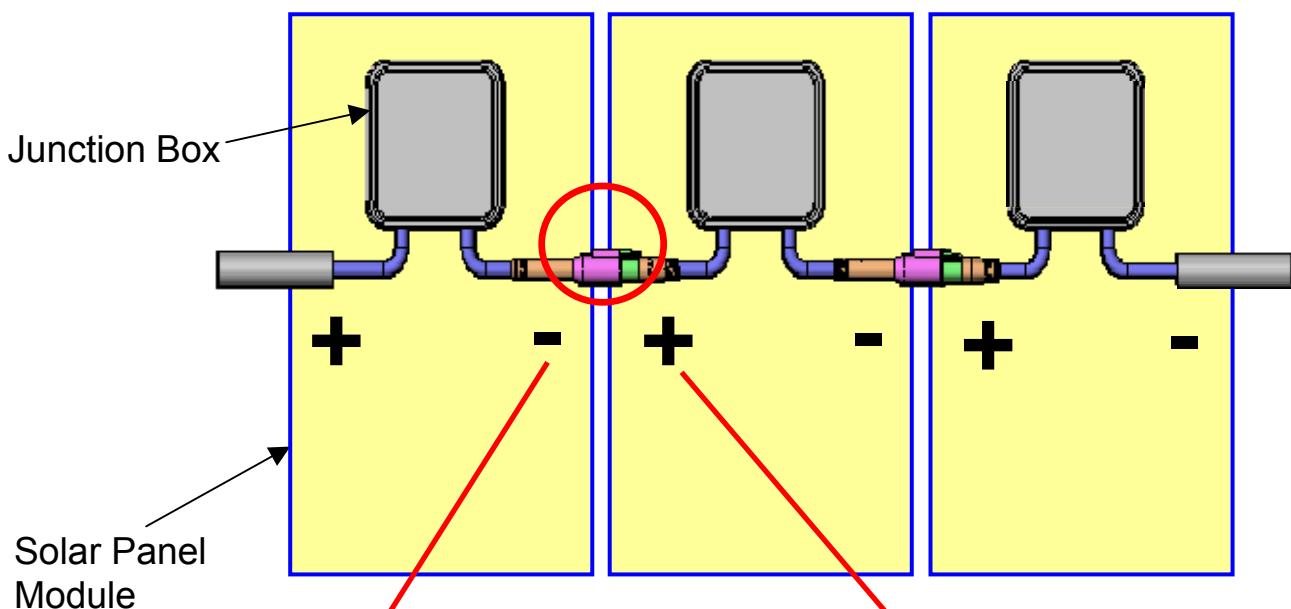
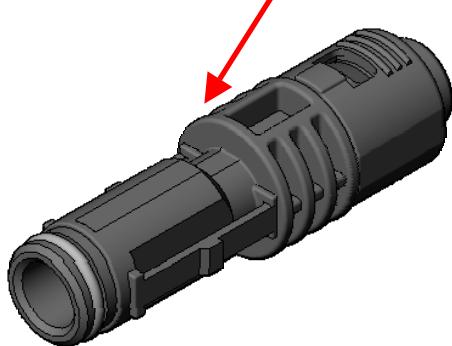


**RoHS Compliant**Connections of Solar Panel Modules (Reference)Pin Connector (-)Socket Connector (+)**Summary**

The KB1 Series are high-current interconnect connectors for solar panel modules. Just align the connectors, and mating is smoothly completed with an audible and tactile click. The KB1 Series can be easily assembled on site because of the small number of parts.

## Features

- Appearance: Compact size (17.8mm in diameter).
- Lock mechanism (mating): Center impeller type prevents deformation of the spring caused by rough mating and un-mating.
- Smooth insertion and mating of the connectors within 180 Deg. C of rotation.  
(Please refer to supporting documents)
- Lock mechanism (un-mating): Simple lock structure, clear click sound when releasing, one action to un-mate.

