



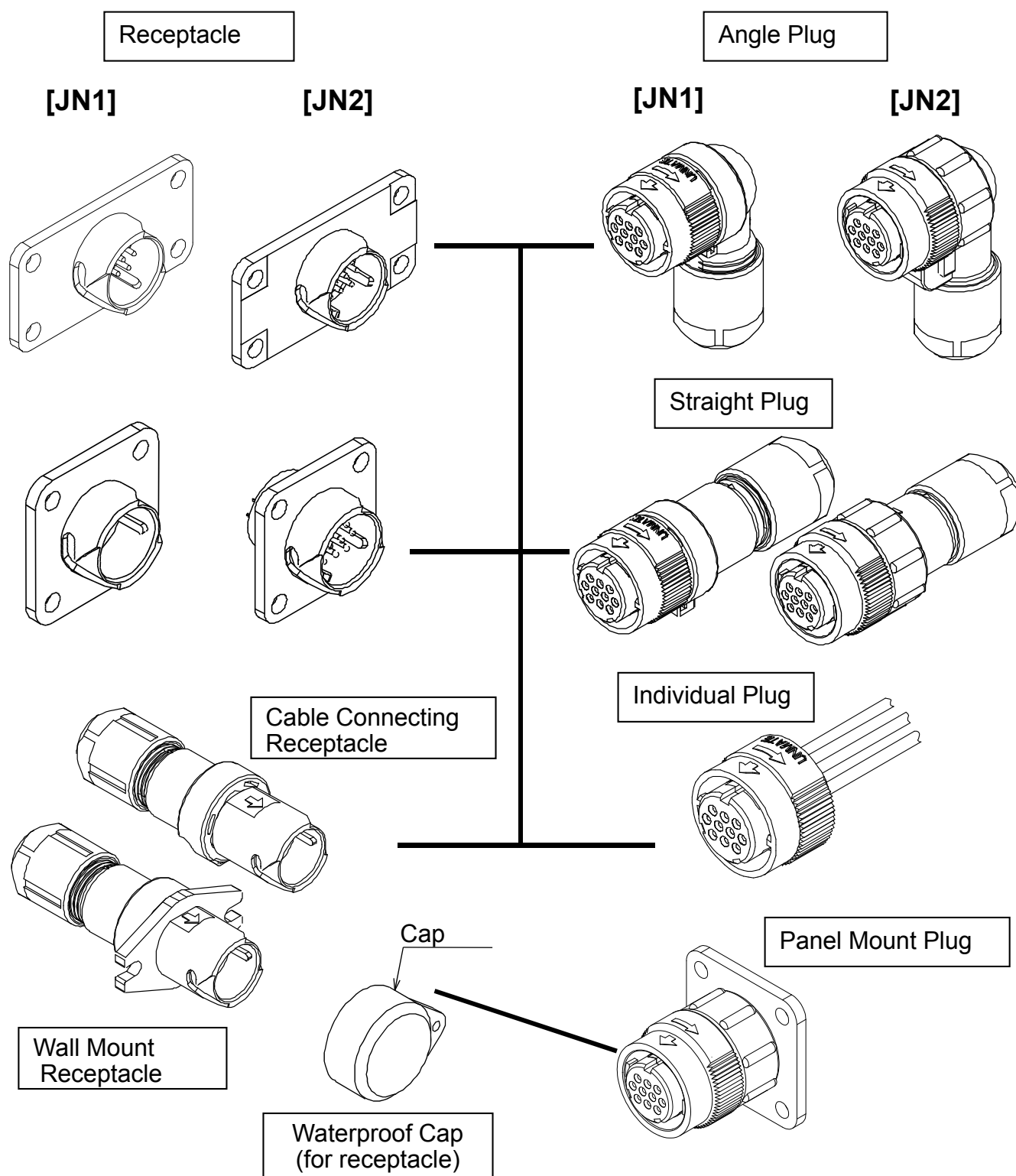
# Small Circular Connector

## JN1/JN2 Series

CONNECTOR

MB-0054-11

May 2018



The JN1/JN2 Series is a waterproof circular connector with one-touch locking mechanism developed as an interface for industrial devices. It is available in an all-plastic type, JN1, and a partially metal-reinforced robust type, JN2. Both are compact designs and suitable for a variety of electronic devices. The 4-contact JN2 is TUV certified. (Patent and design registration applications have been filed.)

## Features

### [JN1]

- An all plastic lightweight connector.
- Easy and secure mating with push-and-twist type one-touch locking mechanism.
- Terminal specifications for receptacle and plug differ by series and number of contacts, please refer to general specifications for each product. Socket contact for 10 position plug is available in both crimp and solder terminations.

The 4-contact receptacle does not incorporate grounding in its shell. Properly grounding the shell will be required in implementing the connector.

- Crimp terminated relay receptacle is available in cable-relay and wall-mount receptacle types (both 4 and 10 positions).
- Plugs available in straight and angled back shell types and individual coupler only type (10 position only). The cable direction of the angle plug can be set in four orientations by rotating the plug in 90 degree increments.
- Mating height of angle plug is 30.8mm from panel surface (both 4 and 10 positions). Individual plug is low profile 16.9mm (10 position only).
- IP67 rated waterproof and dustproof.
- Superb environment-proof performance with vibration and oil resistance.
- Suitable for conduit mounting (except for individual coupler type plug).

### [JN2]

- Mating compatibility to JN1, with considerably reinforced with metal material in part of the outer shell (strength increased threefold over JN1).
- Uses same crimp contact as the JN1.
- Terminal specification for receptacle and plug differs by series and number of contacts, please refer to general specification for each product. 4-contact receptacle body is grounded.
- 4-contact type is TUV certified.
- Plug is available in straight and angle types. The cable direction of the angle plug can be set in four orientations by rotating the plug in 90 degree increments.
- Contact variations: 4, 10 pos.
- Angle plug mating height is 31.3mm from cabinet surface (both 4 and 10 positions).
- IP67 rated waterproof and dustproof.
- Superb environment-proof performance with vibration and oil resistance.
- Suitable for conduit mounting.

## General Specifications

### [JN1]

| Item   | Specification and Performance   |   |
|--|---|---|
| Number of Contacts                             | 10 position   | 4 position  |
| Rated Current                                  | 3A/pin (#22 size contact)   | 5A/pin (#20 size contact)   |
| Rated Voltage                                  | 200VAC  | 200VAC  |
| Withstanding Voltage                           | 900VAC (per minute)   | 2000VAC (per minute)  |
| Insulation Resistance                          | 1000M ohm min.(DC500V energized )   | 1000M ohm min.(DC500V energized )   |
| Waterproof                                     | IP67  | IP67  |
| Airtightness<br>(Individually<br>Waterproofed) | 2.9 x 10 <sup>4</sup> PA (per minute)<br>without leakage  | 2.9 x 10 <sup>4</sup> PA (per minute)<br>without leakage  |
| Operating Temperature                          | -20 Deg. C to +125 Deg.C  | -20 Deg. C to +125 Deg.C  |
| Specification of Wire<br>Connection            | Receptacle: Through-hole, solder<br>connection 22AWG (0.3mm <sup>2</sup> ) max.<br>Cable connecting receptacle:<br>Crimp connection 20 to 28AWG<br>Plug: Crimp connection 20 to 28AWG<br>Solder connection 20AWG max. | Receptacle: Solder connection<br>18 AWG (0.75mm <sup>2</sup> ) max.<br><br>Cable connecting receptacle and plug:<br>Solder connection<br>16 AWG (1.25mm <sup>2</sup> ) max. |
| Product Specification                          | JACS-5111   | JACS-5111-2   |
| Instruction Manual                             | JAHL-5111   | JAHL-5111   |
| Durability                                     | 500 mating cycles   | 500 mating cycles   |

**[JN2]**

| Item  | Specification and Performance  |  |
|---|--|--|
| Number of Contacts                          | 10 position  | 4 position   |
| Rated Current                               | 3A / pin (#22 size contact)  | 5A / pin (#20 size contact)  |
| Rated Voltage                               | 200VAC   | 400VAC (degree of pollution 2, excess voltage category 3)  |
| Withstanding Voltage                        | 900VAC (per minute)  | 2000VAC (per minute)   |
| Insulation Resistance                       | 1000M ohm min.<br>(DC500V energized)   | 1000M ohm min.<br>(DC500V energized)   |
| Waterproof                                  | IP67   | IP67   |
| Airtightness<br>(Individually Waterproofed) | 2.9 X 10 <sup>4</sup> PA (per minute)<br>without leakage   | 2.9 X 10 <sup>4</sup> PA (per minute)<br>without leakage   |
| Operating Temperature                       | -20 Deg. C to +100 Deg.C   | -20 Deg. C to +100 Deg.C   |
| Specification of Wire Connection            | Receptacle:<br>Through-hole, solder connection,<br>22AWG (0.3mm <sup>2</sup> ) max.<br><br>Plug:<br>Crimp connection 20 to 28AWG<br>Solder connection 20AWG max. | Receptacle:<br>Solder connection,<br>18AWG (0.75mm <sup>2</sup> ) max.<br><br>Plug:<br>Solder connection 16AWG (1.25mm <sup>2</sup> ) max. |
| Product Specification                       | JACS-5119  | JACS-5119-2  |
| Instruction Manual                          | JAHL-5119  | JAHL-5119  |
| Durability                                  | 500 mating cycles  | 500 mating cycles  |

Please refer to individual drawings for detailed product information.

|                        |
|------------------------|
| Materials and Finishes |
|------------------------|

**[JN1]**

|                     | Component         | Material / Finish  |
|---------------------|-------------------|--|
| Receptacle          | Pin insulator     | Synthetic resin  |
|                     | Pin contact       | Copper alloy / Au plating (10 pin), Silver plating (4 pin) |
| Relay<br>Receptacle | Insulator         | Synthetic resin  |
|                     | Assembly nut      | Synthetic resin  |
|                     | Straight endbell  | Synthetic resin  |
|                     | O Ring            | Synthetic rubber   |
|                     | Bushing*          | Synthetic rubber (Color: black/gray/brick red/dark green)  |
|                     | Gland nut         | Synthetic resin  |
|                     | Pin contact (#22) | Au plating   |
|                     | Pin contact (#20) | Silver plating   |
| Plug                | Front insulator   | Synthetic resin  |
|                     | Rear insulator    | Synthetic resin  |
|                     | Coupling nut      | Synthetic resin  |
|                     | Assembly nut      | Synthetic resin  |
|                     | Angle endbell     | Synthetic resin  |
|                     | Straight endbell  | Synthetic resin  |
|                     | O Ring            | Synthetic rubber   |
|                     | Bushing (*)       | Synthetic rubber (Color: black/gray/brick red/dark green)  |
|                     | Gland nut         | Synthetic resin  |
|                     | Spring            | Stainless steel  |
|                     | Spring pin        | Stainless steel  |
|                     | Socket contact    | Copper alloy / Au plating (10 pin), Silver plating (4 pin) |
| Waterproof Cap      | Cap               | Synthetic rubber   |

