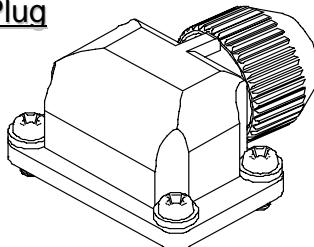
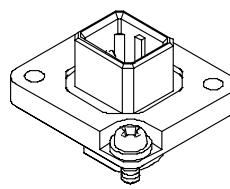
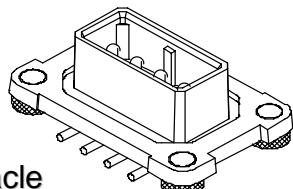
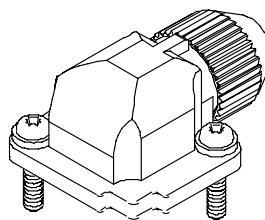




Small Waterproof Connector

JN4 Series

CONNECTOR
MB-0157-1
August 2006

4 contact Angle Plug2 contact Angle Plug4 contact Receptacle2 contact Receptacle

Small waterproof connector developed as an interface for small motors for industrial devices .

Features

- All plastic lightweight connector
- Plug allover length 27mm, plug height is low profile 13.7mm (4pos.)
- Oil resistant, superb environmental proof performance
- Waterproof and dustproof that conform to IP67 class (when mated)
- Receptacle mounting arrangement
 - 4pos. : fixed to case by mold in method
 - 2pos. : fixed to case with screw by 2 points
- Cable pulling out direction of plug can be selected from two directions(180 degrees)
- Cable pullout slot for 4pos. plug is in lean of 7 degrees.
- Plug is selectable from the cabtire or individual cable type.

General Specifications

| | Item | Specification and Performance | |
|---|----------------------------------|---|--|
| | | for power (4pos.) | for brake (2 pos.) |
| 1 | Rated current | 7A max. (per 1pos.) | 5A max. (per 1pos.) |
| 2 | Rated voltage | 200VAC (pollution degree 2, over voltage category II) | 200VAC |
| 3 | Withstanding voltage | 1500VAC | 1500VAC |
| 4 | Insulation resistance | 1000M ohm min. (DC500V energized) | 1000M ohm min. (DC500V energized) |
| 5 | Waterproof | IP67 (when mated) | IP67 (when mated) |
| 6 | Operating temperature | -20 Deg. C to +130 Deg.C | -20 Deg. C to +130 Deg.C |
| 7 | Specification of wire connection | Receptacle: Angle trough-hole Plug: Crimp connection (AWG20 to 18) | Receptacle: Crimp connection (AWG22 to 20) Plug: Crimp connection (AWG22 to 20) |

Materials and Finishes

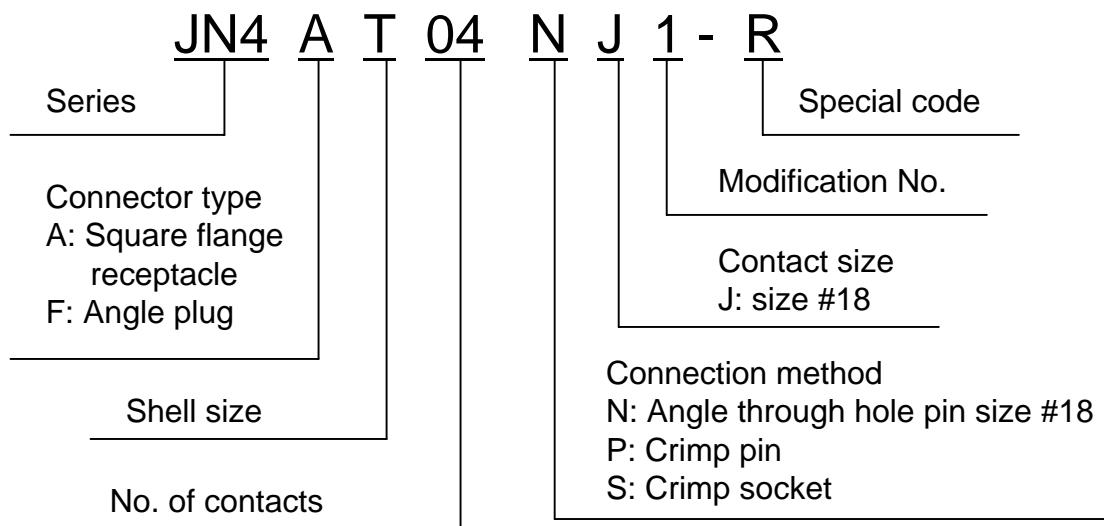
1) Receptacle

| Components | Materials and Finishes |
|---------------|--------------------------|
| Pin contact | Copper alloy, Au plating |
| Pin Insulator | Synthetic resin |
| Insert nut | Copper alloy |
| “O” ring | Synthetic rubber |

