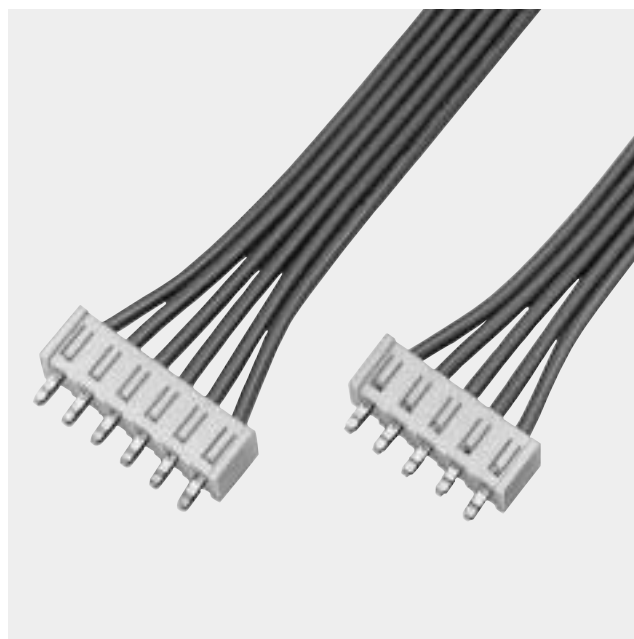
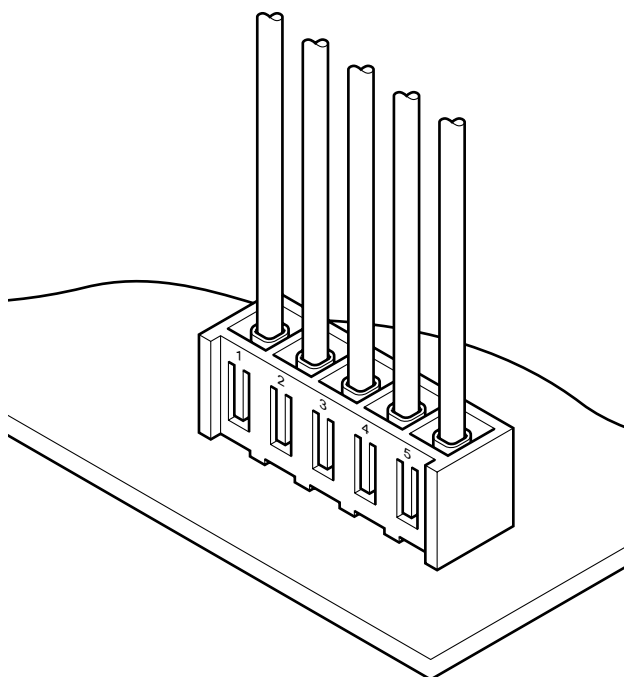


## SDN CONNECTOR

Board-in Crimp style connectors



**The SDN connector is a 3.96mm (.156") pitch board-in crimp style connector capable of connecting a wide variety of circuits including signal and power supply circuits. The connector features a slim, low-profile design. In addition, it has an exclusive lance construction to reduce insertion force, thus substantially improving the working efficiency in mounting the contact.**



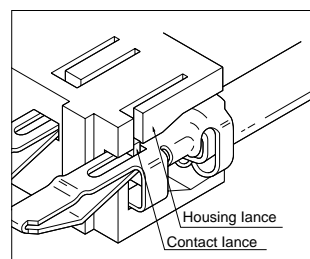
## Features

• **Slim, low-profile design**

The connector has a 3.96mm (.156") pitch that allows the connection of a large-capacity (7A) circuit, yet it has a slim, low-profile design, with a mounting height of 7.0mm (.276") and width of 6.2mm (.244").

• **Easy and secure contact mounting**

The housing and contact are secured by the housing lance and the contact lance which make use of the contact spring. The contact is easily inserted into the housing with little force, and is locked securely.

• **Improved solderability**

The part of the contact which is to be inserted into the printed circuit board has a wider area to be soldered. Solderability of the contact is thus improved when mounted onto a printed circuit board.

• **Polarizing boss**

Connectors with or without polarizing boss are available. A boss on the bottom of the housing prevents the connector from being mounted on the printed circuit board in reversed polarity.

## Specifications

- Current rating: 7A AC, DC (AWG #18)
  - Voltage rating: 250V AC, DC
  - Temperature range: -25°C to +85°C  
(including temperature rise in applying electrical current)
  - Insulation resistance: 1,000M min.
  - Withstanding voltage: 1,500V AC/minute
  - Applicable wire: AWG #22 to #18
  - Applicable PC board thickness: 1.6mm(.063")
- \* Contact JST for details.