\*Color of bushing is determined by applicable wire size.

| Color of Bushing | Applicable Cable |
|------------------|------------------|
| Gray             | 6.5 to 8.0 Dia.  |
| Black            | 5.7 to 7.3 Dia.  |
| Dark Green       | 4.7 to 5.7 Dia.  |
| Brick Red        | 3.5 to 5.0 Dia.  |

**[JN2]**

|                | Component        | Material / Finish   |
|----------------|------------------|---|
| Receptacle     | Pin insulator    | Synthetic resin   |
|                | Shell            | Zinc die-cast / Zinc plating                                  |
|                | Pin contact      | Copper alloy / Au plating (10 pin),<br>Silver plating (4 pin) |
| Plug           | Front insulator  | Synthetic resin   |
|                | Rear insulator   | Synthetic resin   |
|                | Coupling nut     | Zinc die-cast / Zinc plating (Black)                          |
|                | Assembly nut     | Zinc die-cast / Zinc plating (Black)                          |
|                | Angle endbell    | Synthetic resin   |
|                | Straight endbell | Synthetic resin   |
|                | O Ring           | Synthetic rubber  |
|                | Bushing*         | Synthetic rubber<br>(Color: black/gray/brick red/dark green)  |
|                | Gland nut        | Synthetic resin   |
|                | Spring           | Stainless steel   |
|                | Spring pin       | Stainless steel   |
|                | Socket contact   | Copper alloy / Au plating (10 pin),<br>Silver plating (4 pin) |
| Waterproof Cap | Cap              | Synthetic rubber  |

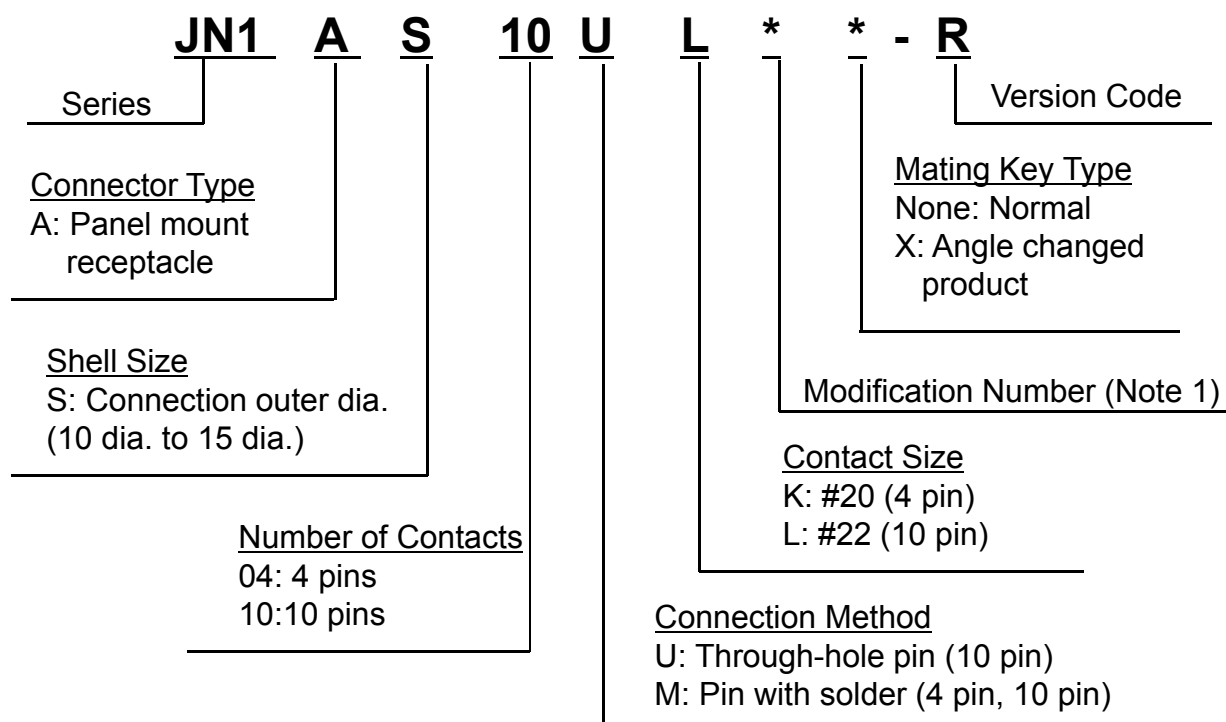
\*Color of bushing is determined by applicable wire size.

| Color of Bushing | Applicable Cable |
|------------------|------------------|
| Gray             | 6.5 to 8.0 Dia.  |
| Black            | 5.7 to 7.3 Dia.  |
| Dark Green       | 4.7 to 5.7 Dia.  |
| Brick Red        | 3.5 to 5.0 Dia.  |

## Ordering Information

### [JN1]

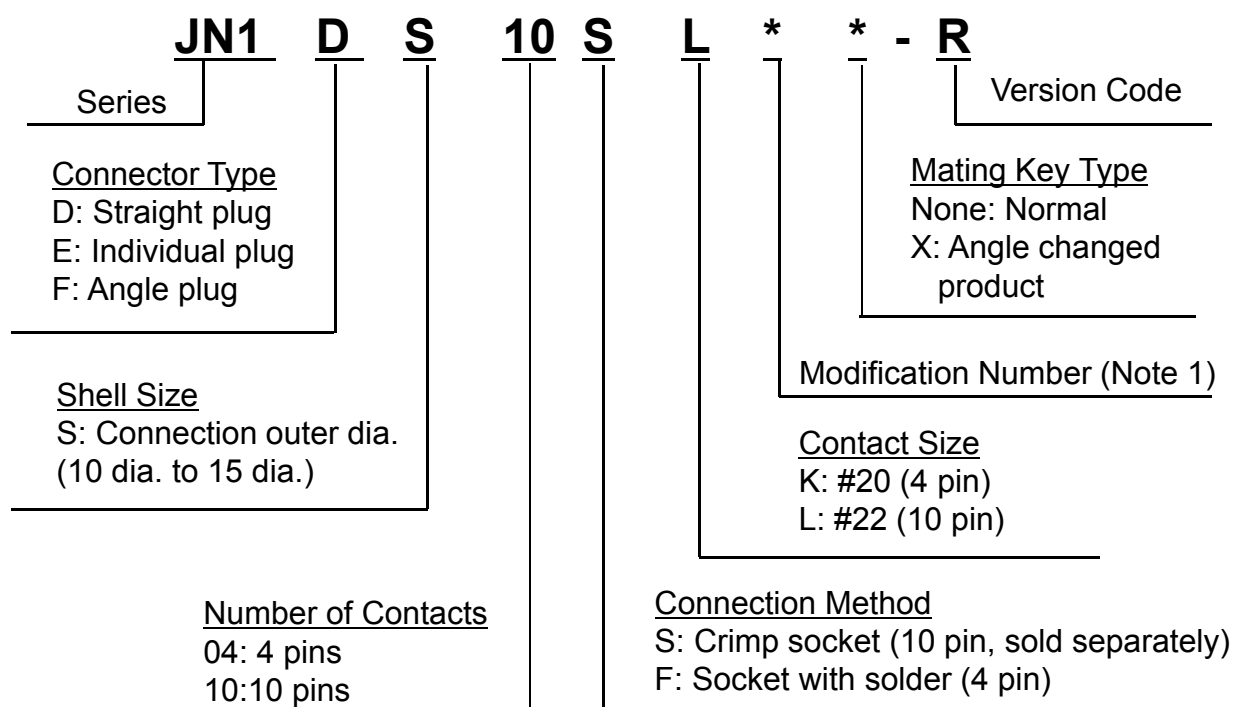
#### Receptacle



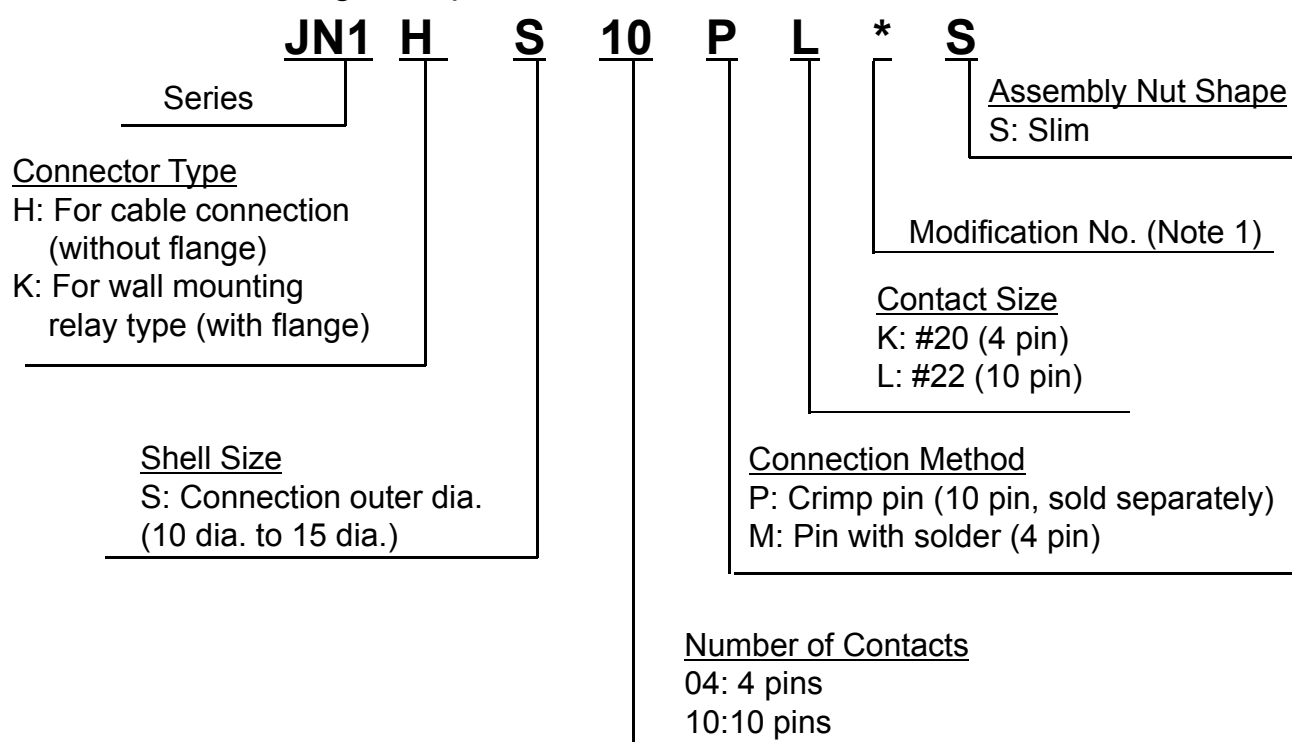
Note 1: Please refer to product drawings for Modification Number.

