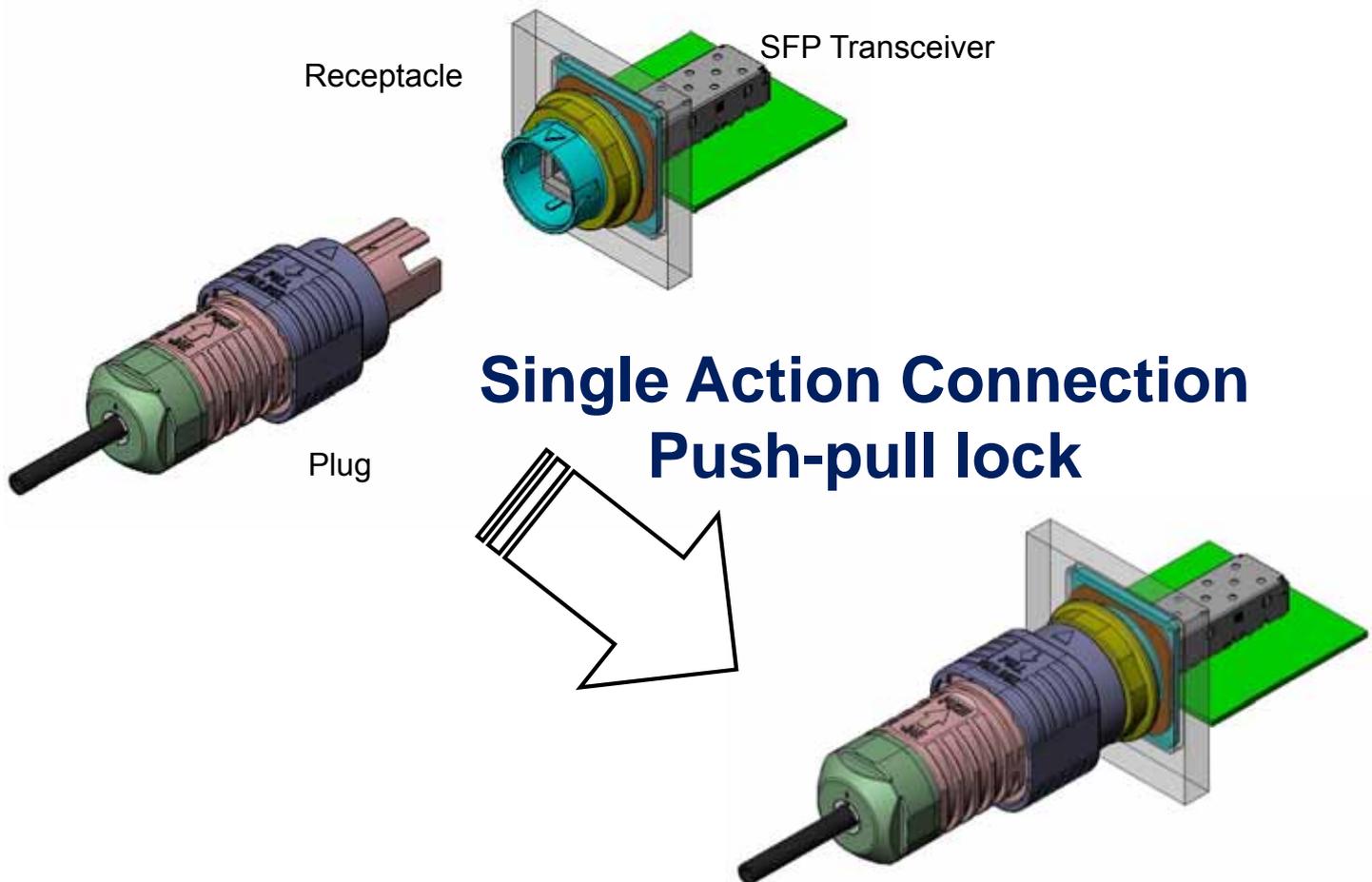


NEW



SFP Direct Connection Waterproof I/O FO-BD6 Series

CONNECTOR
MB-0314-1
October 2016



The FO-BD6 Series is a waterproof I/O connector that can connect with an on-board SFP transceiver by a single action. It features a reduction in both size and weight by using plastic material with superior environmental resistance. The FO-BD6 Series is ideal for use in a wide range of outdoor applications such as base stations of mobile phones and communication devices.

