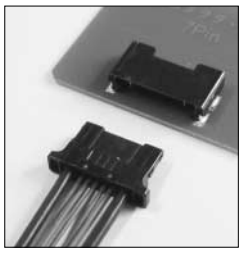
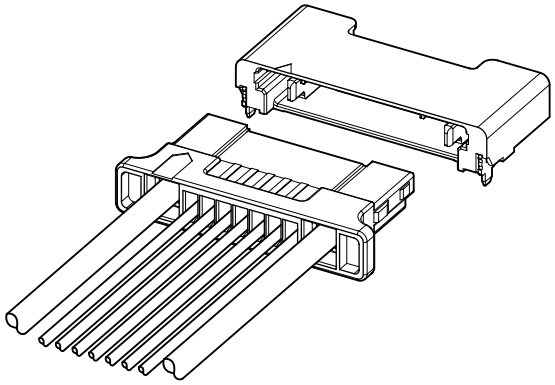


LBT CONNECTOR A Type

Emboss Tape

Disconnectable Crimp style connectors



This connector is for connecting the lithium polymer battery or for connecting DC-IN, and has the sequence structure for connection to the power supply circuit in preference to connection to the signal circuit by dividing the signal circuit and power supply circuit clearly. Moreover, this is the low profile connector (space saving) for applying the high current by adopting the heat radiation structure.

- ***Connector for power supply (7A)***
- ***Low profile (Space saving)***
- ***Hybrid model of Signal circuit + Power supply circuit***
- ***Heat radiation structure***
- ***Sequence structure***
- ***High-strength***
- ***Check of incomplete mating***

Specifications

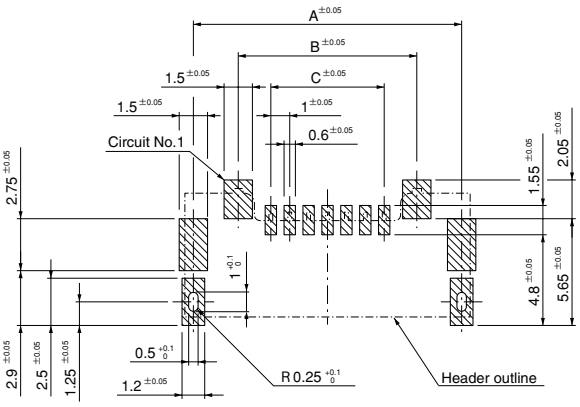
- Current rating: Signal circuit/ 0.5 A AC, DC (AWG #28)
  Power supply circuit/ 7.0 A AC, DC (AWG #20)
- Voltage rating: 50 V AC, DC
- Temperature range: -25˚C to +85˚C
  (including temperature rise in applying electrical current)
- Contact resistance: Signal circuit
  Initial value/ 20 mΩ max.
  After environmental tests/ 40 mΩ max.
  Power supply circuit
  Initial value/ 15 mΩ max.
  After environmental tests/ 30 mΩ max.
- Insulation resistance: 100 MΩ min.
- Withstanding voltage: 500 VAC/minute
- Applicable wire: Signal circuit
  Conductor size/ AWG #28
  Insulation O.D./ 0.6 to 0.8 mm
  Power supply circuit
  Conductor size/ AWG #28 to #20
  Insulation O.D./ 1.11 to 1.44 mm

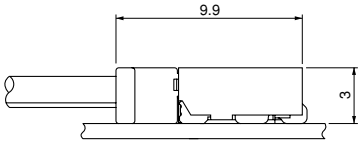
* Refer to "General Instruction and Notice when using Terminals and Connectors" at the end of this catalog.
* Contact JST for details.
* Compliant with RoHS.

Standards

Recognized E60389

PC board layout and Assembly layout

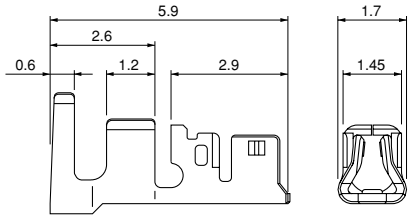




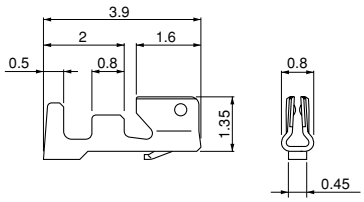
Note: 1. The above figure is the figure viewed from the connector mounting side.
2. Tolerances are non-cumulative: ±0.05 mm for all centers. The dimensions above should serve as a guideline. Contact JST for details.

