

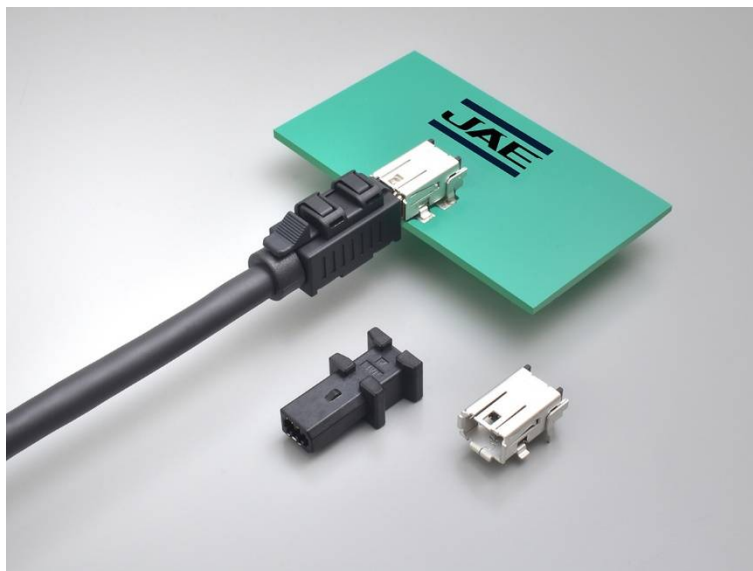
1.27mm pitch Interface Connector

CONNECTOR

**DZ02 Series**

MB-0286-2

May 2020

**RoHS Compliant**

The DZ02 Series is a compact interface connector for industrial applications. It features a locking mechanism with excellent vibration resistance and is suitable for use in harsh environmental conditions. The product series is compatible with industrial Gigabit Ethernet connector standard, IEC61076-3-122 (TYPE-1), and is optimal for the connection between a controller unit (servo amplifier) and safety equipment as an I/O connector.

**Applications**

Servo amplifiers, motion controllers, PLCs (programmable logic controller), and other industrial equipment

**Features**

- Safety connector compatible with IEC61076-3-122 (TYPE- I)
- Locking mechanism with excellent vibration resistance
- Supports SMT mounting with excellent coplanarity (Receptacle)
- Structure that prevents solder flux scattering by covering bottom surface of contact area (Receptacle)
- Embossed tape packaging to support automated mounting (Receptacle)
- Available in single or both end harness (Plug harness)