## General Specifications

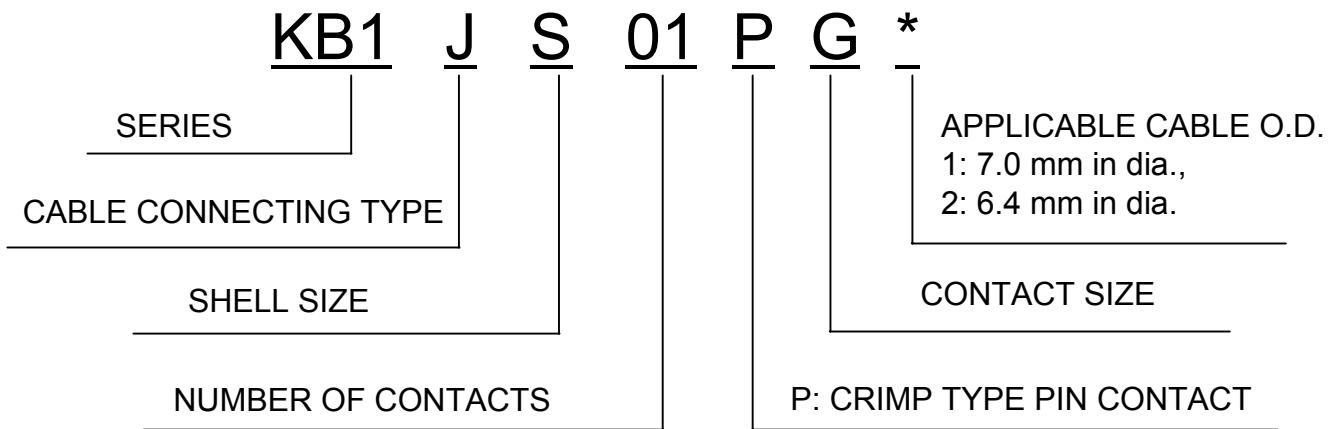
- Number of Contacts: 1 pos.
- Rated Current: 25 A max. (KB1-12-PC/SC)  
10A max. (KB1-12-PC2/SC2)
- Rated Voltage: 1000 VDC / 6000 VAC; Pollution Degree: 3; Over Voltage Category: III
- Contact Resistance: 1.5 mΩ max. (KB1-12-PC/SC), 4 mΩ max. (KB1-12-PC2/SC2)
- Dielectric Withstanding Voltage: 6,000 V
- Operating Temperature Range: -40 Deg. C to 90 Deg. C
- Protection Degree: IP-67 (when mated)

## Materials and Finishes

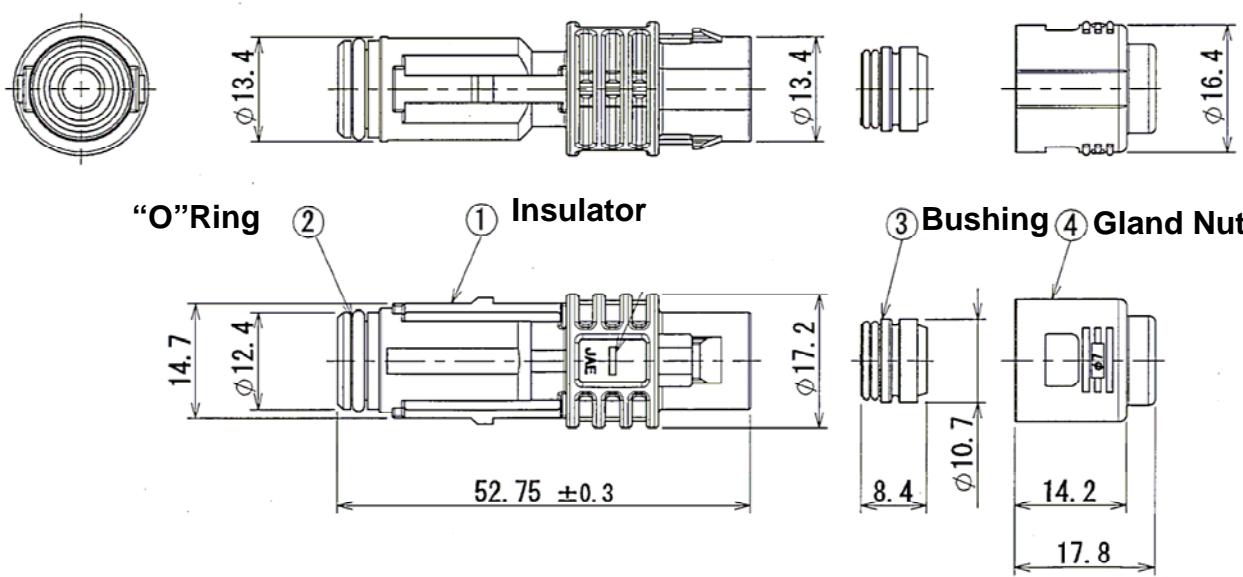
Component	Material and Finish
Contact	Copper Alloy / Silver Plating
Insulator	Synthetic Resin
Bushing	Synthetic Rubber
Gland Nut	Synthetic Resin
“O” ring	Synthetic Resin

## Ordering Information

## Pin Connector



Part Number	Drawing No.	Cable Size
KB1JS01PG1	SJ108904	7.0 mm in dia.
KB1JS01PG2		6.4 mm in dia.



