

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

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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 (Individually Waterproofed)	2.9 x 10 <sup>4</sup> PA (per minute) without leakage	2.9 x 10 <sup>4</sup> PA (per minute) without leakage		
Operating Temperature	-20 Deg. C to +125 Deg.C	-20 Deg. C to +125 Deg.C		
Specification of Wire Connection	Receptacle: Through-hole, solder connection 22AWG (0.3mm <sup>2</sup> ) max. Cable connecting receptacle: Crimp connection 20 to 28AWG Plug: Crimp connection 20 to 28AWG Solder connection 20AWG max.	Receptacle: Solder connection 18 AWG (0.75mm <sup>2</sup> ) max. Cable connecting receptacle and plug: Solder connection 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		

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## [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. (DC500V energized)	1000M ohm min. (DC500V energized)
Waterproof	IP67	IP67
Airtightness (Individually Waterproofed)	2.9 X 10 <sup>4</sup> PA (per minute) without leakage	2.9 X 10 <sup>4</sup> PA (per minute) without leakage
Operating Temperature	-20 Deg. C to +100 Deg.C	-20 Deg. C to +100 Deg.C
Specification of Wire Connection	Receptacle: Through-hole, solder connection, 22AWG (0.3mm <sup>2</sup> ) max. Plug:	Receptacle: Solder connection, 18AWG (0.75mm <sup>2</sup> ) max. Plug:
	Crimp connection 20 to 28AWG Solder connection 20AWG max.	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]

Pi Ins	Pin insulator Pin contact Insulator	Synthetic resin Copper alloy / Au plating (10 pin), Silver plating (4 pin)			
Ins					
	nsulator				
As		Synthetic resin			
	ssembly nut	Synthetic resin			
Sr	araight endbell	Synthetic resin			
Relay 0	) Ring	Synthetic rubber			
Recepatacle Bu	sushing*	Synthetic rubber (Color: black/gray/brick red/dark green)			
G	Bland nut	Synthetic resin			
Pi	in contact (#22)	Au plating			
Pi	in contact (#20)	Silver plating			
Plug Fr	ront insulator	Synthetic resin			
Re	ear insulator	Synthetic resin			
C	Coupling nut	Synthetic resin			
A	ssembly nut	Synthetic resin			
Ar	ngle endbell	Synthetic resin			
St	traight endbell	Synthetic resin			
0	) Ring	Synthetic rubber			
В	sushing (*)	Synthetic rubber (Color: black/gray/brick red/dark green)			
G	Bland nut	Synthetic resin			
S	pring	Stainless steel			
S	pring pin	Stainless steel			
S	ocket contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)			
Waterproof Cap Ca	Сар	Synthetic rubber			

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

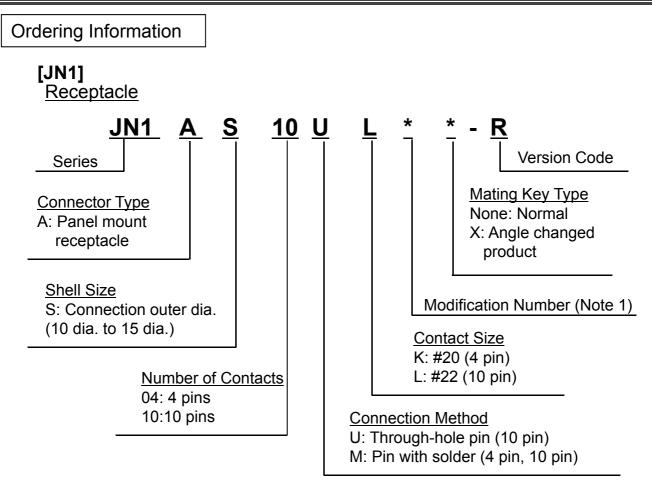
Color of Bushing	Applicable Cable
Gray	6.5 to 8.0 Dia.
Black	5.7 to 7.3 Dia.
Dark Green	4.7 to 5.7 Dia.
Brick Red	3.5 to 5.0 Dia.