### [JN1]

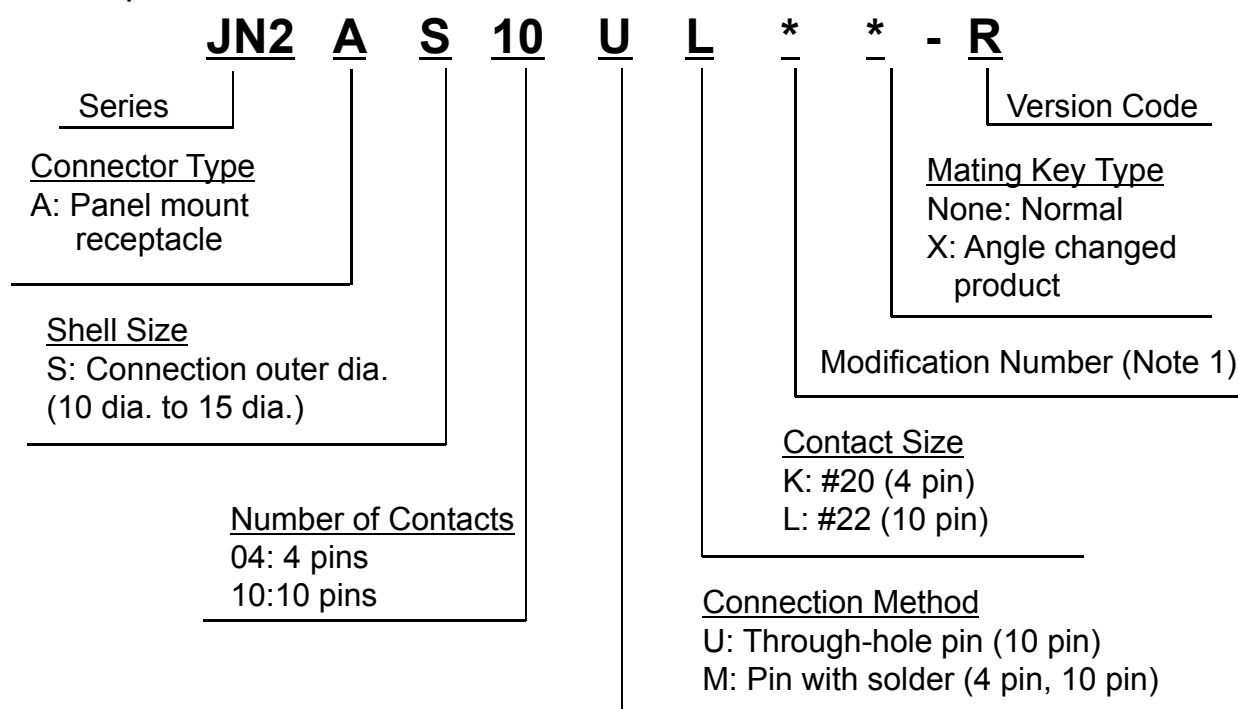
#### Plug



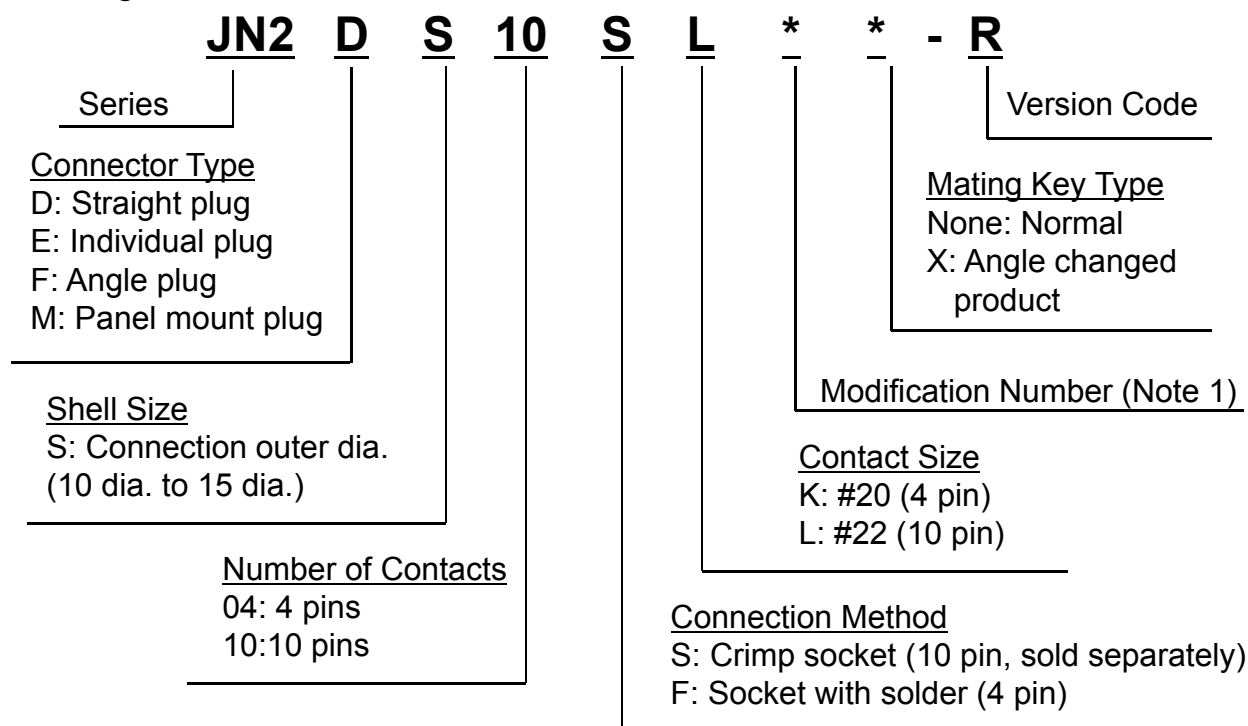
Note 1: Please refer to product drawings for Modification Number.

**[JN1]****Cable Connecting Receptacle**

Note 1: Please refer to product drawings for Modification Number.

**[JN2]**Receptacle

Note 1: Please refer to product drawings for Modification Number.

**[JN2]**Plug

Note 1: Please refer to product drawings for Modification Number.



## ■ Part Number List

| Series | No. of Contacts | Connector Type              | Part Number   | Drawing Number | Performance / Shape   |
|--------|-----------------|-----------------------------|---------------|----------------|---|
| JN1    | 4               | Square Flange Receptacle    | JN1AS04MK1    | SJ035649       | Individually waterproofed, solder pin   |
|        |                 |                             | JN1AS04MK1X   | SJ035649       | Individually waterproofed, solder pin, X position   |
|        |                 | Cable Connecting Receptacle | JN1HS04MK1-R  | SJ105206       | Waterproof (when mated), solder pin, cable dia. 5.7 to 7.3  |
|        |                 |                             | JN1HS04MK2-R  | SJ105206       | Waterproof (when mated), solder pin, cable dia. 6.5 to 8.0  |
|        |                 |                             | JN1HS04MK4S   | SJ105841       | Waterproof (when mated), solder pin, cable dia. 4.7 to 5.7, Outer diameter: 20 dia. max.              |
|        |                 |                             | JN1HS04MKKS   | SJ107658       | Waterproof (when mated), solder pin, cable dia. 20 max., kit type (with four types of rubber bushing) |
|        |                 | Wall Mount Receptacle       | JN1KS04MK1-R  | SJ105207       | Waterproof (when mated), solder pin, cable dia. 5.7 to 7.3  |
|        |                 |                             | JN1KS04MK2-R  | SJ105207       | Waterproof (when mated), solder pin, cable dia. 6.5 to 8.0  |
|        |                 | Straight Plug               | JN1DS04FK1    | SJ035666       | Waterproof (when mated), solder socket cable dia. 5.7 to 7.3  |
|        |                 |                             | JN1DS04FK1X   | SJ035666       | Waterproof (when mated), solder socket cable dia. 5.7 to 7.3, X position                              |
|        |                 |                             | JN1DS04FK2    | SJ035666       | Waterproof (when mated), solder socket cable dia. 6.5 to 8.0  |
|        |                 |                             | JN1DS04FK2X   | SJ035666       | Waterproof (when mated), solder socket cable dia. 6.5 to 8.0, X position                              |
|        |                 |                             | JN1DS04FKK    | SJ035969       | Waterproof (when mated), solder socket kit type (with two types of rubber bushing)                    |
|        |                 |                             | JN1DS04FKKX   | SJ035969       | Waterproof (when mated), solder socket kit type (with two types of rubber bushing), X position        |
|        |                 |                             | JN1DS04FKB    | SJ037181       | Waterproof (when mated), solder socket, individual wire type  |
|        |                 | 90 Degree Angle Plug        | JN1FS04FK1    | SJ035610       | Waterproof (when mated), solder socket cable dia. 5.7 to 7.3  |
|        |                 |                             | JN1FS04FK1X   | SJ035610       | Waterproof (when mated), solder socket cable dia. 5.7 to 7.3, X position                              |
|        |                 |                             | JN1FS04FK2    | SJ035610       | Waterproof (when mated), solder socket cable dia. 6.5 to 8.0  |
|        |                 |                             | JN1FS04FK2X   | SJ035610       | Waterproof (when mated), solder socket cable dia. 6.5 to 8.0, X position                              |
|        |                 |                             | JN1FS04FKK    | SJ035968       | Waterproof (when mated), solder socket kit type (with two types of rubber bushing)                    |
|        |                 |                             | JN1FS04FKKX   | SJ035968       | Waterproof (when mated), solder socket kit type (with two types of rubber bushing), X position        |
|        |                 | Waterproof Cap              | J025-52209-RK | SJ119896       | JN1, 2 Receptacle (4, 10 pins) for waterproof, IP67   |