## Ordering Information

## Socket Connector

**KB1 J S 01 S G \* L**

SERIES

SHELL SIZE

CABLE CONNECTING TYPE

NUMBER OF CONTACTS

L: WITH UNLOCK TAB

APPLICABLE CABLE O.D.

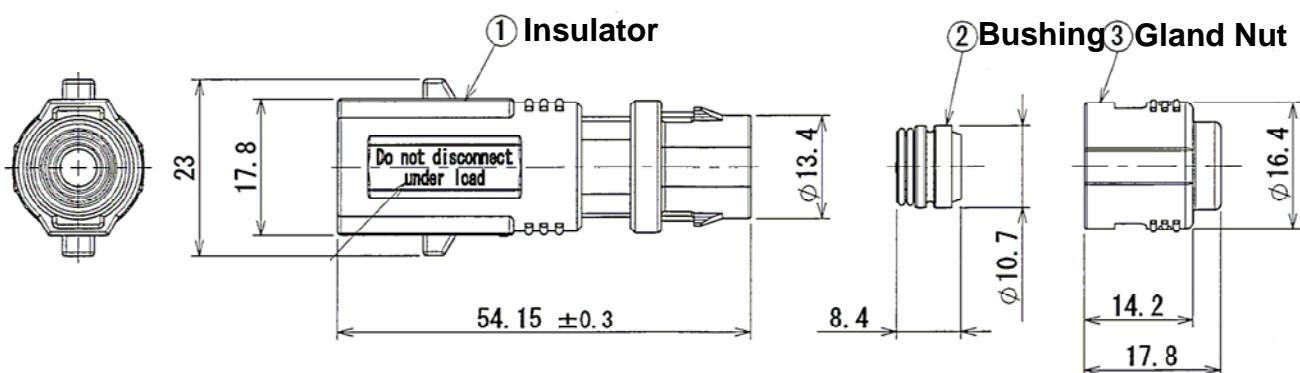
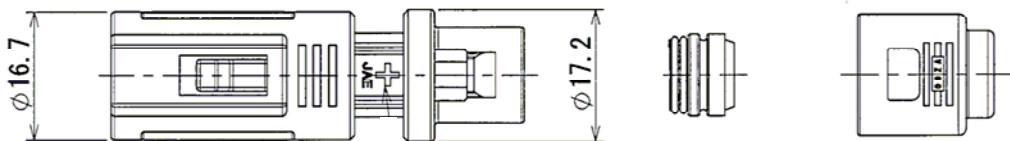
1: 7.0 mm in dia.

2: 6.4 mm in dia.