## General Specifications

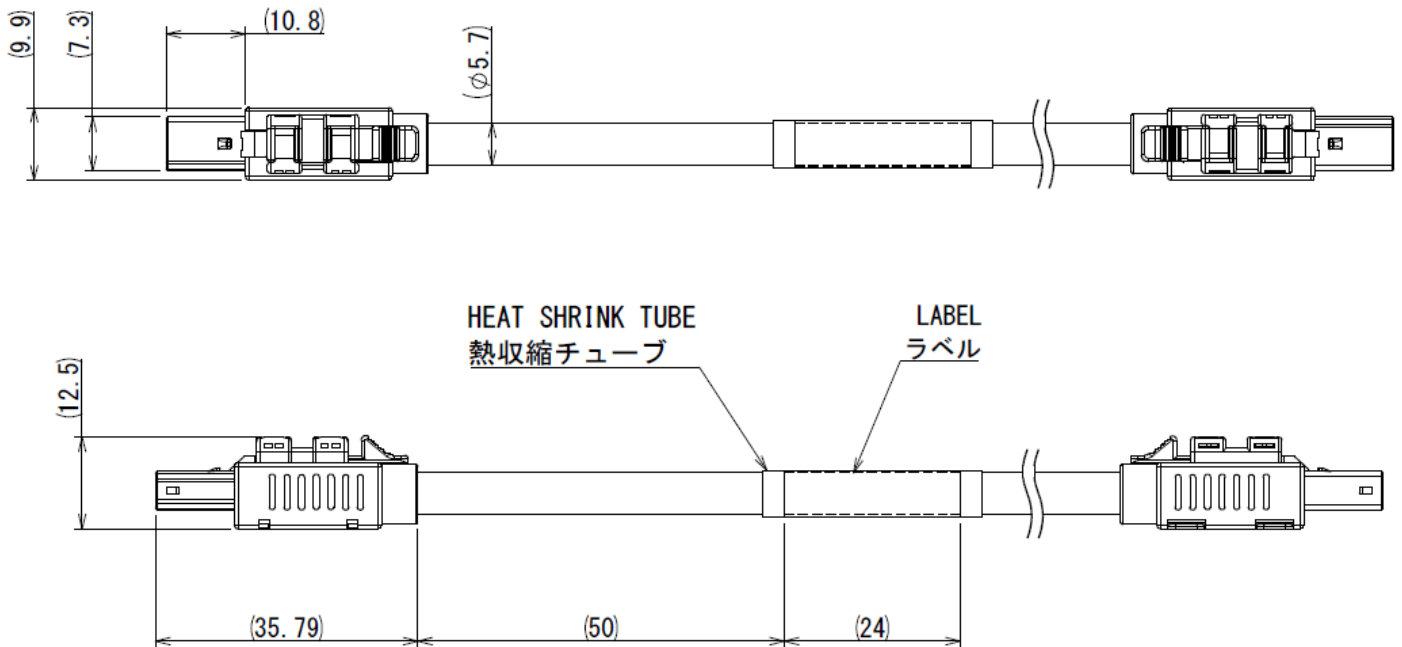
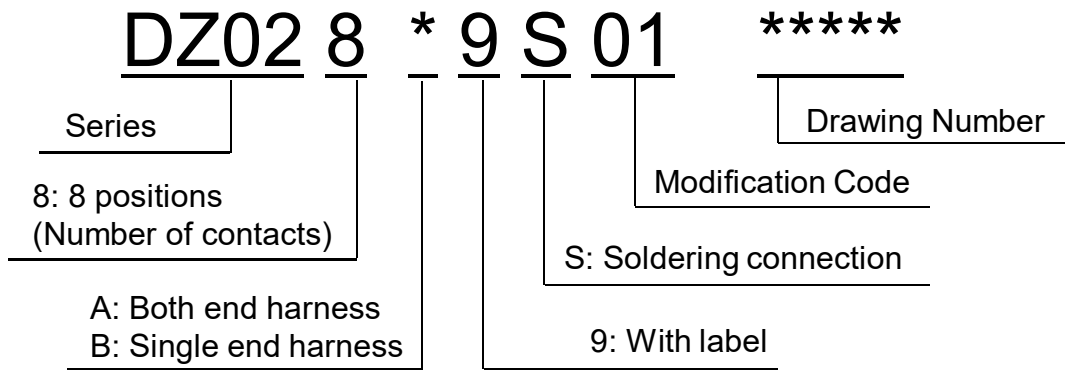
|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Pitch                           | 1.27mm                                                             |
| Number of Contacts              | 8 contacts (2 rows x 4 contacts)                                   |
| Rated Current                   | 0.5A                                                               |
| Rated Voltage                   | AC 30Vr.m.s.                                                       |
| Contact Resistance              | Plug mating: 40mΩ max.<br>Short circuit plug mating: 80mΩ max.     |
| Insulation Resistance           | Individual connector 500 MΩ min.<br>(DC100V applied)               |
| Dielectric Withstanding Voltage | Individual connector AC250Vr.m.s for 1 minute                      |
| Operating Temperature Range     | -40° C to +85° C<br>(including temperature rise due to conduction) |
| Durability                      | Plug mating: 1500 times<br>Short-circuit plug: 1000 times          |

## Line-up

| Items                   | Part Number     |
|-------------------------|-----------------|
| Both end Plug Harness   | DZ028A*S01***** |
| Single end Plug Harness | DZ028B*S01***** |
| Receptacle              | DZ02R008NC1     |
| Short-circuit Plug      | DZ02B008DC1     |