| Series | No. of Contacts | Connector Type                | Part Number   | Drawing Number | Performance / Shape   |
|--------|-----------------|-------------------------------|---------------|----------------|---|
| JN1    | 10              | Rectangular Flange Receptacle | JN1AS10UL1    | SJ034676       | Waterproof (when mated), through-hole pin   |
|        |                 | Square Flange Receptacle      | JN1AS10ML1-R  | SJ105743       | Waterproof (when mated), solder pin   |
|        |                 |                               | JN1AS10ML2-R  | SJ105745       | Individually waterproofed, solder pin   |
|        |                 | Cable Connecting Receptacle   | JN1HS10PL1    | SJ037293       | Waterproof (when mated), crimp pin (sold separately), cable dia. 5.7 to 7.3                               |
|        |                 |                               | JN1HS10PL2    | SJ037293       | Waterproof (when mated), crimp pin (sold separately), cable dia. 6.5 to 8.0                               |
|        |                 |                               | JN1HS10PL3    | SJ037293       | Waterproof (when mated), crimp pin (sold separately), cable dia. 3.5 to 5.0                               |
|        |                 |                               | JN1HS10PL3S   | SJ105842       | Waterproof (when mated), crimp pin (sold separately), cable dia. 3.5 to 5.0, outer diameter: 20 dia. max. |
|        |                 |                               | JN1HS10PL4S   | SJ105842       | Waterproof (when mated), crimp pin (sold separately), cable dia. 4.7 to 5.7, outer diameter: 20 dia. max. |
|        |                 |                               | JN1HS10PLKS1  | SJ107656       | Waterproof (when mated), crimp pin cable dia. 5.7 to 7.3, kit type (with rubber bushing and 10 contacts)  |
|        |                 |                               | JN1HS10PLKS2  | SJ107656       | Waterproof (when mated), crimp pin cable dia. 6.5 to 8.0, kit type (with rubber bushing and 10 contacts)  |
|        |                 |                               | JN1HS10PLKS3  | SJ107656       | Waterproof (when mated), crimp pin cable dia. 3.5 to 5.0, kit type (with rubber bushing and 10 contacts)  |
|        |                 | Wall Mount Receptacle         | JN1KS10PL1    | SJ037294       | Waterproof (when mated), crimp pin (sold separately), cable dia. 5.7 to 7.3                               |
|        |                 |                               | JN1KS10PL2    | SJ037294       | Waterproof (when mated), crimp pin (sold separately), cable dia. 6.5 to 8.0                               |
|        |                 | Individual Plug               | JN1ES10SL1    | SJ034677       | Non-waterproof, crimp socket, individual block  |
|        |                 | Straight Plug                 | JN1DS10SL1    | SJ034679       | Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 5.7 to 7.3                   |
|        |                 |                               | JN1DS10SL2    | SJ034679       | Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 6.5 to 8.0                   |
|        |                 |                               | JN1DS10SL3    | SJ034679       | Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 3.5 to 5.0                   |
|        |                 |                               | JN1DS10SLK    | SJ035967       | Waterproof (when mated), crimp socket, kit type (with 10 contacts and two types of rubber bushing)        |
|        |                 | 90 Degree Angle Plug          | JN1FS10SL1    | SJ034678       | Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 5.7 to 7.3                   |
|        |                 |                               | JN1FS10SL2    | SJ034678       | Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 6.5 to 8.0                   |
|        |                 |                               | JN1FS10SLK    | SJ034966       | Waterproof (when mated), crimp socket, kit type (with 10 contacts and two types of rubber bushing)        |
|        |                 | Waterproof Cap                | J025-52209-RK | SJ119896       | JN1, 2 Receptacle (4, 10 pins) for waterproof, IP67   |

| Series     | No. of Contacts | Contact Type   | Contact Termination | Packaging              | Part Number         | Drawing Number | Performance / Shape                                       |
|------------|-----------------|----------------|---------------------|------------------------|---------------------|----------------|---|
| JN1<br>JN2 | 10              | Socket Contact | Crimp               | In pieces (100pcs.)    | JN1-22-20S-R-PKG100 | SJ035503       | 20-21AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-22S-PKG100   | SJ035503       | 21-25AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-26S-PKG100   | SJ035503       | 26-28AWG<br>Outer Dia. 1.1 max.                           |
|            |                 |                |                     | In reels (10,000 pcs.) | JN1-22-20S-R-10000  | SJ035504       | 20-21AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-22S-10000    | SJ035504       | 21-25AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-26S-10000    | SJ035504       | 26-28AWG<br>Outer Dia. 1.1 max.                           |
|            |                 |                | Solder              | In pieces              | JN1-22-22F-PKG100   | SJ109855       | In pieces(100pcs.),<br>AWG#20 max.<br>Outer Dia. 1.5 max. |
|            |                 |                |                     |                        | JN1-22-22F-PKG10    | SJ109855       | In pieces(10pcs.),<br>20AWG max.<br>Outer Dia. 1.5 max.   |
|            |                 | Pin Contact    | Crimp               | In pieces (100pcs.)    | JN1-22-20P-R-PKG100 | SJ037430       | 20-21AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-22P-PKG100   | SJ037430       | 21-25AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-26P-PKG100   | SJ037430       | 26-28AWG<br>Outer Dia. 1.1 max.                           |
|            |                 |                |                     | In reels (10,000 pcs.) | JN1-22-20P-R-10000  | SJ037431       | 20-21AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-22P-10000    | SJ037431       | 21-25AWG<br>Outer Dia. 1.5 max.                           |
|            |                 |                |                     |                        | JN1-22-26P-10000    | SJ037431       | 26-28AWG<br>Outer Dia. 1.1 max.                           |

\* JN2 and JN1 utilizes common contact.

\* Contact extraction tool (Part Number: ET-JN1) is available.

Please refer to the connector handling instructions concerning contact extraction.

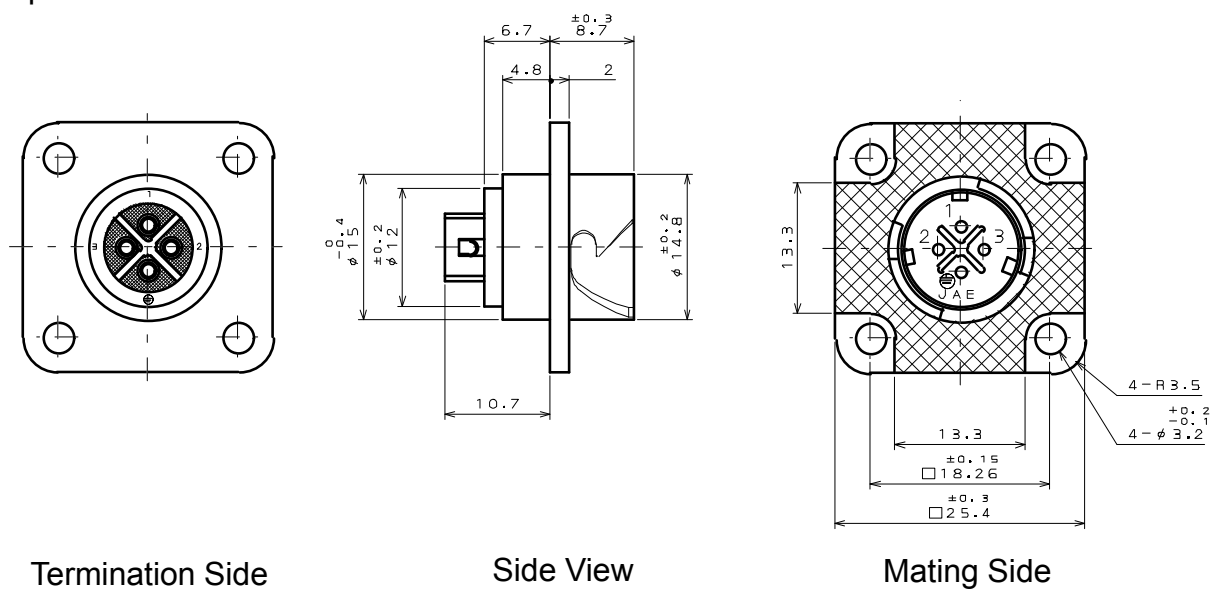
## ■ Part Number List

| Series | No. of<br>Con<br>tacts | Connector<br>Type              | Part Number   | Drawing<br>Number                                   | Performance / Shape   |
|--------|------------------------|--------------------------------|---------------|---|---|
| JN2    | 4                      | Square<br>Flange<br>Receptacle | JN2AS04MK2-R  | SJ105530  | Individually waterproofed, solder pin, body earth structure                                     |
|        |                        |                                | JN2AS04MK2X-R | SJ105530  | Individually waterproofed, solder pin, body earth structure, X position                         |
|        |                        | Straight<br>Plug               | JN2DS04FK1-R  | SJ105532  | Waterproof (when mated), solder socket, cable dia. 5.7 to 7.3                                   |
|        |                        |                                | JN2DS04FK1X-R | SJ105532  | Waterproof (when mated), solder socket, cable dia. 5.7 to 7.3, X position                       |
|        |                        |                                | JN2DS04FK2-R  | SJ105532  | Waterproof (when mated), solder socket, cable dia. 6.5 to 8.0                                   |
|        |                        |                                | JN2DS04FK2X-R | SJ105532  | Waterproof (when mated), solder socket, cable dia. 6.5 to 8.0, X position                       |
|        |                        |                                | JN2DS04FKK-R  | SJ105536  | Waterproof (when mated), solder socket, kit type (with two types of rubber bushing)             |
|        |                        |                                | JN2DS04FKKX-R | SJ105536  | Waterproof (when mated), solder socket, kit type (with two types of rubber bushing), X position |
|        |                        |                                | Angle Plug    | JN2FS04FK1X-R                                       | SJ105531  |
|        |                        | JN2FS04FK1X-R                  |               | SJ105531  | Waterproof (when mated), solder socket, cable dia. 5.7 to 7.3, X position                       |
|        |                        | JN2FS04FK2-R                   |               | SJ105531  | Waterproof (when mated), solder socket, cable dia. 6.5 to 8.0                                   |
|        |                        | JN2FS04FK2X-R                  |               | SJ105531  | Waterproof (when mated), solder socket, cable dia. 6.5 to 8.0, X position                       |
|        |                        | JN2FS04FKK-R                   |               | SJ105535  | Waterproof (when mated), solder socket, kit type (with two types of rubber bushing)             |
|        |                        | JN2FS04FKKX-R                  |               | SJ105535  | Waterproof (when mated), solder socket, kit type (with two types of rubber bushing), X position |
|        | Waterproof Cap         | J025-52209-RK                  | SJ119896      | JN1, 2 Receptacle (4, 10 pins) for waterproof, IP67 |   |