Features

- Single-action connection achieved with a three-axis floating structure.
- IP67 dustproof and waterproof, ideal for outdoor use with excellent environmental resistance performance.
- Compact and lightweight with plastic connector body.
- Space-saving compact design, including applicable cable length.

Applicable Markets

- Base stations for mobile phones and smartphones.
- Outdoor installed equipment, such as security cameras.

General Specifications

| Item | Specification and Performance |
|----------------------------------|---|
| Operating Temperature | -40 Deg. C to +85 Deg. C (Individual connector) |
| Applicable Cable Diameter | Φ5mm |
| Repeated Mating | 500 times |
| Cable Clamp Strength | 100N min. |
| Dustproof/Waterproof Performance | IP67 (When mated) |
| Corrosion Resistance | 1,000 hours in salt mist |

Materials and Finishes

Receptacle:

| Component | Material and Finish |
|-----------|---------------------------|
| Shell | Weather Resistant Plastic |
| O-Ring | Synthetic Rubber |

Plug:

| Component | Material and Finish |
|-----------|---------------------------|
| Barrel | Weather Resistant Plastic |
| Gland Nut | Weather Resistant Plastic |
| Bushing | Synthetic Rubber |
| O-Ring | Synthetic Rubber |

Waterproof Cap for Receptacle:

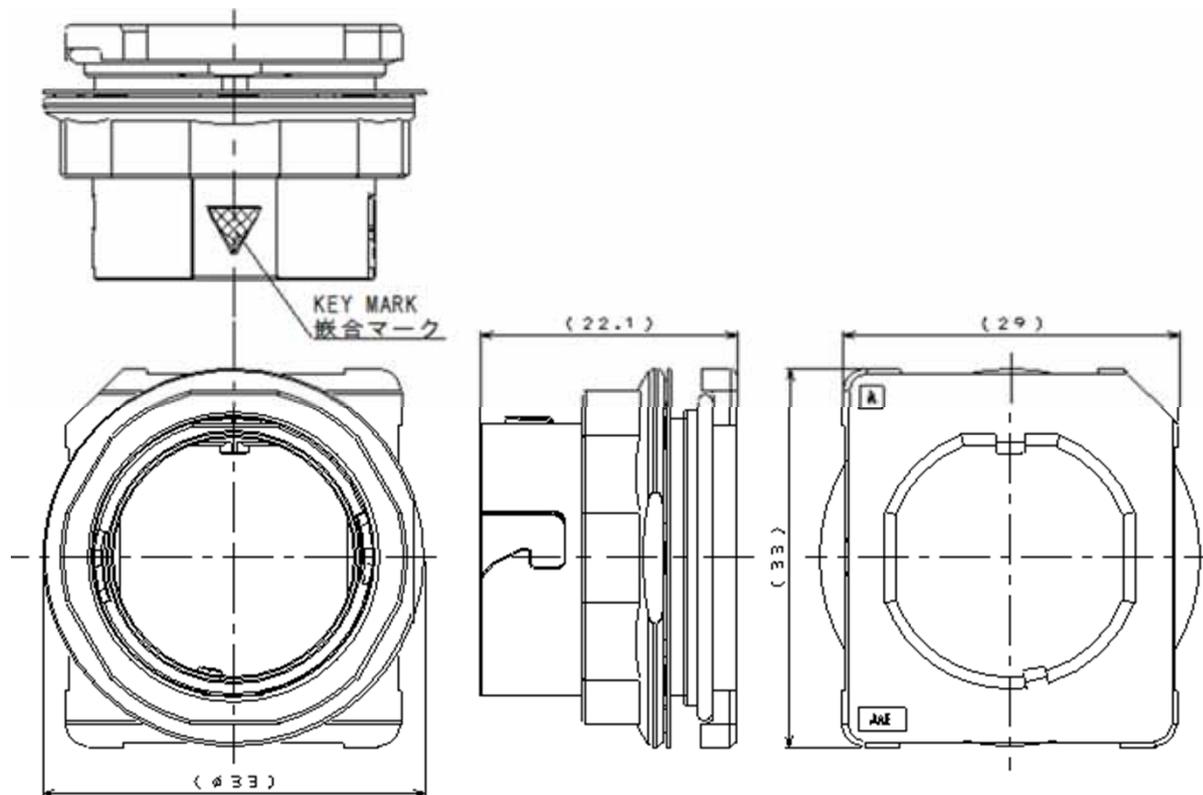
| Component | Material and Finish |
|-----------|---------------------------|
| Cap | Weather Resistant Plastic |