# [JN2]

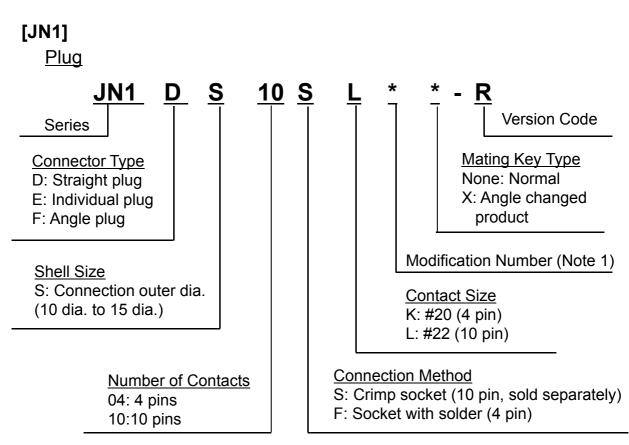
	Component	Material / Finish		
Receptacle	Pin insulator	Synthetic resin		
	Shell	Zinc die-cast / Zinc plating		
	Pin contact	Copper alloy / Au plating (10 pin), Silver plating (4 pin)		
Plug	Front insulator	Synthetic resin		
	Rear insulator	Synthetic resin		
	Coupling nut	Zinc die-cast / Zinc plating (Black)		
	Assembly nut	Zinc die-cast / Zinc plating (Black)		
	Angle endbell	Synthetic resin		
	Straight endbell	Synthetic resin		
	O Ring	Synthetic rubber		
	Bushing*	Synthetic rubber (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	Сар	Synthetic rubber		

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

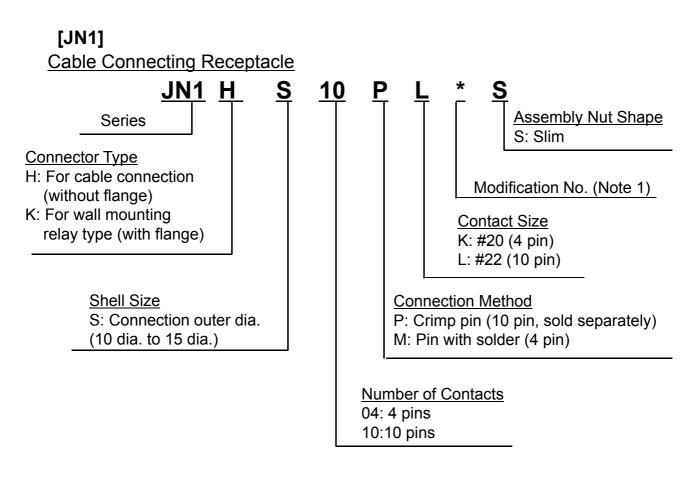
Color of Bushing	Applicable Cable
Gray	6.5 to 8.0 Dia.
Black	5.7 to 7.3 Dia.
Dark Green	4.7 to 5.7 Dia.
Brick Red	3.5 to 5.0 Dia.



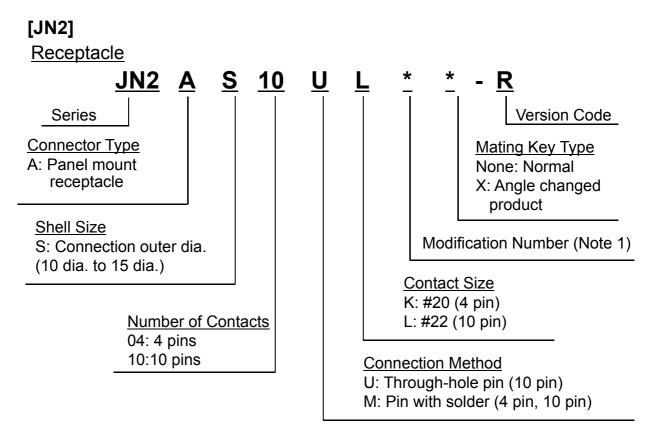
Note 1: Please refer to product drawings for Modification Number.