CONTACT SIZE

S: CRIMP TYPE SOCKET CONTACT

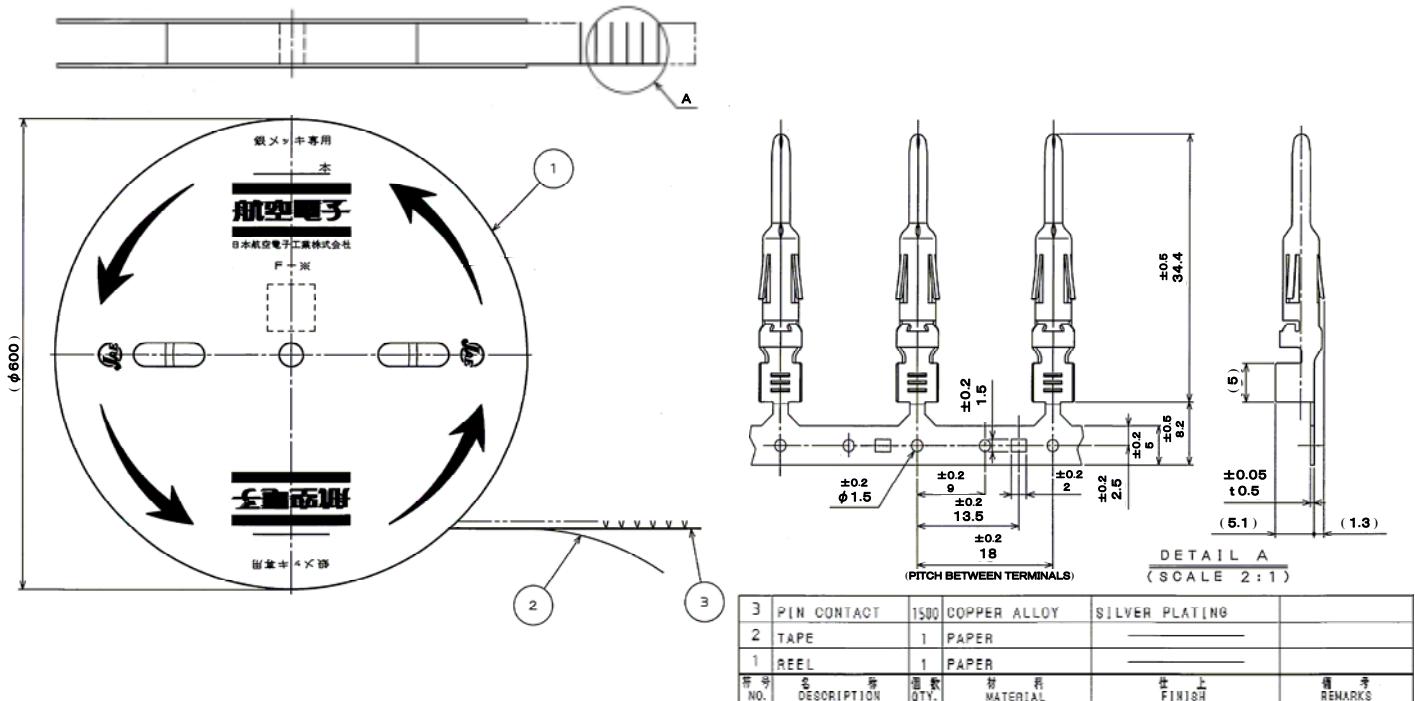
Part Number	Drawing No.	Cable Size
KB1JS01SG1L	SJ110287	7.0 mm in dia.
KB1JS01SG2L		6.4 mm in dia.