2) Plug

| Components | Materials and Finishes |
|------------------|------------------------|
| Socket contact | Copper alloy |
| Socket insulator | Synthetic resin |
| Hood | Synthetic resin |
| Grand nut | Synthetic resin |
| Gasket | Synthetic rubber |
| Bushing | Synthetic rubber |
| Plate | Stainless steel |
| Screw | Steel |

Ordering Information



Connector

| | Part Number | SJ Drawing | Characteristics | Connection method |
|---|--------------|------------|---|---------------------------------|
| 1 | JN4AT04NJ1-R | SJ106322 | 4pos./ Square flange receptacle | Angle through-hole(pin contact) |
| 2 | JN4FT04SJ1-R | SJ105539 | 4pos./ Angle plug (compatible to cabtire cable) | Crimp (Socket contact) |
| 3 | JN4FT04SJ2-R | SJ105542 | 4pos./ Angle plug (compatible to individual cable) | Crimp (Socket contact) |
| 4 | JN4AT02PJ1-R | SJ105540 | 2pos./ Square flange receptacle | Crimp (Pin contact) |
| 5 | JN4FT02SJ1-R | SJ105541 | 2pos./ Angle plug (compatible to cabtire cable) | Crimp (Socket contact) |
| 6 | JN4FT02SJ2-R | SJ105543 | 2pos./ Angle plug (compatible to individual cable) | Crimp (Socket contact) |

Crimp contact

| Applicable connector | Type | Category | Part Number | SJ Drawing |
|----------------------|----------------|----------------------|---------------------------|------------|
| JN4FT04SJ* | Socket contact | Individual (100pcs.) | ST-TMH-S-C1B-100-(A534G) | SJ038822 |
| JN4FT02SJ* | | Reel (3500pcs.) | ST-TMH-S-C1B-3500-(A534G) | SJ038821 |
| JN4AT02PJ1 | Pin contact | Individual (100pcs.) | ST-JN4-P-C1-100-(A534G) | SJ038859 |
| | | Reel (3500pcs.) | ST-JN4-P-C1-3500-(A534G) | SJ038858 |

Crimping tools

| Applicable contact Part No. | Tool | Tool category | Tool handling Instruction |
|-----------------------------|---------------|--|---------------------------|
| ST-TMH-S-C1B-100-(A534G) | CT160-3-TMH5B | Hand crimp (for individual contact) | T700255 |
| ST-TMH-S-C1B-3500-(A534G) | 350-TMH5B-2B | Semi-automatic crimp (for reel contact) | T703322 |
| ST-JN4-P-C1-100-(A534G) | CT160-3-JN4 | Hand crimp (for individual contact) | T700264 |
| ST-JN4-P-C1-3500-(A534G) | 350-TMH5-2 | Semi-automatic crimp (for reel contact) | T703273 |

** For RoHS compliance information concerning connection and removal tools which appear in this brochure, please consult us.