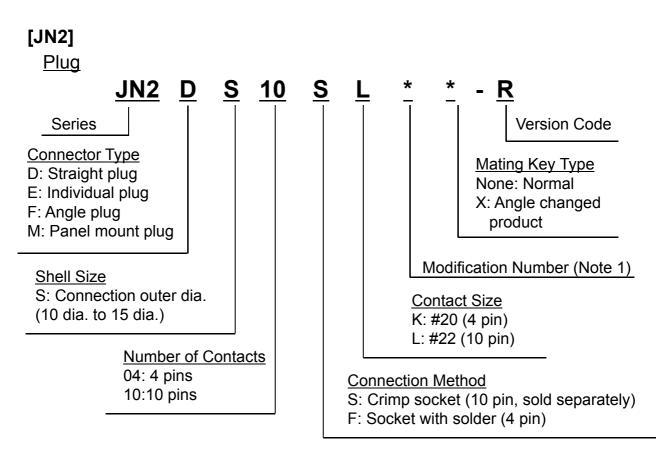
Note 1: Please refer to product drawings for Modification Number.



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## Part Number List

Series	No. of Con tacts	Connector Type	Part Number	Drawing Number	Performance / Shape
		Square Flange	JN1AS04MK1	SJ035649	Individually waterproofed, solder pin
		Receptacle	JN1AS04MK1X	SJ035649	Individually waterproofed, solder pin, X position
			JN1HS04MK1- R	SJ105206	Waterproof (when mated), solder pin, cable dia. 5.7 to 7.3
		Cable	JN1HS04MK2- R	SJ105206	Waterproof (when mated), solder pin, cable dia. 6.5 to 8.0
		Connecting Receptacle	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	JN1KS04MK1-R	SJ105207	Waterproof (when mated), solder pin, cable dia. 5.7 to 7.3
		Receptacle	JN1KS04MK2-R	SJ105207	Waterproof (when mated), solder pin, cable dia. 6.5 to 8.0
			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
	4		JN1DS04FK2	SJ035666	Waterproof (when mated), solder socket cable dia. 6.5 to 8.0
JN1		Straight Plug	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
			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
		90 Degree	JN1FS04FK2	SJ035610	Waterproof (when mated), solder socket cable dia. 6.5 to 8.0
		Angle Plug	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
	Wa	aterproof Cap	J025-52209-RK	SJ119896	JN1, 2 Receptacle (4, 10 pins) for waterproof, IP67

Series	No. of Con tacts	Connector Type	Part Number	Drawing Number	Performance / Shape						
		Rectangular Flange Receptacle	JN1AS10UL1	SJ034676	Waterproof (when mated), through-hole pin						
		Square	JN1AS10ML1-R	SJ105743	Waterproof (when mated), solder pin						
		Flange Receptacle	JN1AS10ML2-R	SJ105745	Individually waterproofed, solder pin						
			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.						
		Cable Connecting Receptacle	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)						
		10		JN1HS10PLKS2	SJ107656	Waterproof (when mated), crimp pin cable dia. 6.5 to 8.0, kit type (with rubber bushing and 10 contacts)					
	10			JN1HS10PLKS3	SJ107656	Waterproof (when mated), crimp pin cable dia. 3.5 to 5.0, kit type (with rubber bushing and 10 contacts)					
JN1		Wall Mount	JN1KS10PL1	SJ037294	Waterproof (when mated), crimp pin (sold separately), cable dia. 5.7 to 7.3						
		Receptacle	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						
									JN1DS10SL1	SJ034679	Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 5.7 to 7.3
					<u> </u>	JN1DS10SL2	SJ034679	Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 6.5 to 8.0			
		Straight Plug	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)					
			JN1FS10SL1	SJ034678	Waterproof (when mated), crimp or solder socket (sold separately) cable dia. 5.7 to 7.3						
		90 Degree Angle Plug	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)						
	Wat	erproof Cap	J025-52209-RK	SJ119896	JN1, 2 Receptacle (4, 10 pins) for waterproof, IP67						