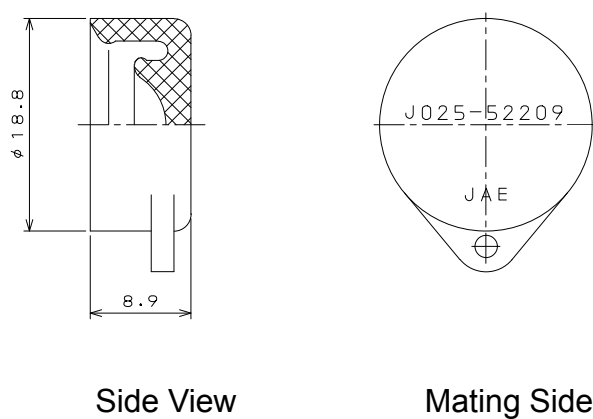
| Series | No. of Contacts | Connector Type                | Part Number   | Drawing Number | Performance / Shape  |
|--------|-----------------|-------------------------------|---------------|----------------|--|
| JN2    | 10              | Square Flange Receptacle      | JN2AS10ML1-R  | SJ105537       | Waterproof (when mated), solder pin  |
|        |                 |                               | JN2AS10ML2-R  | SJ105538       | Individually waterproofed, solder pin  |
|        |                 | Panel Mount Plug              | JN2MS10SL1-R  | SJ105544       | Waterproof (when mated), crimp or solder socket (sold separately)                                  |
|        |                 |                               | JN2MS10SLK-R  | SJ105996       | Waterproof (when mated), crimp socket kit type (with 10 contacts)                                  |
|        |                 | Rectangular Flange Receptacle | JN2AS10UL1-R  | SJ105527       | Waterproof (when mated), through-hole pin  |
|        |                 | Straight Plug                 | JN2DS10SL1-R  | SJ105529       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 5.7 to 7.3           |
|        |                 |                               | JN2DS10SL2-R  | SJ105529       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 6.5 to 8.0           |
|        |                 |                               | JN2DS10SL3-R  | SJ105529       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 3.5 to 5.0           |
|        |                 |                               | JN2DS10SLN-R  | SJ105529       | Waterproof (when mated), crimp or solder socket (sold separately), without bushing Note*           |
|        |                 |                               | JN2DS10SLK-R  | SJ105534       | Waterproof (when mated), crimp socket, kit type (with 10 contacts and two types of rubber bushing) |
|        |                 | Angle Plug                    | JN2FS10SL1-R  | SJ105528       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 5.7 to 7.3           |
|        |                 |                               | JN2FS10SL2-R  | SJ105528       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 6.5 to 8.0           |
|        |                 |                               | JN2FS10SL3-R  | SJ105528       | Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 3.5 to 5.0           |
|        |                 |                               | JN2FS10SLN-R  | SJ105528       | Waterproof (when mated), crimp or solder socket (sold separately), without bushing                 |
|        |                 |                               | JN2FS10SLK-R  | SJ105533       | Waterproof (when mated), crimp socket, kit type (with 10 contacts and two types of rubber bushing) |
|        |                 | Waterproof Cap                | J025-52209-RK | SJ119896       | JN1, 2 Receptacle (4, 10 pins.) for waterproof, IP67   |

\* Please contact us when considering size of bushing to use.