Applicable Cables

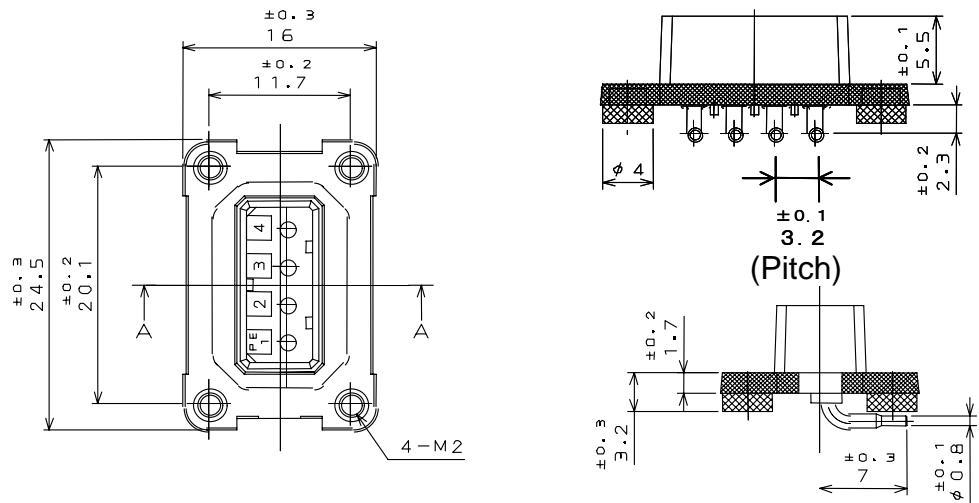
| No. | Part No. | Applicable cable | | | Remarks |
|-----|--------------|------------------|-------------------|------------------|-------------------|
| | | AWG No. | Coated outer dia. | Cable outer dia. | |
| 1 | JN4AT04NJ1-R | --- | --- | --- | Attached to board |
| 2 | JN4FT04SJ1-R | #20 to #18 | 1.3 to 1.8 dia. | 5.3 to 6.5 dia. | Cabtire cable |
| 3 | JN4FT04SJ2-R | #20 to #18 | 1.3 to 1.8 dia | --- | Individual cable |
| 4 | JN4AT02PJ1-R | #22 to #20 | 2.4 dia. max. | --- | Individual cable |
| 5 | JN4FT02SJ1-R | #22 to #20 | 1.3 to 1.4 dia | 3.6 to 4.8 dia. | Cabtire cable |
| 6 | JN4FT02SJ2-R | #22 to #20 | 1.3 to 1.4 dia | --- | Individual cable |

* Applicable cables are indicated in the Handling Instruction.
Adjustment will be needed for other cables.

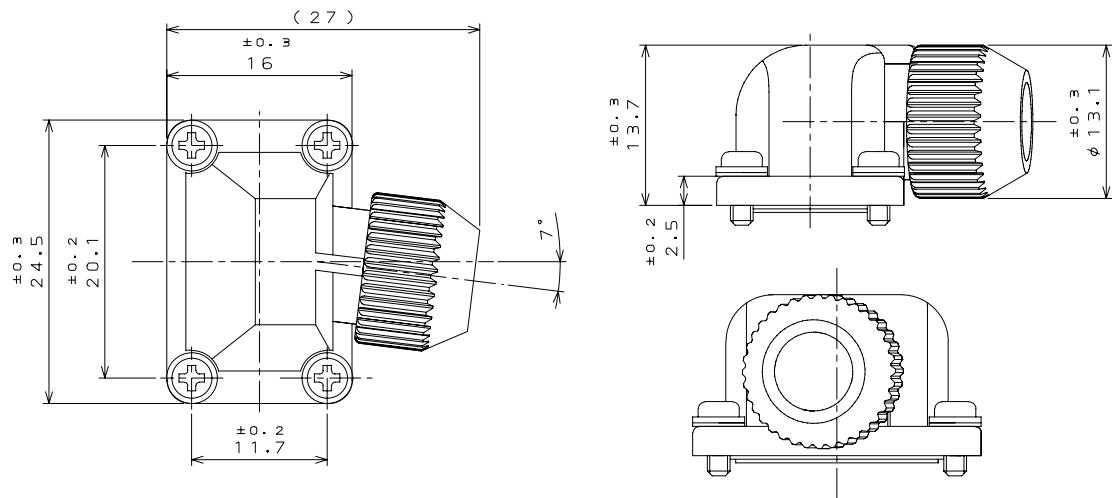
Related Information

| | Title | Document Number | Remarks |
|-------------------------|------------------------------------|-----------------|---------|
| 1. Specification | JN4 Connector Specification | JACS-5122 | --- |
| 2. Handling Instruction | JN4 Connector Handling Instruction | JAHL- 5122 | --- |