## Standards

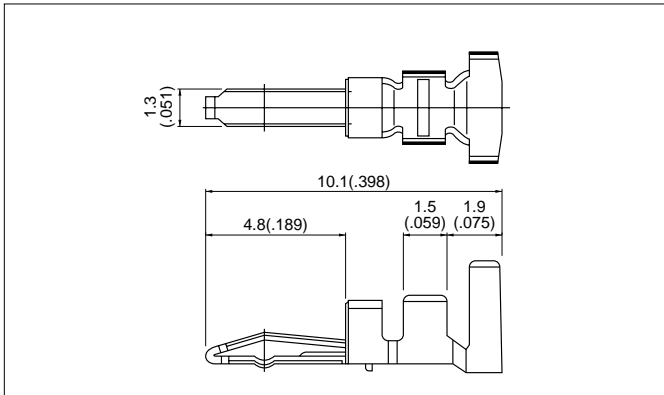
Recognized E60389

Certified LR20812

R9151560

# SDN CONNECTOR

## Contact

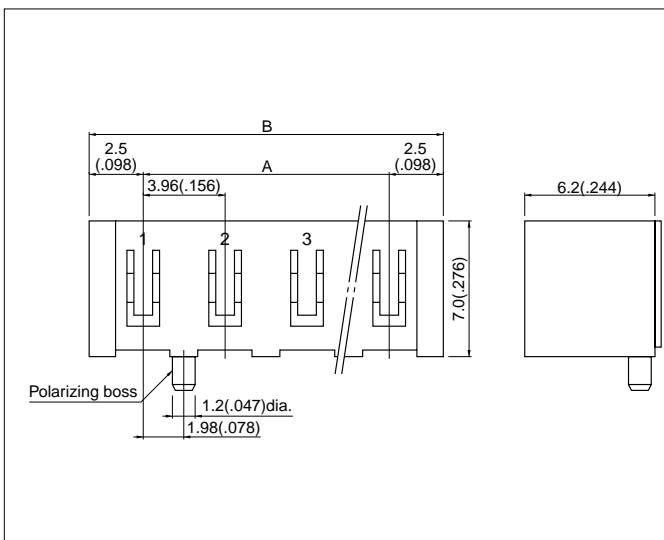


Model No.	Applicable wire			Q'ty / reel
	mm <sup>2</sup>	AWG #	Insulation O.D.mm(in.)	
<b>SDN-21T-P1.5</b>	0.33 to 0.83	22 to 18	1.6 to 3.0(.063 to .118)	5,000

### Material and Finish

Phosphor bronze, tin-plated

## Housing

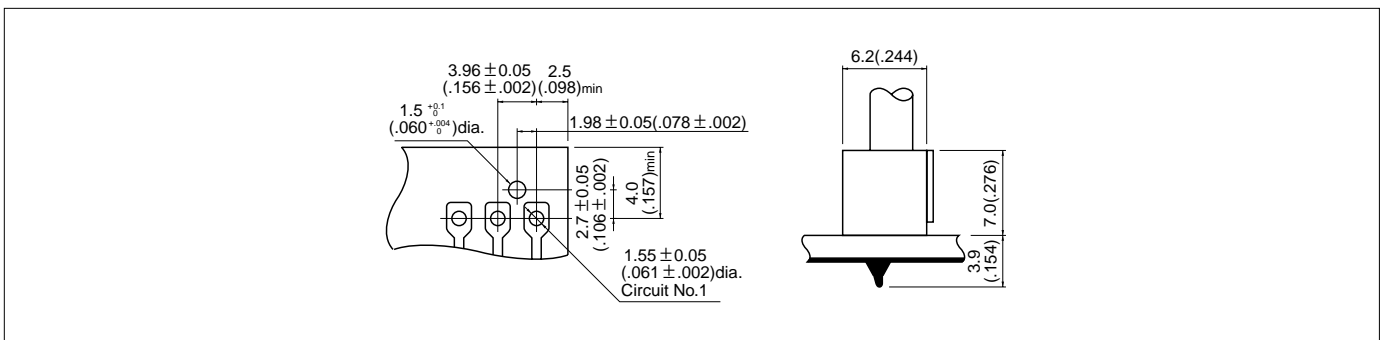


Circuits	Model No.		Dimensions mm(in.)		Q'ty / bag
	With polarizing boss	Without polarizing boss	A	B	
2	<b>2P-SDN</b>	<b>2P-SDN-A</b>	3.96( .156)	8.96( .353)	1,000
3	<b>3P-SDN</b>	<b>3P-SDN-A</b>	7.92( .312)	12.92( .509)	1,000
4	<b>4P-SDN</b>	<b>4P-SDN-A</b>	11.88( .468)	16.88( .665)	1,000
5	<b>5P-SDN</b>	<b>5P-SDN-A</b>	15.84( .624)	20.84( .820)	1,000
6	<b>6P-SDN</b>	<b>6P-SDN-A</b>	19.80( .780)	24.80( .976)	500
7	<b>7P-SDN</b>	<b>7P-SDN-A</b>	23.76( .935)	28.76(1.132)	500
8	<b>8P-SDN</b>	<b>8P-SDN-A</b>	27.72(1.091)	32.72(1.288)	500
9	<b>9P-SDN</b>	<b>9P-SDN-A</b>	31.68(1.247)	36.68(1.444)	500
10	<b>10P-SDN</b>	<b>10P-SDN-A</b>	35.64(1.403)	40.64(1.600)	500
11	<b>11P-SDN</b>	<b>11P-SDN-A</b>	39.60(1.559)	44.60(1.756)	500
12	<b>12P-SDN</b>	<b>12P-SDN-A</b>	43.56(1.715)	48.56(1.912)	500

### Material

Nylon 66, UL94V-0, natural (white)

## PC board layout (viewed from soldering side) and Assembly layout



### Note:

1. Tolerances are non-cumulative:  $\pm 0.05\text{mm}(\pm .002")$  for all centers. For connectors with 5 or more circuits the hole dimensions will differ from the above values. Contact JST for details.
2. Hole dimensions differ according to the kind of PC board and piercing method. The dimensions above should serve as a guideline.

# SDN CONNECTOR

## *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
SDN-21T-P1.5	APLMK SDN21-15	APLNC SDN21-15	—	—	APLSC SDN21-15