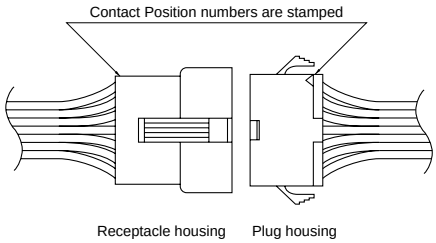
Material: Nylon6, UL94V-0

Circuits	Current rating	Receptacle housing(for pin contact)	Q´ty / bag	Plug housing(for socket contact)	Q´ty / bag
10	3.0A	**SMR-10V-B,** black **SMR-10V-N,** natural (white) 	200	**SMP-10V-BC,** black **SMP-10V-NC,** natural (white) 	500
11	3.0A	**SMR-11V-B,** black **SMR-11V-N,** natural (white) 	200	**SMP-11V-BC,** black **SMP-11V-NC,** natural (white) 	500
12	3.0A	**SMR-12V-B,** black **SMR-12V-N,** natural (white) 	200	**SMP-12V-BC,** black **SMP-12V-NC,** natural (white) 	500
18	2.0A	**SMR-18V-B,** black **SMR-18V-N,** natural (white) 	200	**SMP-18V-BC,** black **SMP-18V-NC,** natural (white) 	500

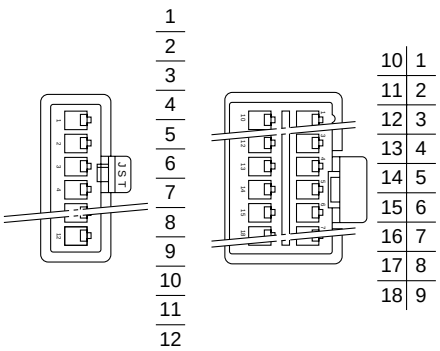
Note:
1. SM connectors with any number of circuits can be either panel mounted or free hanging.
2. Contact JST for special products.

www.DataSheet4U.com

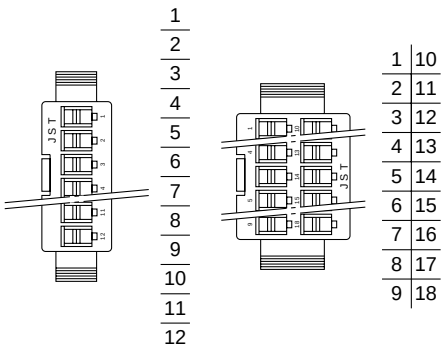
Contact position location numbers ----------



Receptacle housing



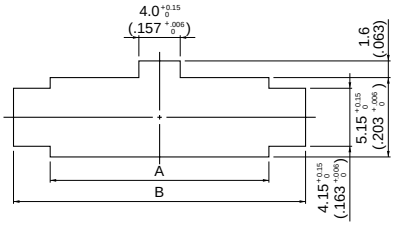
Plug housing



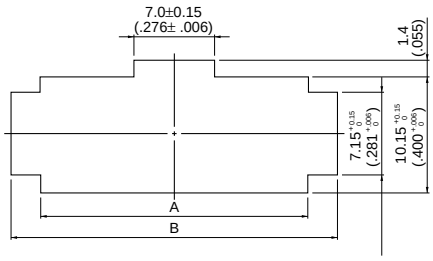
www.DataSheet4U.com

Panel layout

(2 to 12 circuits)



(18 circuits)

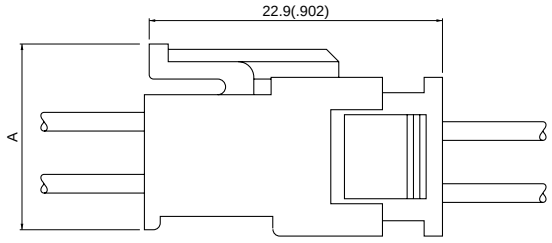


Circuits	Housing Model No.	Panel thickness mm(in.)					
		0.5 to 0.9(.020 to .035)		1.0 to 1.5(.039 to .059)		1.5 to 2.0(.059 to .079)	
		A ±0.15 0 (±.006 0)	B±0.1(±.004)	A ±0.15 0 (±.006 0)	B±0.1(±.004)	A ±0.15 0 (±.006 0)	B±0.1(±.004)
2	**SMP-02V-B(N)C**	5.7(.224)	9.6(.378)	5.7(.224)	9.8(.386)	5.7(.224)	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)

www.DataSheet4U.com

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)

www.DataSheet4U.com