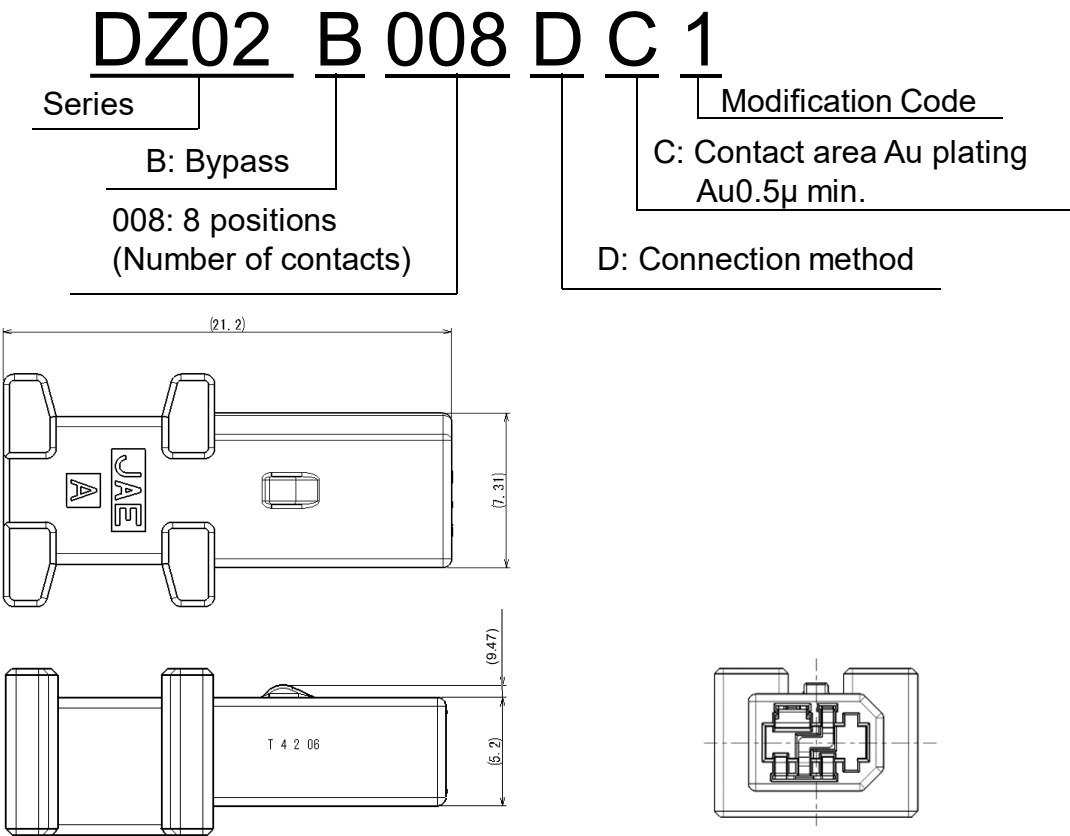
## Materials and Finishes

| Products           | Parts       |           | Materials / Finishes                               |
|--------------------|-------------|-----------|----------------------------------------------------|
| Plug harness       | Plug        | Insulator | Synthetic resin                                    |
|                    |             | Shell     | Steel / Nickel plating                             |
|                    |             | Contact   | Copper alloy / Contact area gold plating           |
|                    | Cable       |           | 26AWG Twisted pair cable<br>(CAT.5e stranded wire) |
|                    | Label       |           | PET                                                |
|                    | Shrink Tube |           | PVDF                                               |
| Receptacle         | Insulator   |           | Synthetic resin                                    |
|                    | Shell       |           | Copper alloy / Tin plating                         |
|                    | Contact     |           | Copper alloy / Contact area gold plating           |
| Short-circuit Plug | Insulator   |           | Synthetic resin                                    |
|                    | Contact     |           | Copper alloy / Contact area gold plating           |