Ordering Information

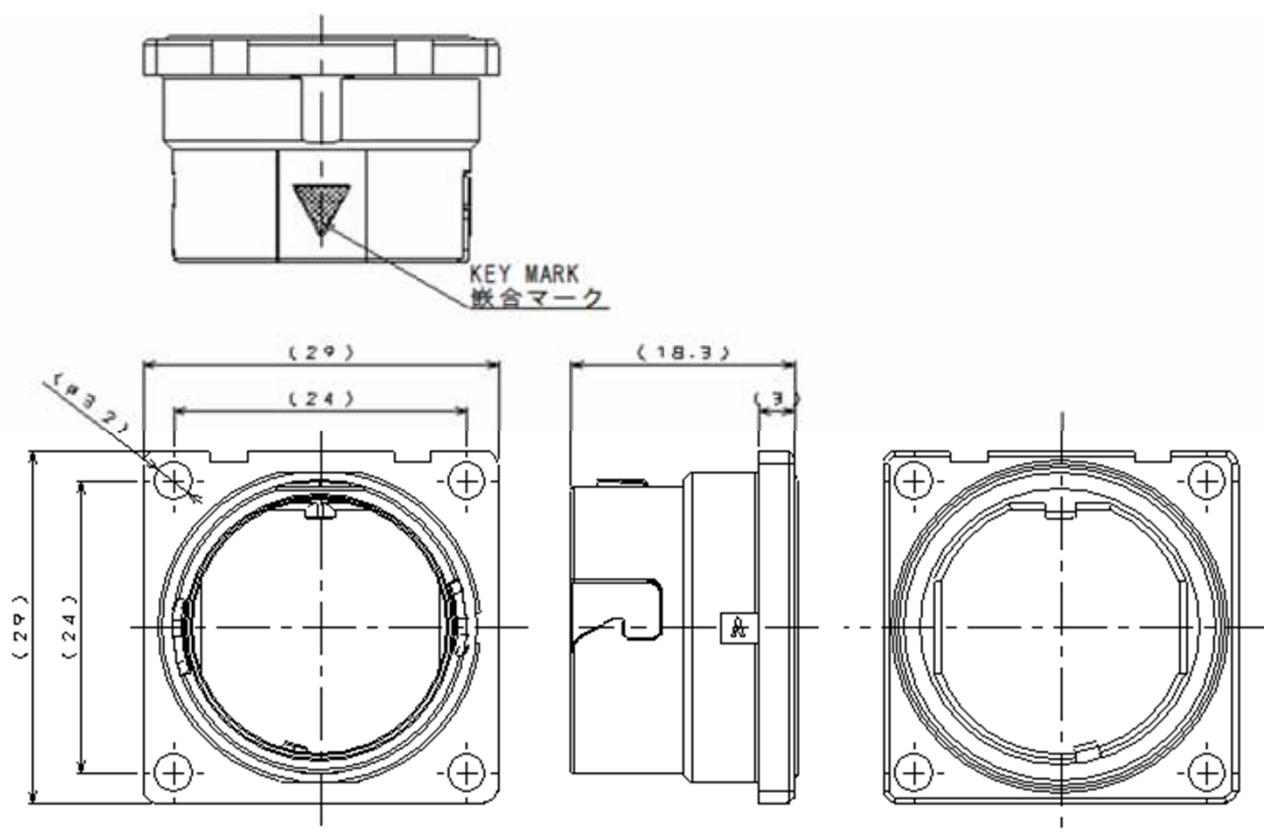
| Type | | Part Number | SJ Drawing | Specifications | Handling Instructions |
|-------------------------------|----------------------|--------------|------------|---|-----------------------|
| Receptacle | Jam Nut Mounted Type | FO-BD6-R-B-F | SJ116087 | Please contact us for details. (Adjustment of receptacle attachment location will be needed in accordance with the SFP module used.) | |
| | 4-point Screw Type | FO-BD6-R-S | SJ116088 | | |
| Plug | | FO-BD6-P-S | SJ116090 | | |
| Waterproof Cap for Receptacle | | FO-BD6-R-DC | SJ116089 | | |