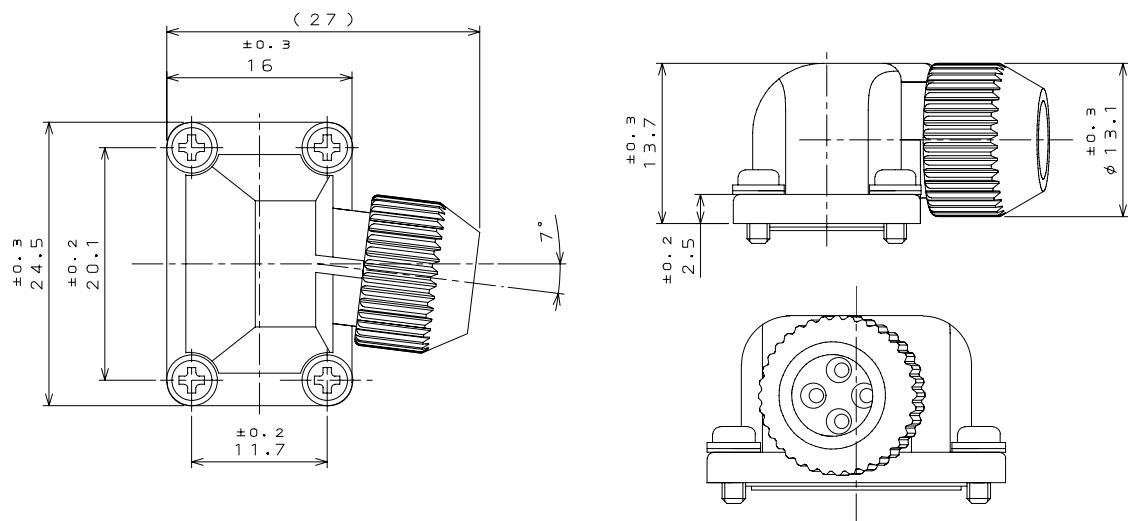
■ 4 contact type Receptacle (JN4AT04NJ1-R)



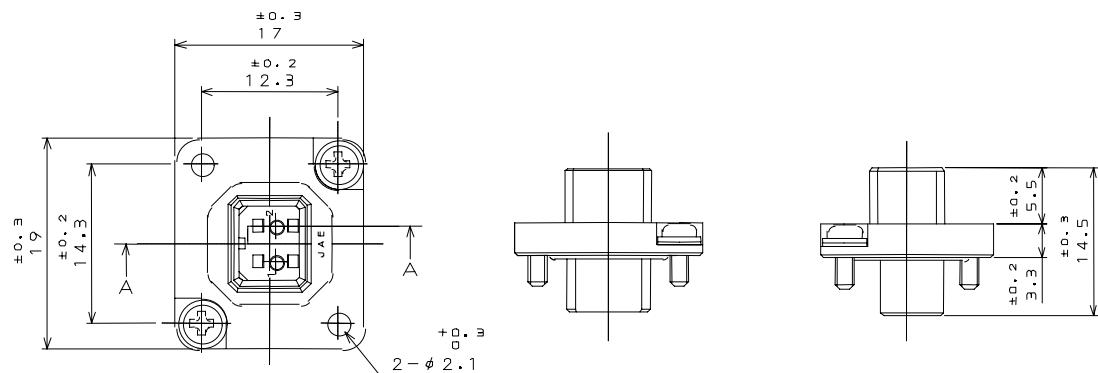
■ 4 contact type Plug for cabtire (JN4FT04SJ1-R)



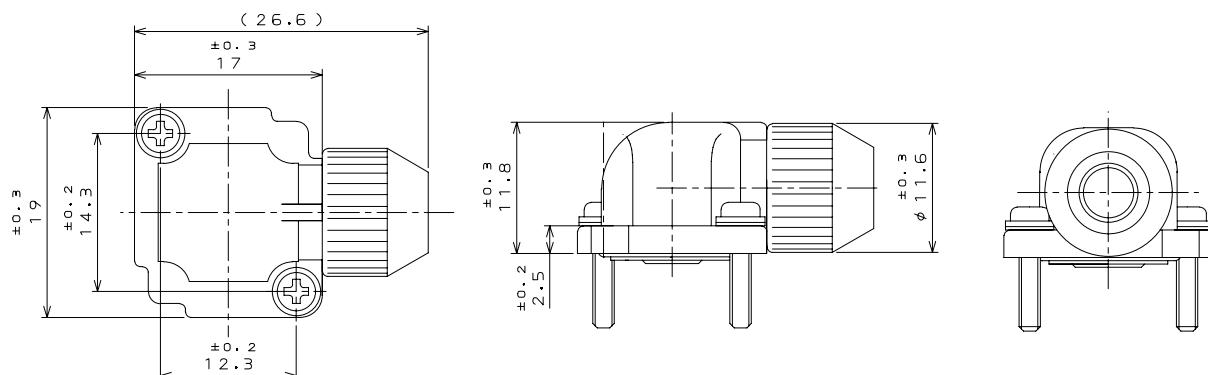
■ 4 contact type Plug for individual cable (JN4FT04SJ2-R)