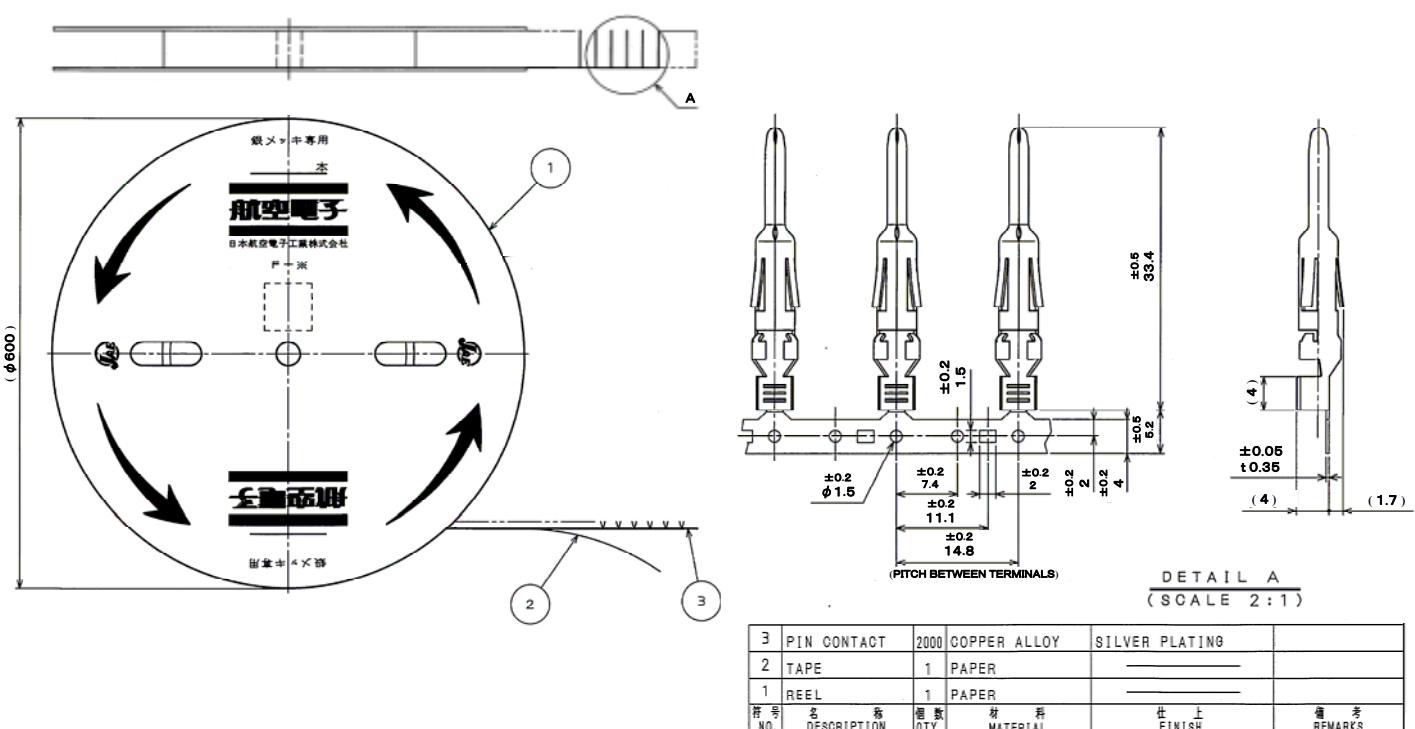
### Ordering Information

### Pin Contact

Part Number	Drawing No.	Conductor Size	Quantity
KB1-12-PC-1500	SJ108969	3.5 to 4 mm <sup>2</sup>	1,500 pcs/reel



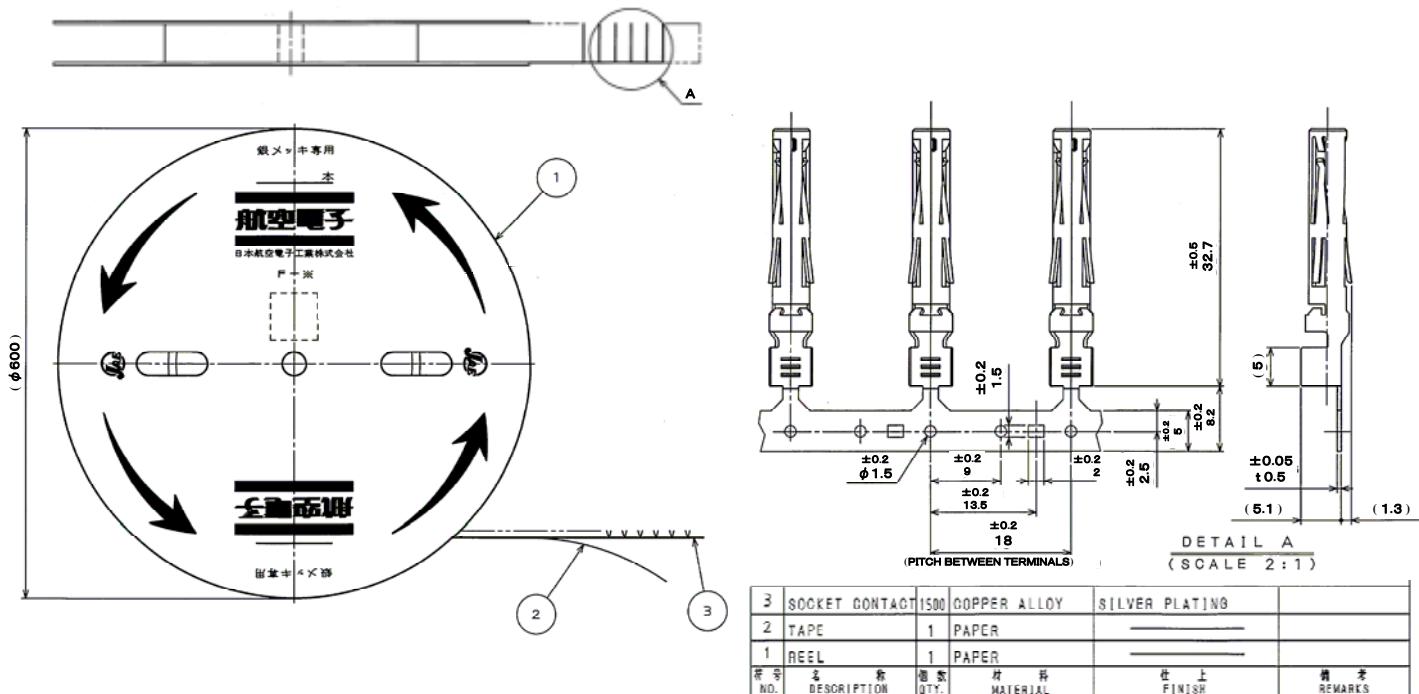
Part Number	Drawing No.	Conductor Size	Quantity
KB1-12-PC2-2000	SJ110313	2.0 to 2.5 mm <sup>2</sup>	2,000 pcs/reel