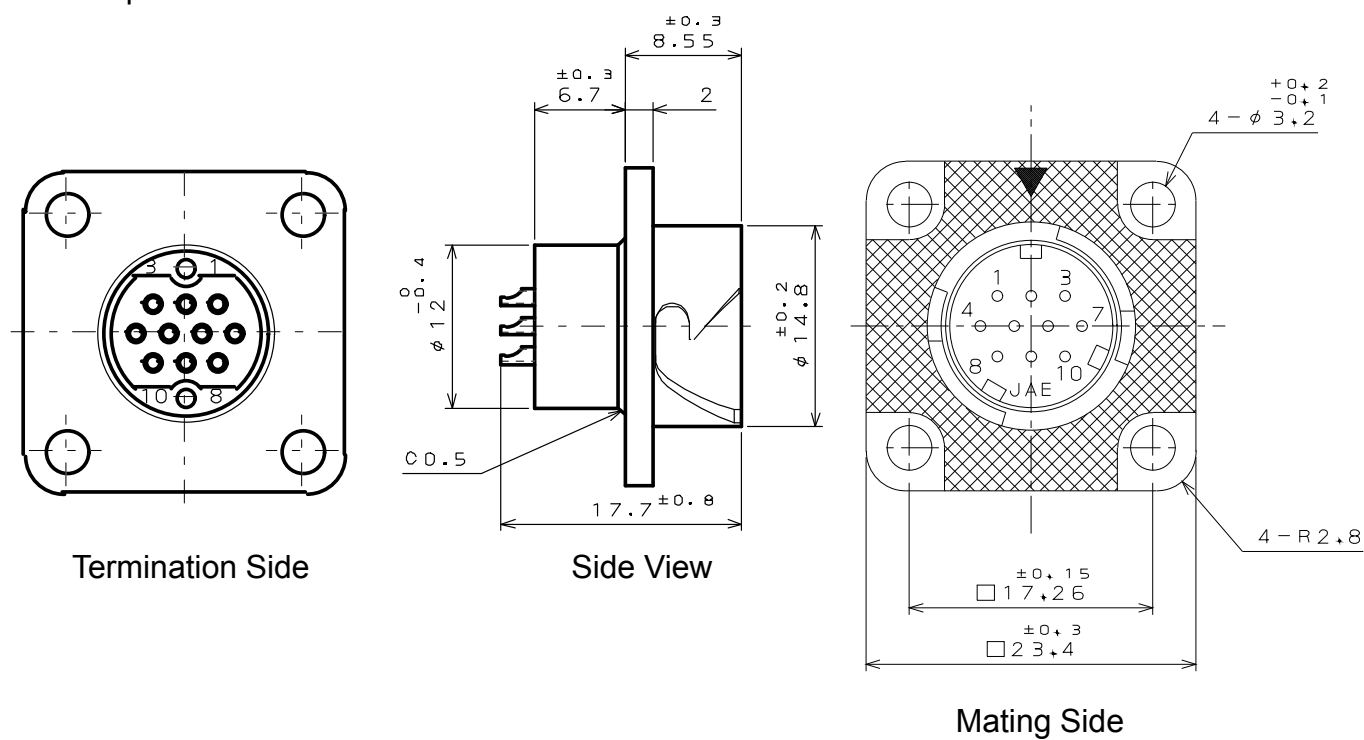
# ■ Receptacle JN1AS04MK1\*



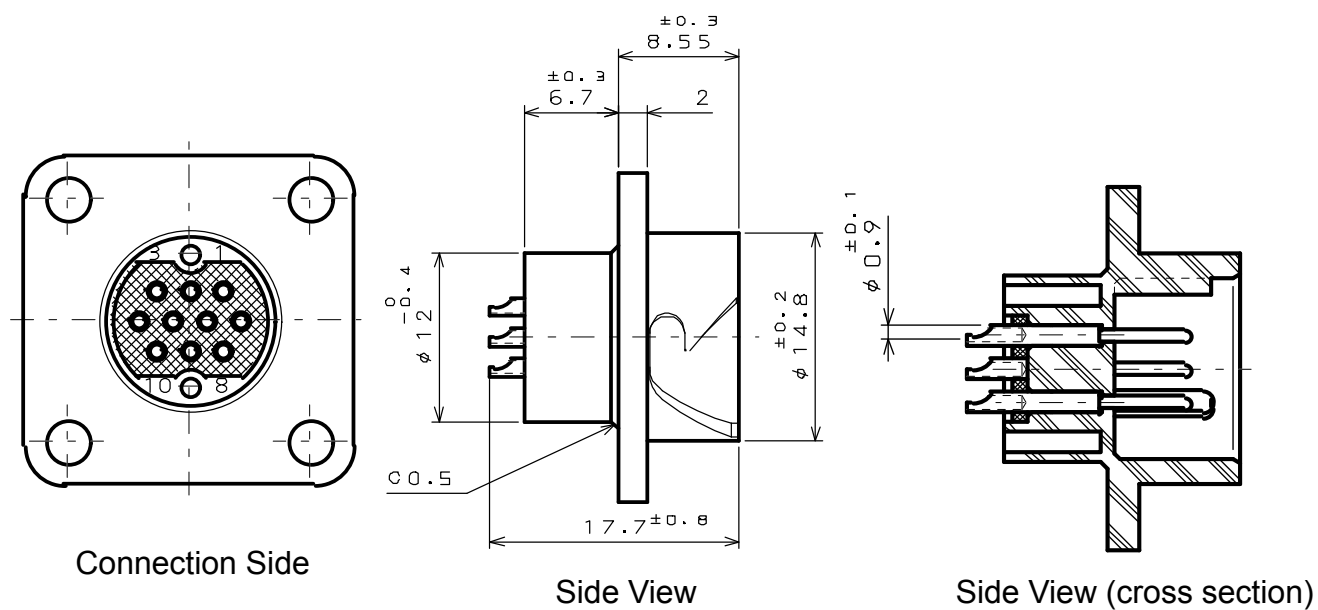
# ■ Waterproof Cap J025-52209



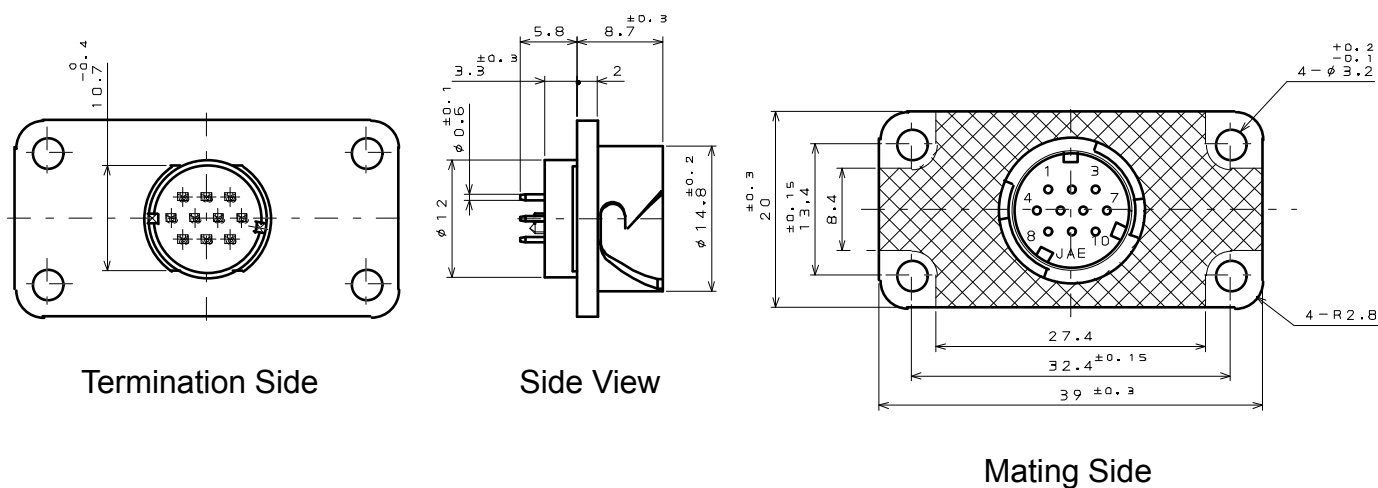
■ Receptacle JN1AS10ML1-R



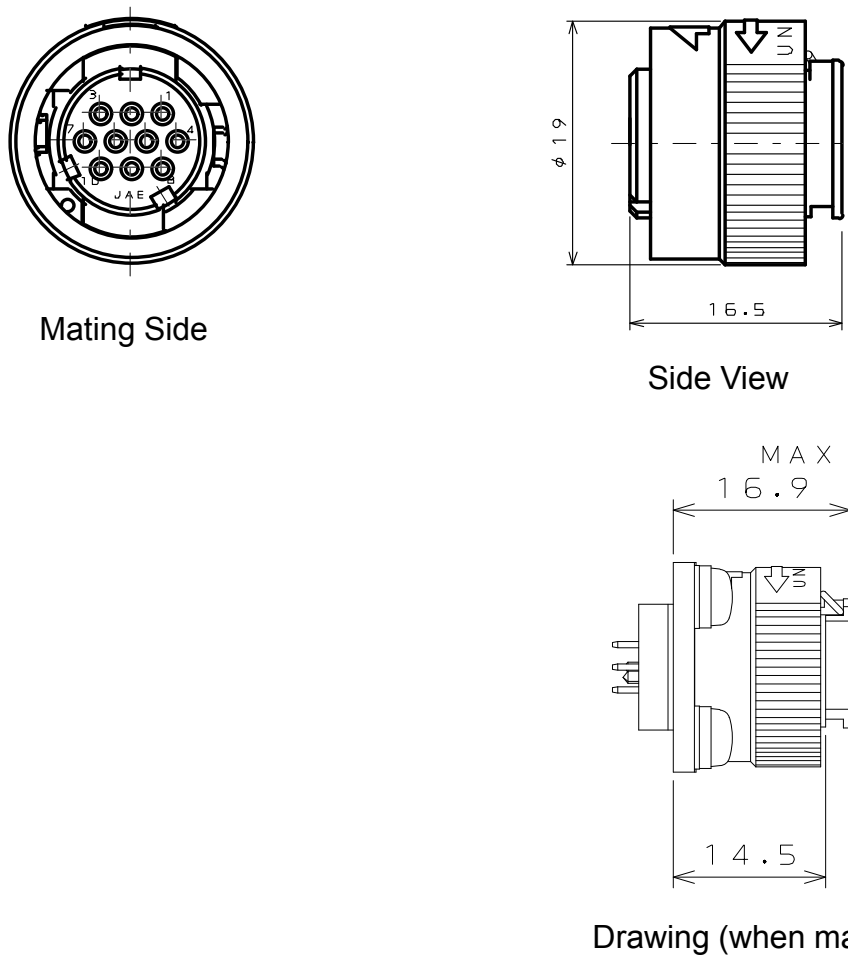
■ Receptacle JN1AS10ML2-R



# ■ Receptacle JN1AS10UL1

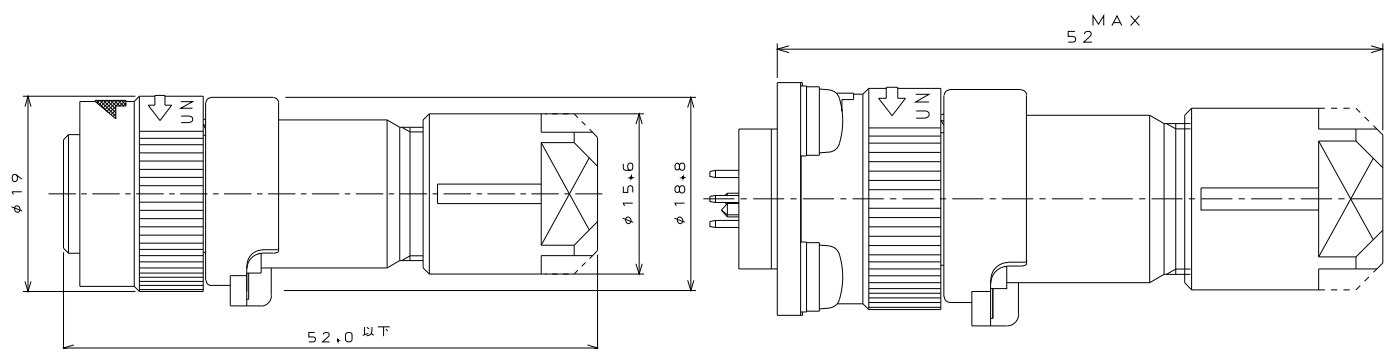


# ■ Individual Plug JN1ES10SL1



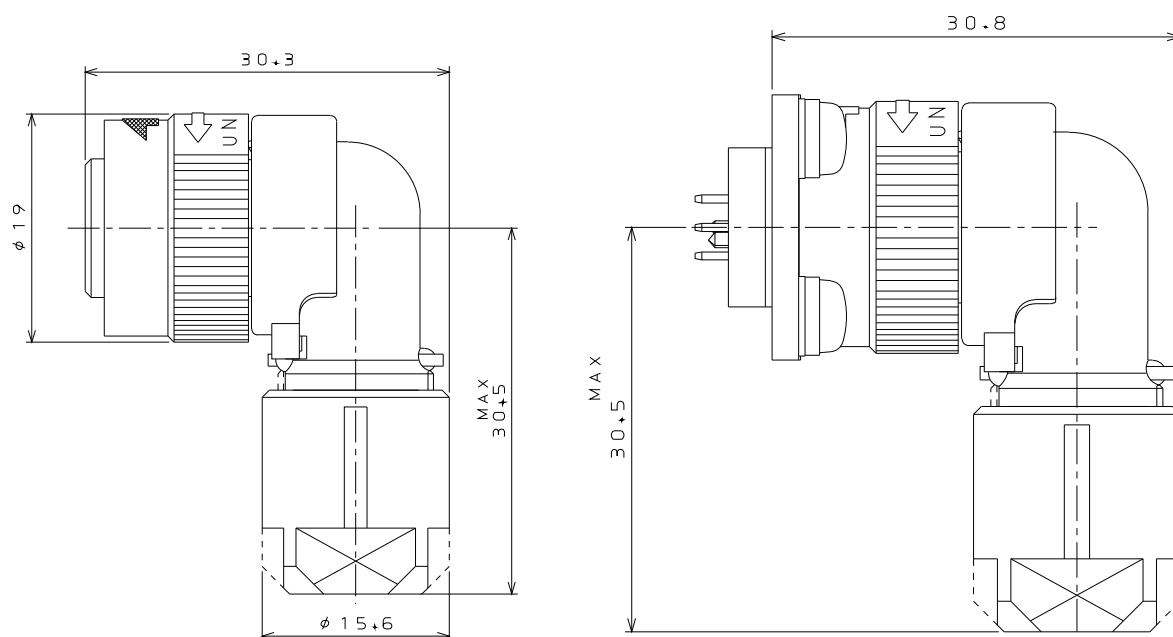


■ Straight Plug JN1DS10SL\*  
JN1DS04FK\*\*



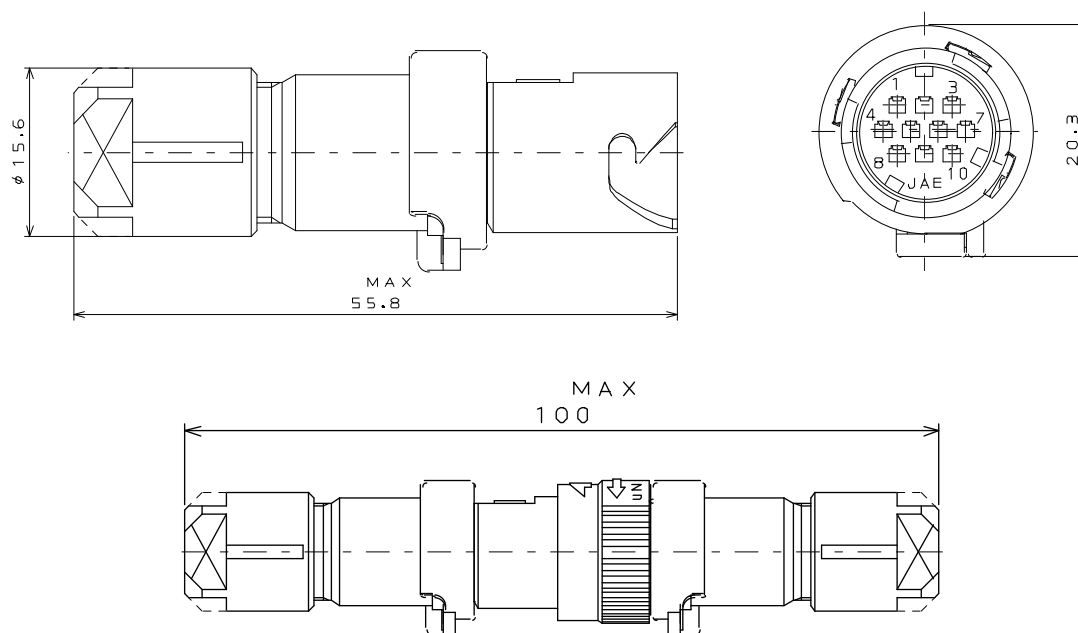
Drawing (when mated)