Outer Dimensions

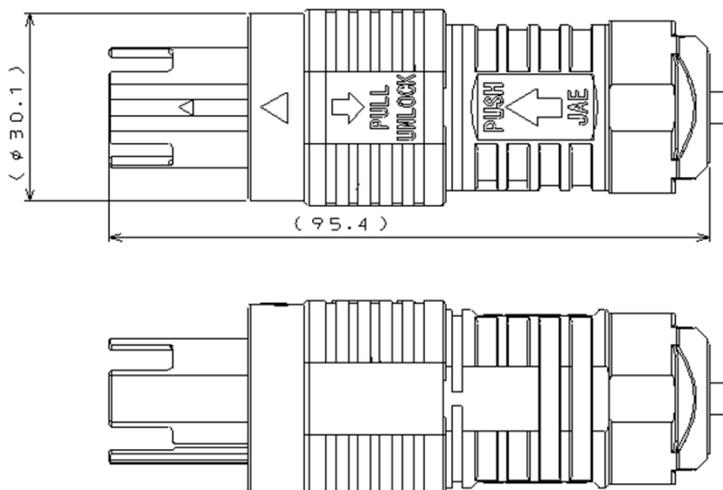
Receptacle: FO-BD6-R-B-F



Receptacle: FO-BD6-R-S

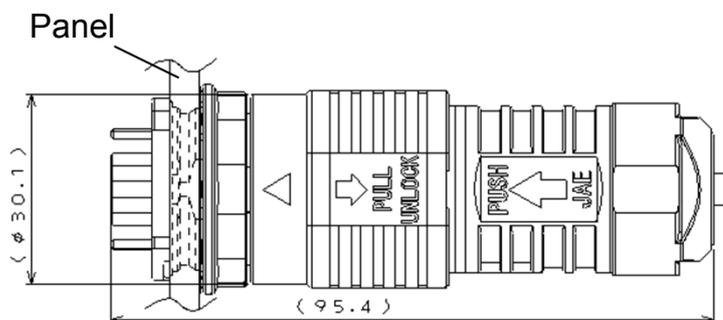


Plug: FO-BD6-P

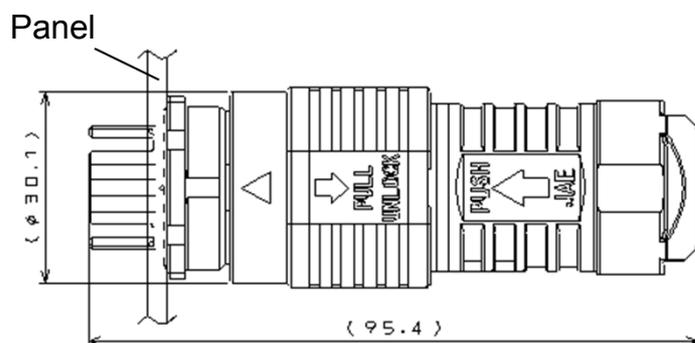


When Mated

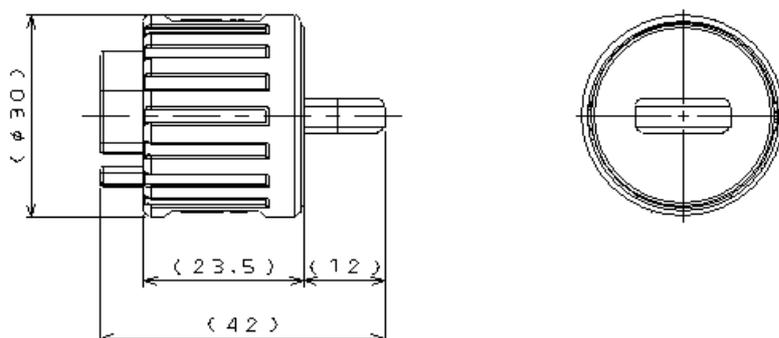
- Receptacle: FO-BD6-R-B-F



- Receptacle: FO-BD6-R-S



Waterproof Cap for Receptacle: FO-BD6-R-DC



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.

Japan Aviation Electronics Industry, Limited

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