Contact

Power supply



Signal



Model No.		Applicable wire		Insulation O.D. (mm)	Q'ty/ reel
		mm²	AWG #		
Power supply	**SLBTAD-01T-M0.5**	0.22～0.5	24～20	1.11～1.44	7,000
Signal	**SSH-003T-P0.2-H**	0.08	28	0.6～0.8	23,000

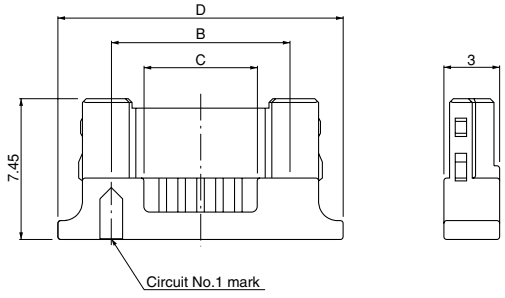
Material and Finish
Power supply: Copper alloy, tin-plated (reflow treatment) Signal: Phosphor bronze, tin-plated (reflow treatment)

RoHS compliance

Contact	Crimping machine	Applicable wire		Insulation O.D. (mm)	Applicator		
		mm²	AWG #		Crimp applicator	Dies	Crimp applicator with dies
SLBTAD-01T-M0.5	AP-K2N	0.22～0.5	24～20	1.11～1.44	MKS-L	MK/SLBTAD-01-05	APLMK SLBTAD01-05
					—	—	—
SSH-003T-P0.2-H	AP-K2N	0.08	28	0.6～0.8	MKS-L-10-3	MK/SSH/L-003-02	APLMK SSH/L003-02
					*MKS-SC	SC/SSH/L-003-02	APLSC SSH/L003-02

*Note: 1. *Strip-crimp applicator*
Contact JST for applicable wires in case that it is not usable due to wire size.
2. Contact JST for fully automatic crimping applicator.

Housing

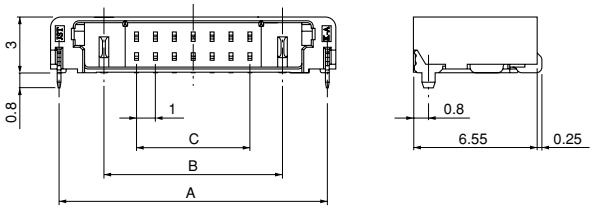


Circuits		Model No.	Dimensions (mm)			Q'ty/ bag
Power supply	Signal		B	C	D	
2	7	**LBTAR-09V-2K-K(HF)**	9.45	6.0	15.1	2,000
	5	**LBTAR-07V-2K-K(HF)**	7.45	4.0	13.1	2,000
	3	**LBTAR-05V-2K-K(HF)**	5.45	2.0	11.1	3,000
	1	**LBTAR-03V-2K-K(HF)**	3.45	—	9.1	3,000

Material
PBT, UL94V-0

RoHS compliance

Header



Circuits		Model No.	Dimensions (mm)				Q'ty/ reel
Power supply	Signal		A	B	C	D	
2	7	**SM09B-LBTAKS-TD-N2T-K(HF)**	14.2	9.45	6.0	15.1	1,500
	5	**SM07B-LBTAKS-TD-N2T-K(HF)**	12.2	7.45	4.0	13.1	1,500
	3	**SM05B-LBTAKS-TD-N2T-K(HF)**	10.2	5.45	2.0	11.1	1,500
	1	**SM03B-LBTAKS-TD-N2T-K(HF)**	8.2	3.45	—	9.1	1,500

Material and Finish
Signal contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Power supply contact: Copper alloy, copper-undercoated, tin-plated (reflow treatment) Housing: Heat resisting resin, UL94V-0 Solder tab: Copper alloy, copper-undercoated, tin-plated (reflow treatment)

RoHS compliance
Note: The products listed above are supplied on embossed-tape.