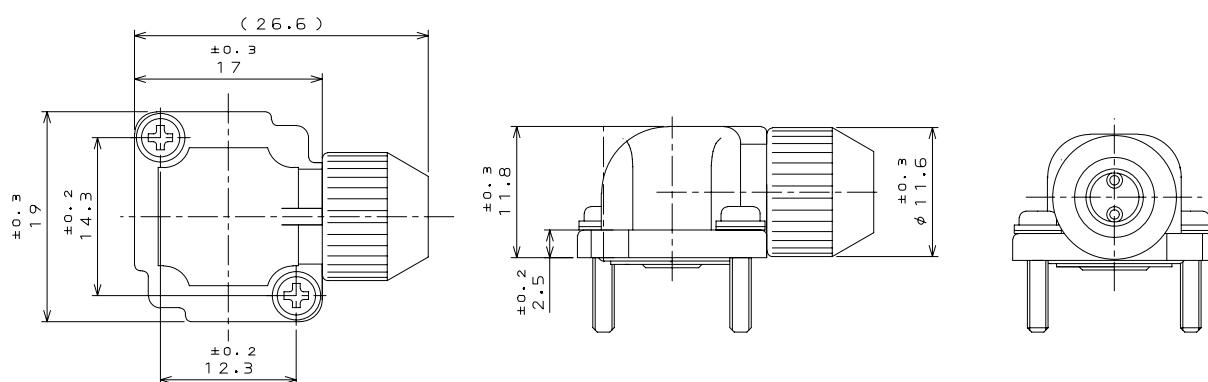
■ 2 contact type Receptacle (JN4AT02PJ1-R)



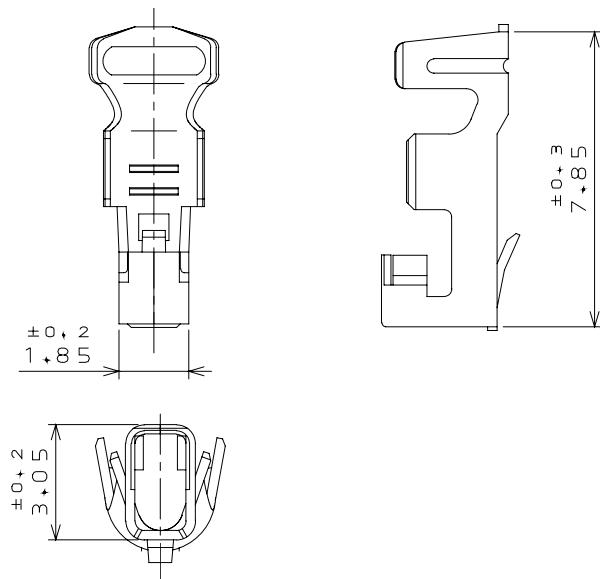
■ 2 contact type Plug for cabtire (JN4FT02SJ1-R)



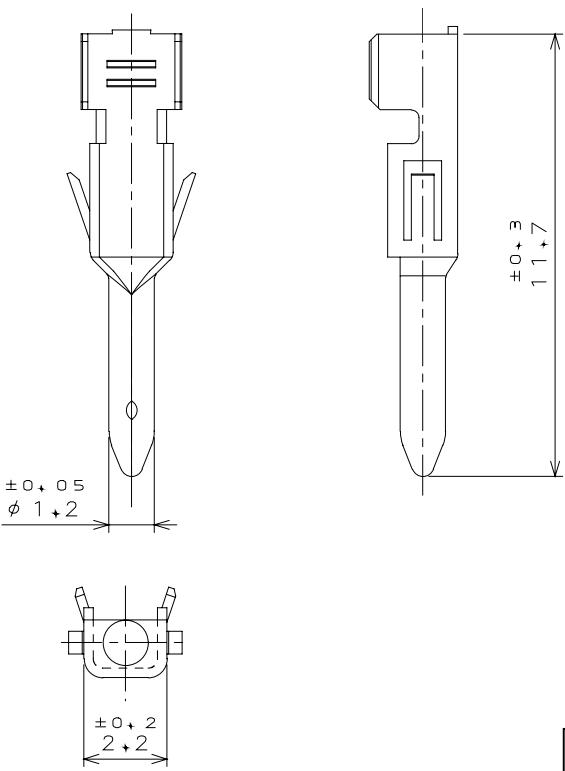
■ 2 contact type Plug for individual cable (JN4FT02SJ2-R)



■ Socket contact with coated barrel (ST-TMH-S-C1B-***)



■ Pin contact without coated barrel (ST-JN4-P-C1-***)



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Notice: Products shown in this leaflet 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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