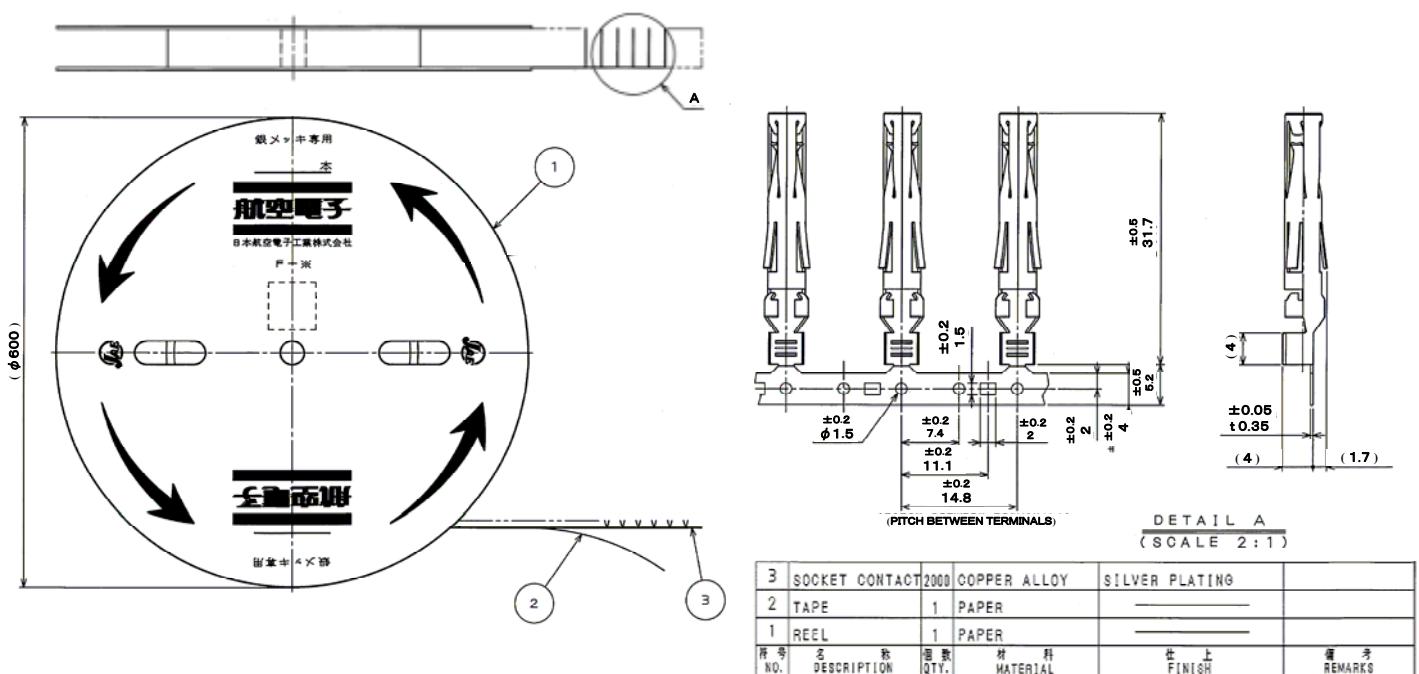
## Ordering Information

## Socket Contact

Part Number	Drawing No.	Conductor Size	Quantity
KB1-12-SC-1500	SJ108970	3.5 to 4.0 mm <sup>2</sup>	1,500 pcs/reel



Part Number	Drawing No.	Conductor Size	Quantity
KB1-12-SC2-2000	SJ110314	2.0 to 2.5 mm <sup>2</sup>	2,000pcs/reel



## Crimping Tool

Conductor Size	Hand Tool	Press	Semi Automatic Applicator
3.5mm <sup>2</sup> dia.	CT170-11-KB1-35	CP240-1	350 - KB1 - 10
2.0mm <sup>2</sup> dia.	CT170-11-KB1-25		350 - KB1B - 10

## Technical Bulletin

Specification	JACS-50028
Instruction Manual	JAHL-50028

**Notice:** Products shown in this brochure are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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\* The specifications in this brochure are subject to change without notice. Please contact JAE for information.