Series	No. of Con tacts	Contact Type	Contact Termination	Packaging	Part Number	Drawing Number	Performance / Shape				
					JN1-22-20S-R-PKG100	SJ035503	20-21AWG Outer Dia. 1.5 max.				
				In pieces (100pcs.)	JN1-22-22S-PKG100	SJ035503	21-25AWG Outer Dia. 1.5 max.				
			Crimp		JN1-22-26S-PKG100	SJ035503	26-28AWG Outer Dia. 1.1 max.				
			Onnp	In reels	JN1-22-20S-R-10000	SJ035504	20-21AWG Outer Dia. 1.5 max.				
		Socket Contact		(10,000 pcs.)	-		-	· I J	JN1-22-22S-10000	SJ035504	21-25AWG Outer Dia. 1.5 max.
	1 10 1			JN1-22-26S-10000	SJ035504	26-28AWG Outer Dia. 1.1 max.					
JN1			Solder	Solder In pieces	JN1-22-22F-PKG100	SJ109855	In pieces(100pcs.), AWG#20 max. Outer Dia. 1.5 max.				
JN2		Obider		JN1-22-22F-PKG10	SJ109855	In pieces(10pcs.), 20AWG max. Outer Dia. 1.5 max.					
					JN1-22-20P-R-PKG100	SJ037430	20-21AWG Outer Dia. 1.5 max.				
		Pin Contact Crimp		In pieces (100pcs.)	JN1-22-22P-PKG100	SJ037430	21-25AWG Outer Dia. 1.5 max.				
			Crimp		JN1-22-26P-PKG100	SJ037430	26-28AWG Outer Dia. 1.1 max.				
			Contact Crimp		JN1-22-20P-R-10000	SJ037431	20-21AWG Outer Dia. 1.5 max.				
						In reels (10,000 pcs.)	JN1-22-22P-10000	SJ037431	21-25AWG Outer Dia. 1.5 max.		
			JN1-22-26P-10000	SJ037431	26-28AWG 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.

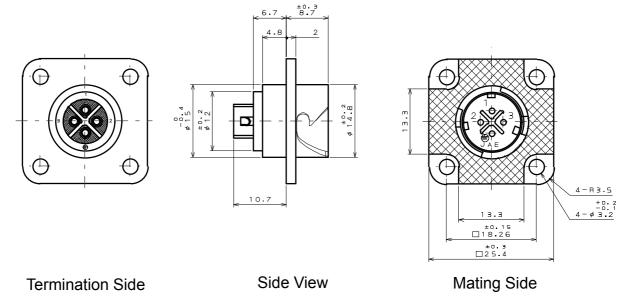
## Part Number List

Series	No. of Con tacts	Connector Type	Part Number	Drawing Number	Performance / Shape					
		Square	JN2AS04MK2-R	SJ105530	Individually waterproofed, solder pin, body earth structure					
		Flange Receptacle	JN2AS04MK2X-R	SJ105530	Individually waterproofed, solder pin, body earth structure, X position					
			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					
		4 Straight Plug	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)					
JN2	4							JN2DS04FKKX-R	SJ105536	Waterproof (when mated), solder socket, kit type (with two types of rubber bushing), X position
			JN2FS04FK1X-R	SJ105531	Waterproof (when mated), solder socket, cable dia. 5.7 to 7.3					
			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					
		Angle Plug	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					

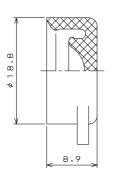
Series	No. of Con tacts	Connector Type	Part Number	Drawing Number	Performance / Shape
		Square	JN2AS10ML1-R	SJ105537	Waterproof (when mated), solder pin
		Flange Receptacle	JN2AS10ML2-R	SJ105538	Individually waterproofed, solder pin
		Panel	JN2MS10SL1-R	SJ105544	Waterproof (when mated), crimp or solder socket (sold separately)
		Mount Plug	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
			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
	10 JN2	Straight Plug	JN2DS10SL3-R	SJ105529	Waterproof (when mated), crimp or solder socket (sold separately), cable dia. 3.5 to 5.0
JN2			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)
			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
		Angle Plug	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)
	Wat	terproof 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

