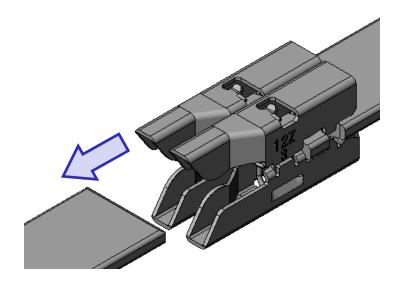




High-current Busbar Connector **DW07 Series**

CONNECTOR MB-0296-1 May 2015



Part Numbers

DW07S01BAG1 DW07S01BAG2 DW07S01BAG3 DW07S01BAG4

RoHS Compliant

Overview

The DW07 Series connector is used to easily connect power busbars in high-current equipment.

The DW07 Series is an innovative connector solution that uses no screws, providing substantial benefits over the conventional multiple-screw methods. The DW07 reduces the time needed for installation and maintenance. The elimination of screws also means the connector requires less operating space, allowing for higher density installation. And the ability to attach from the front side of equipment offers greater freedom of design.

Features

■ Floating Connection

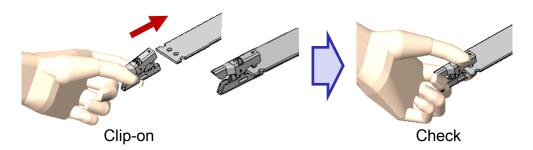
The DW07 Series compensates for mis-alignment between the rigid busbars being connected.

■ Flexible Current Amount

The amount of current that can be conducted is easily adjusted by changing the number of DW07 Series connectors attached to one line.

■ Attachment Without Using Screws

Connector attaches easily with one hand, clipping onto mating holes in the busbar.



General Specifications

■ Rated Current: Refer to Chart 1

■ Contact Resistance:

 $0.13m\Omega$ max. (initial)

 $0.16m\Omega$ max. (after test)

■ Acceptable Tolerance: Refer to Figure 1

■ Durability: 100 times

■ Operating Temperature:

-25°C to +105°C

(including conduction temperature rise)

■ Applicable Busbar:

JIS H 3140 Ag plating

Chart 1: Rated Current

| Cable | Busbar Size (mm) | | Rated Current (A) | | | | | | | |
|-------|---------------------|-------|-------------------|------|--------------------|------|--------------------|------|--------------------|------|
| Size | | | Using 1 connector | | Using 2 connectors | | Using 3 connectors | | Using 4 connectors | |
| (mm²) | Thickness | Width | 30 K | 65 K | 30 K | 65 K | 30 K | 65 K | 30 K | 65 K |
| 50 | 3 | 15 | 130 | 194 | - | - | - | - | - | - |
| 60 | 4 | 15 | 144 | 215 | - | - | - | - | - | - |
| 80 | 3 | 25 | 164 | 246 | 205 | 305 | - | - | - | - |
| | 5 | 15 | 161 | 239 | - | - | - | - | - | - |
| 100 | 4 | 25 | 188 | 280 | 224 | 332 | - | - | - | - |
| | 6 | 15 | 168 | 252 | - | - | - | - | - | - |
| 125 | 3 | 38 | 208 | 308 | 266 | 396 | 292 | 436 | - | - |
| | 5 | 25 | 210 | 315 | 268 | 400 | - | - | - | - |
| 150 | 3 | 50 | 222 | 330 | 294 | 437 | 325 | 481 | 340 | 506 |
| | 4 | 38 | 228 | 341 | 290 | 430 | 320 | 474 | - | - |
| | 6 | 25 | 228 | 338 | 270 | 400 | - | - | - | - |
| 200 | 4 | 50 | 259 | 386 | 338 | 502 | 381 | 567 | 400 | 599 |
| | 5 | 38 | 250 | 372 | 326 | 483 | 357 | 530 | - | - |
| 250 | 5 | 50 | 277 | 414 | 361 | 537 | 400 | 595 | 425 | 632 |
| | 6 | 38 | 261 | 388 | 336 | 498 | 373 | 555 | _ | - |
| 325 | 6 | 50 | 274 | 413 | 358 | 572 | 438 | 651 | 461 | 685 |

^{*} Rated Current = Current value (in A) that temperature rise will be 30 K or 65 K x safety ratio (80%)

^{*} Rated current depends on the size of the busbar and the number of connectors used.