■ Angle Plug JN1FS10SL\*  
JN1FS04FK\*\*



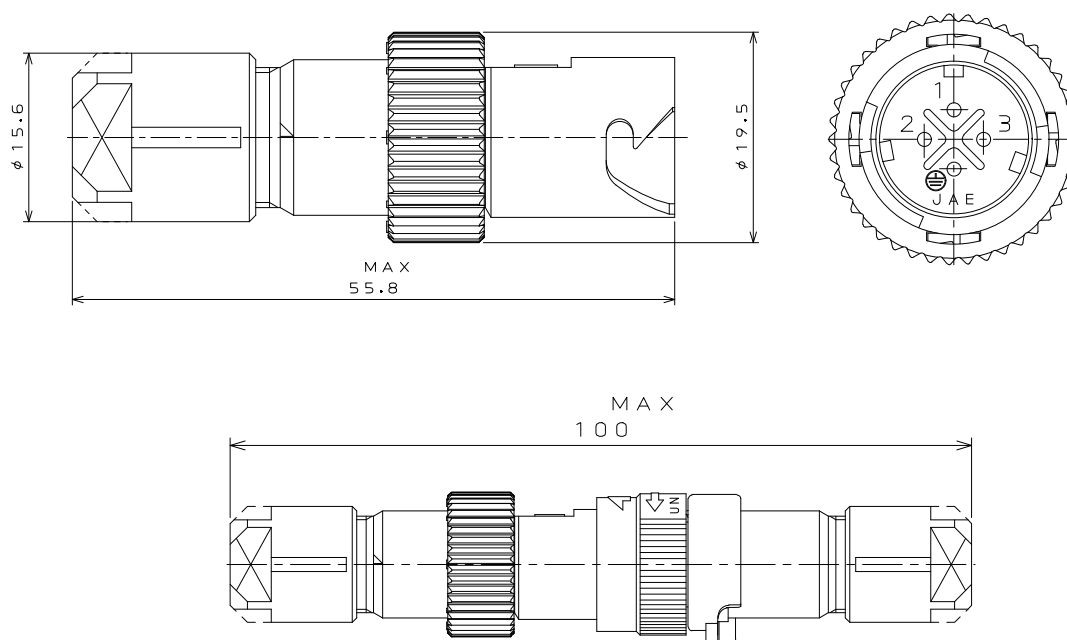
Drawing (when mated)

■ Cable Connecting Receptacle JN1HS04MK\*-R  
JN1HS10PL\*



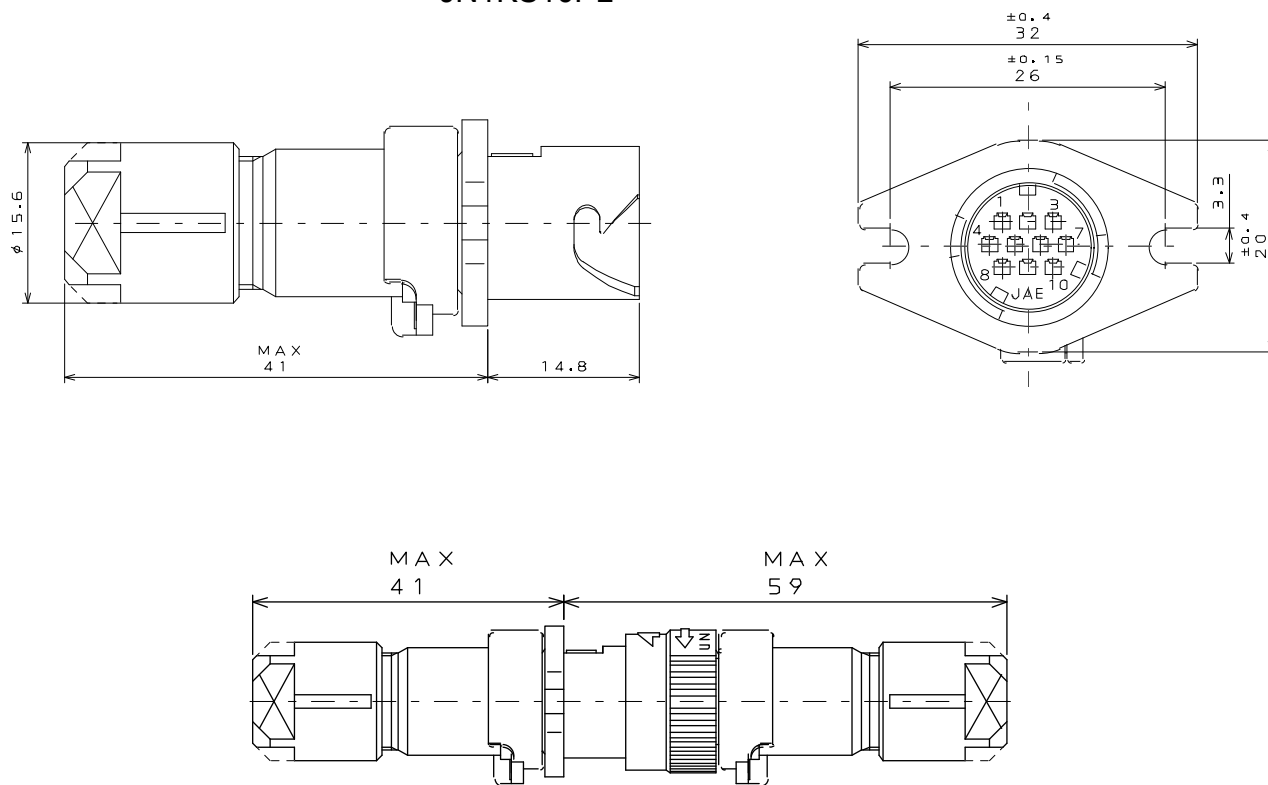
Drawing (when mated)

■ Cable Connecting Receptacle JN1HS04MK\*S  
(Slim Outer Diameter Type) JN1HS10PL\*S



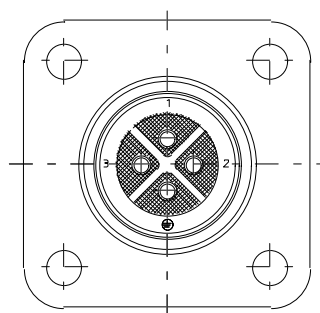
Drawing (when mated)

■ Wall Mounting Receptacle JN1KS04MK\*-R  
JN1KS10PL\*

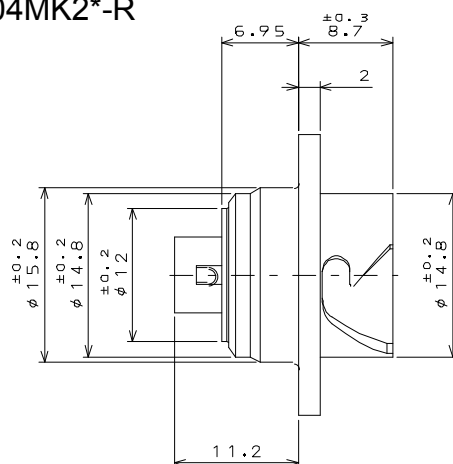


Drawing (when mated)