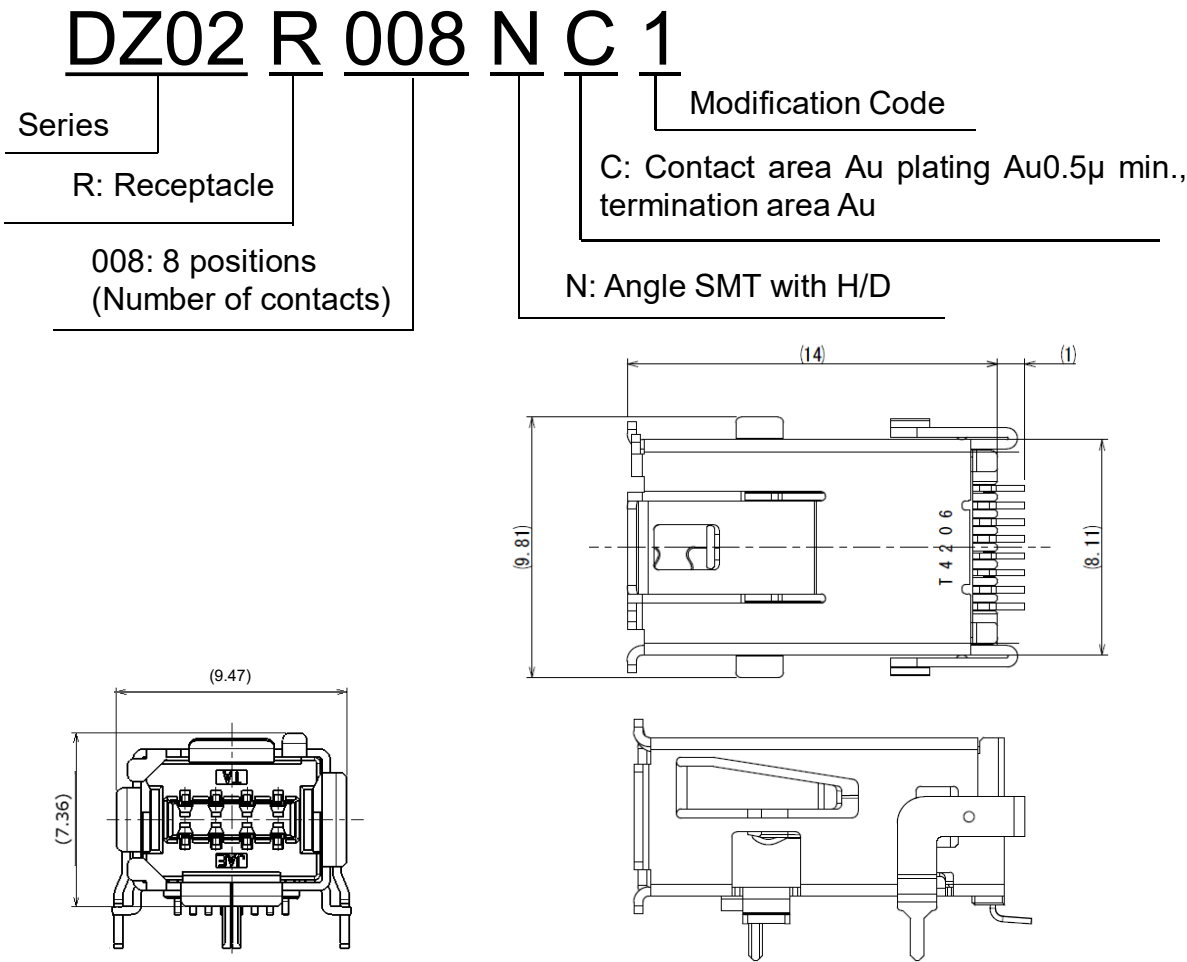
**Plug Harness**

Note: In case of single end harness the opposing end will be a non-terminated pig-tail.

Short-circuit Plug



Receptacle



|                              |
|------------------------------|
| Part Number / Drawing Number |
|------------------------------|

| Part number                                     | Drawing  | Specification |
|-------------------------------------------------|----------|---------------|
| DZ028A9S0122288<br>Plug harness, both end, 1m   | SJ122288 | JACS-30337    |
| DZ028A9S0122289<br>Plug harness, both end, 3m   | SJ122289 |               |
| DZ028B9S0122266<br>Plug harness, single end, 1m | SJ122266 |               |
| DZ028B9S0122043<br>Plug harness, single end, 3m | SJ122043 |               |
| DZ02R008NC1<br>Receptacle                       | SJ114928 |               |
| DZ02B008DC1<br>Short-circuit Plug               | SJ114930 |               |

**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:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(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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