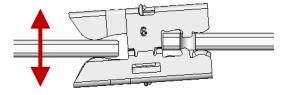


Using 2 connectors

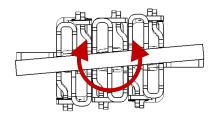


Using 3 connectors

Figure 1: Acceptable Tolerances



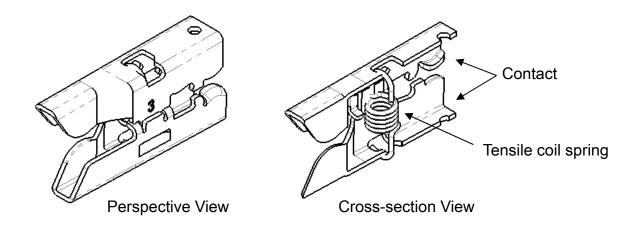
Vertical: ±2.5mm



Rotation: ±1.5deg

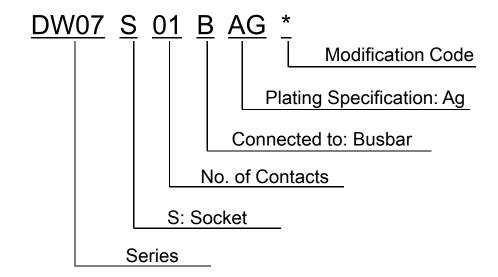
^{*} Calculated based on the examination results of the connection of the above shown cable (2m) and busbar (10cm).

Materials and Finishes



| Component | Material and Finish | |
|---------------------|---------------------------|--|
| Contact | Copper alloy / Ag plating | |
| Tensile coil spring | Stainless steel | |

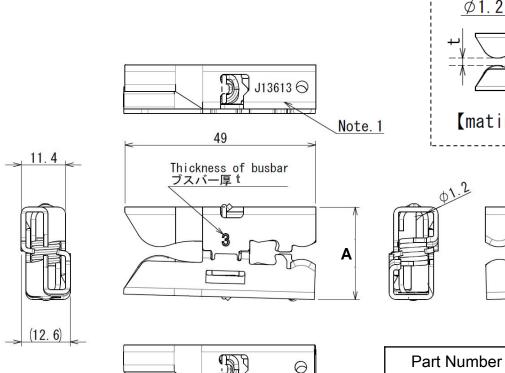
Ordering Information

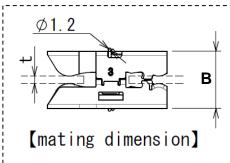


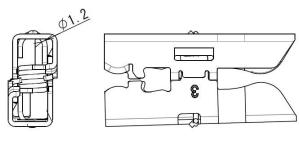
Technical Documents

| Part Number | SJ Drawing | Specifications | Handling Instructions | |
|-------------|------------|----------------|--------------------------|--|
| DW07S01BAG1 | SJ114199 | | JAHL-30309 | |
| DW07S01BAG2 | SJ114200 | JACS-30309 | (Assembly work) | |
| DW07S01BAG3 | SJ114201 | JACS-30309 | JAHL-30309-1 | |
| DW07S01BAG4 | SJ114202 | | (For engineer) | |

Product Drawings









DW07S01BAG1 (23.7)23.4 DW07S01BAG2 (24.7)24.4 **DW07S01BAG3** 25.4 (25.7)DW07S01BAG4 (26.7)26.4

Α

В

Year

Note 1: Lot No. will be shown as in the figure.

生産日(DAY)

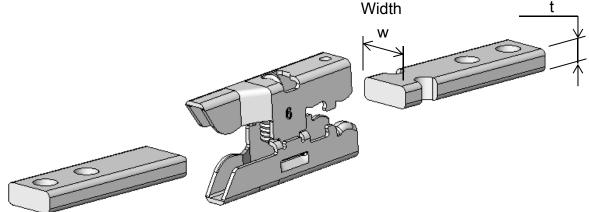
月 (10月:0,11月:X,12月:Y) (MONTH OCT:0,NOV:X,DEC:Y)

年(西暦下2桁) Yaer - Lower 2 digits of A.D.

製造コード (PRODUCT CODE)

<<Applicable Busbar Size>>

Thickness



Applicable Busbar Thickness (t)

| Part Number | t |
|-------------|-----|
| DW07S01BAG1 | 3mm |
| DW07S01BAG2 | 4mm |
| DW07S01BAG3 | 5mm |
| DW07S01BAG4 | 6mm |

Applicable Busbar Width (w)

| Number of Atttached Connectors | w | Tolerance |
|--------------------------------------|------|-----------|
| 1 connector | 15mm | ±1mm |
| 2 connectors | 25mm | ±1mm |
| 3 connectors | 38mm | ±1mm |
| 4 connectors | 50mm | ±1mm |

Notice:

- 1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
- 2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
- 3. The products presented in this brochure are designed for the uses recommended below.

We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.

- (1) Applications that require consultation:
- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

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(ii) We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as:

Aviation or space equipment, submarine repeaters, nuclear power control systems, medical equipment for life support, etc.

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc

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