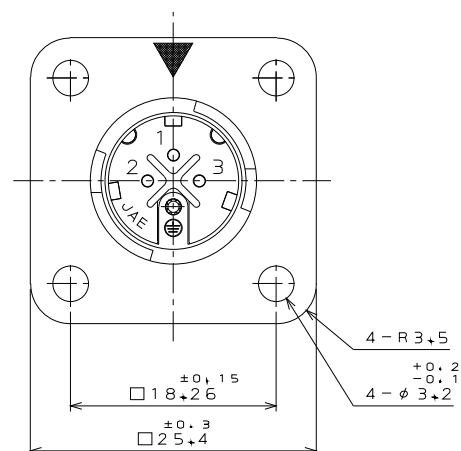
### ■ Receptacle JN2AS04MK2\*-R



Termination Side

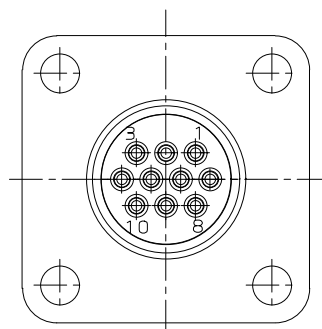


Side View

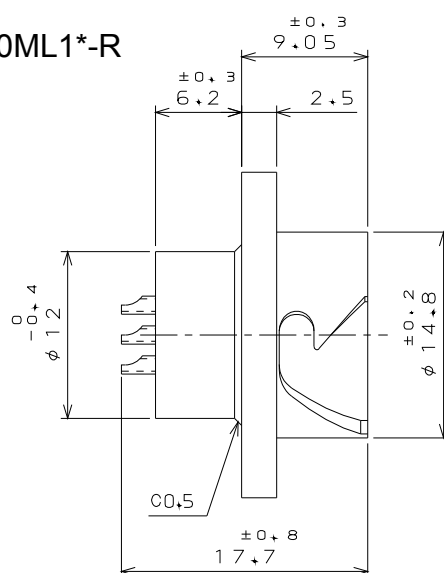


Mating Side

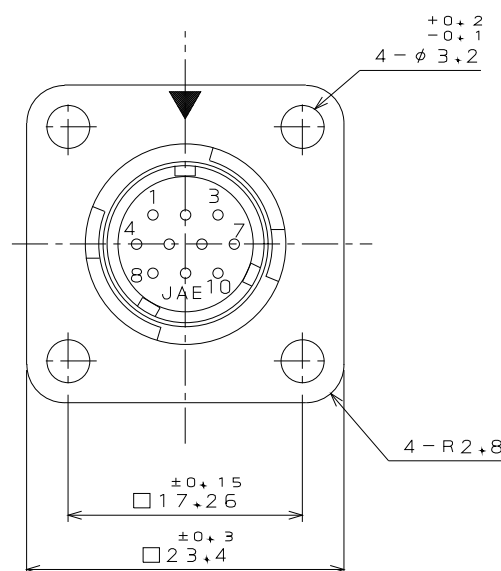
### ■ Receptacle JN2AS10ML1\*-R



Termination Side

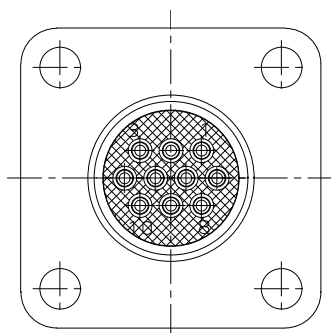


Side View

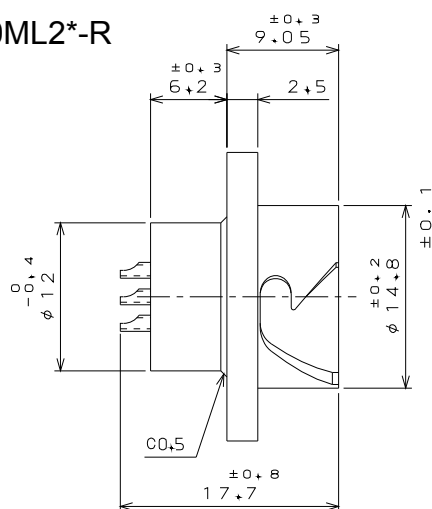


Mating Side

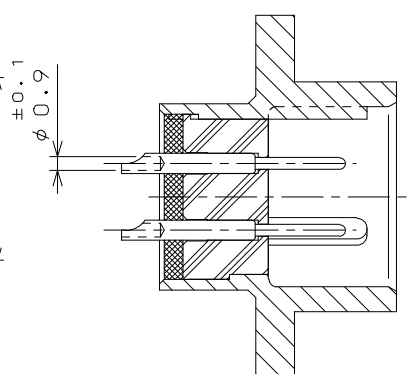
### ■ Receptacle JN2AS10ML2\*-R



Termination Side

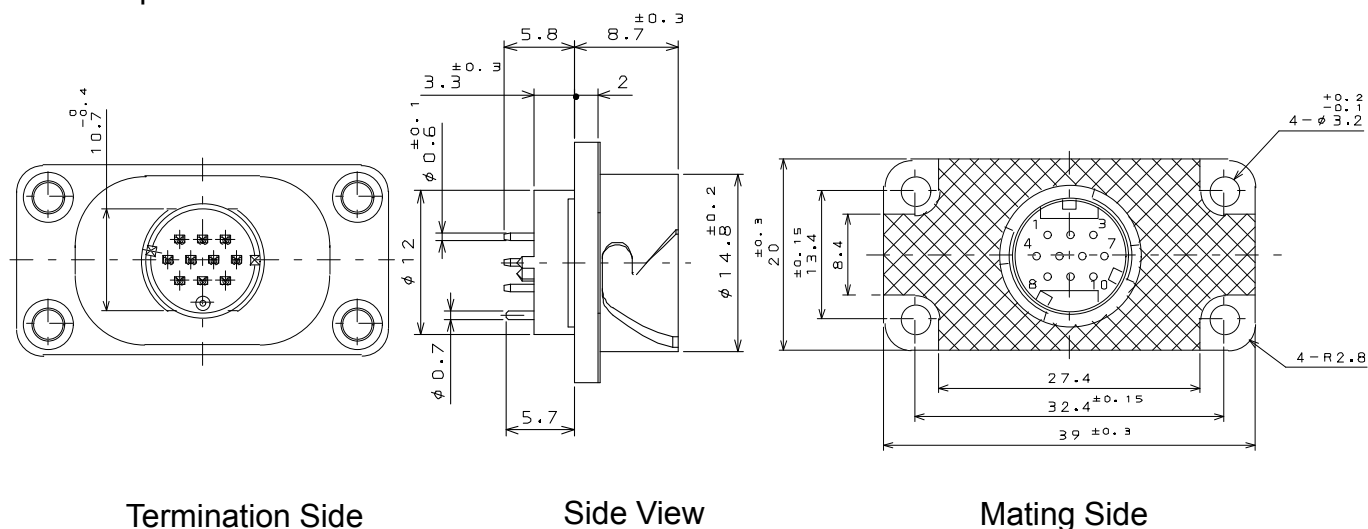


Side View

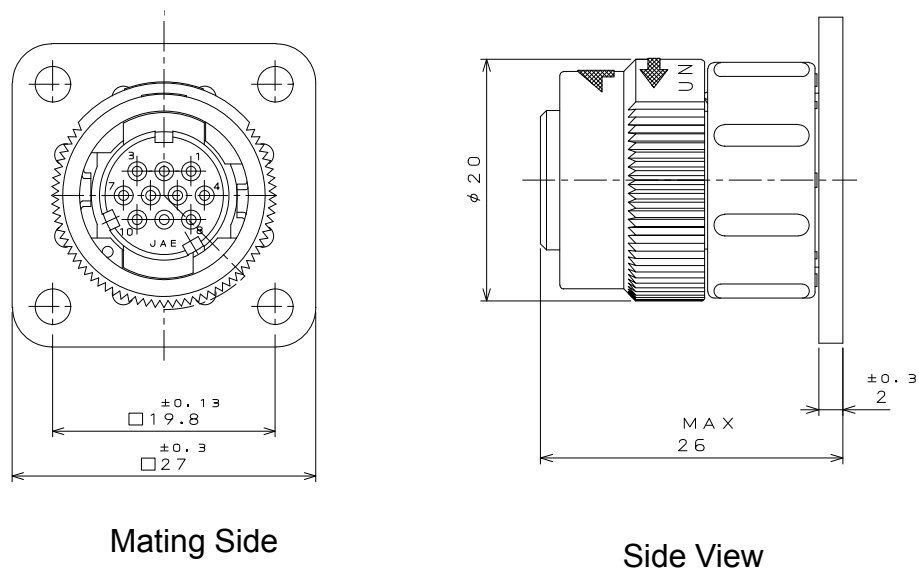


Side View (cross section)

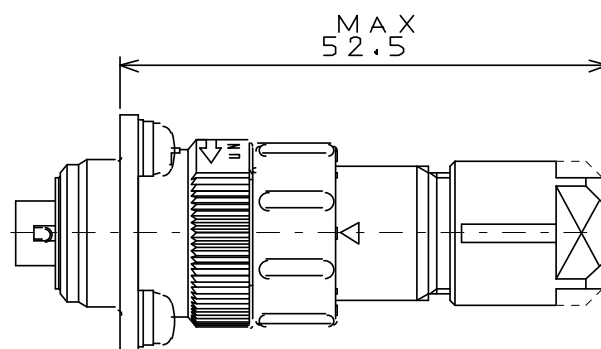
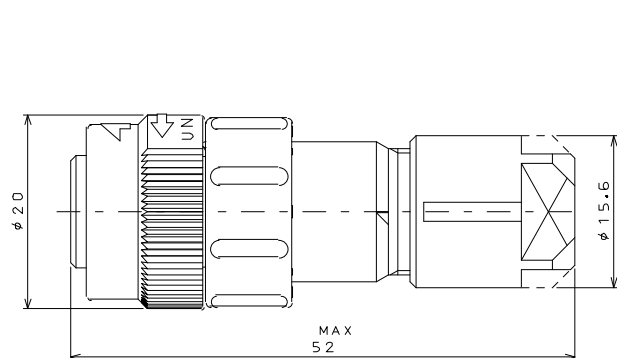
# ■ Receptacle JN2AS10UL1-R



# ■ Panel Mount Plug JN2MS10SL\*-R

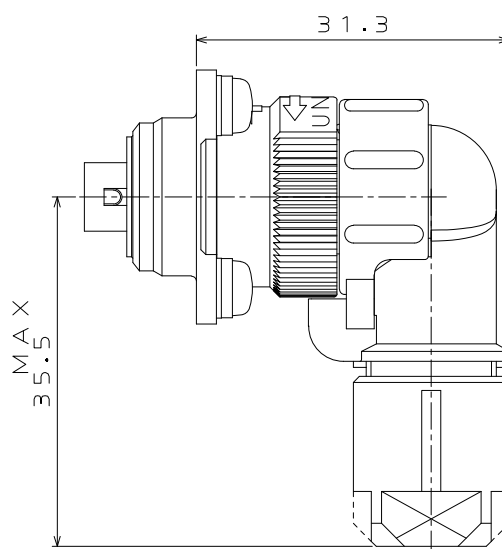
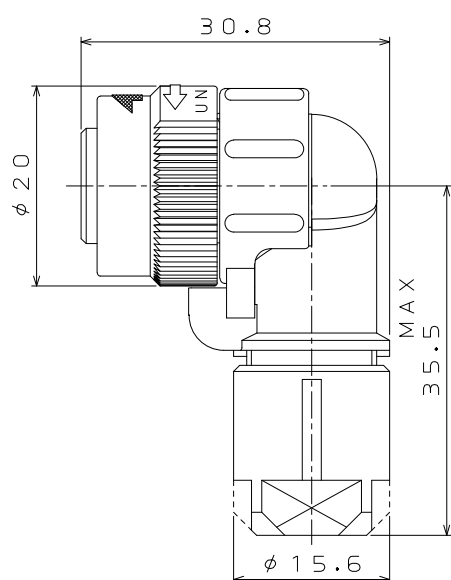


■ Straight Plug JN2DS04FK\*\*-R  
JN2DS10SL\*-R



Drawing (when mated)

■ Angle Plug JN2FS04FK\*\*-R  
JN2FS10SL\*-R



Drawing (when mated)

## Crimp Contact Part Number and Applicable Wires and Tooling

| Type of Tool                                    | Instruction Manual for Tooling | Applicable Tooling                  | Applicable Wire | Outer Diameter  | Part Number of Applicable Contact (Note 1)                 |
|---|--------------------------------|-------------------------------------|-----------------|-----------------|--|
| Hand crimp<br>(for contacts in pieces)          | T700253                        | CT150-2-JN1-D                       | 20, 21AWG       | Dia. 1.3 to 1.5 | JN1-22-20*-R-PKG100  |
|   |                                |                                     | 25AWG           | Dia. 0.8 to 1.0 | JN1-22-22*-PKG100  |
|   |                                | CT150-2-JN1-E                       | 21, 23AWG       | Dia. 1.0 to 1.5 | JN1-22-22*-PKG100  |
|   |                                |                                     | 25AWG           | Dia. 0.8 to 1.0 |  |
|   | T700238                        | CT150-2-JN1-B                       | 22, 24AWG       | Dia. 1.0 to 1.3 | JN1-22-22*-PKG100  |
|   |                                |                                     | 26, 28AWG       | Dia. 0.8 to 1.0 | JN1-22-26*-PKG100  |
| Semi-Automatic crimp<br>(for contacts in reels) | T703294                        | 350-JN1-2C<br>(Old model)<br>Note 3 | 20 to 28AWG     | Dia. 0.8 to 1.5 | JN1-22-20*-R-10000<br>JN1-22-22*-10000<br>JN1-22-26*-10000 |
|   | T703413                        | 3502-JN1-2C<br>(New model)          |                 |                 |  |

Note 1: The \* in the part number will stand for P: Pin contact, S: Socket contact.

Note 2: Contact extraction tool (Part Number: ET-JN1) is available.

Please refer to the connector handling instructions concerning removal.

Note 3: Please contact us concerning connection tool, contact removal tool and the RoHS compliance of tools for the JN1 and 2 series.

Note 4: Part number for new model is 3502-JN1-2C.

Please note that production of the old model was end of life in March 2009.

#### ■ Suggested Conduit

|                   | Model                   |
|-------------------|-------------------------|
| Neoflex           | RQJN-M13-9, RQJN-M13-16 |
| Daiwa Dengyo      | PCJN-12-M13F            |
| Sankei Seisakusho | N2KY16-FN3              |

Please consult with conduit manufacturer regarding use of each conduit.

**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 :

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



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[JN1DS04FK1](#) [JN1AS10UL1](#) [JN2AS10UL1-R](#) [JN2DS04FK1-R](#) [JN2DS10SL1-R](#) [JN2FS10SL1-R](#) [JN2FS10SL2-R](#)  
[JN2FS10SLK-R](#) [JN2AW05FH1](#) [JN2DW05MH1](#) [JN2FW05MH1](#) [JN2KW05FH1](#) [JN1HS04MK2-R](#) [JN1KW15PL1](#)  
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#### Как с нами связаться

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**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

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