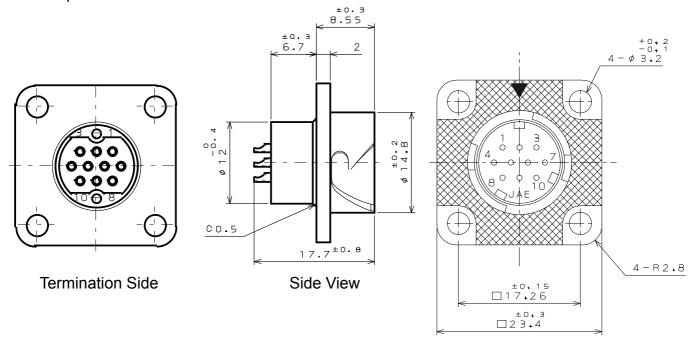




Side View

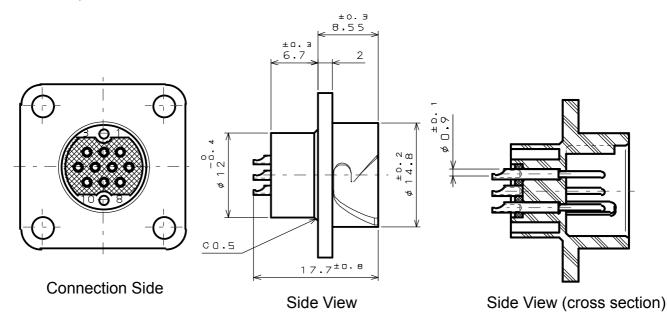
Mating Side

## ■ Receptacle JN1AS10ML1-R

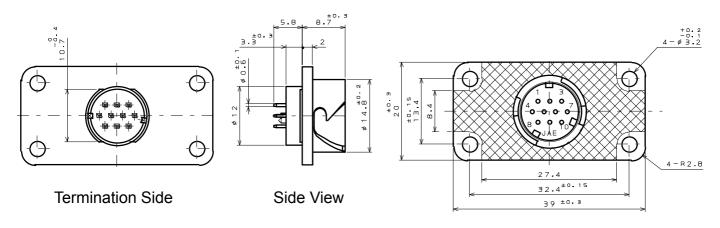


Mating Side

■ Receptacle JN1AS10ML2-R

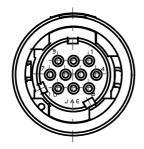


■ Receptacle JN1AS10UL1

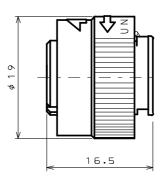




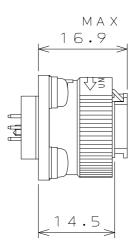
Individual Plug JN1ES10SL1

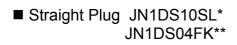


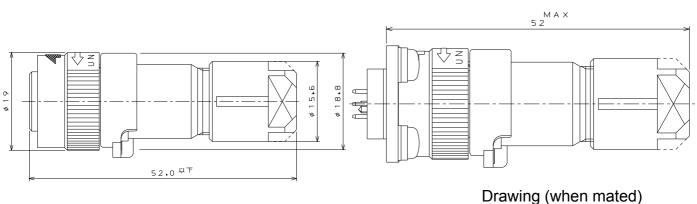
Mating Side



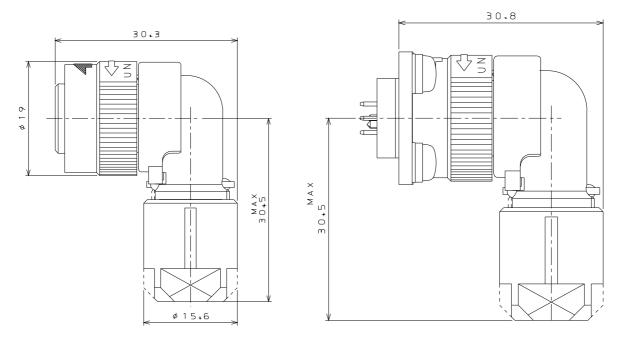
Side View



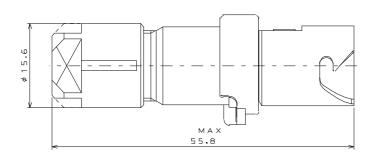


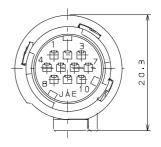


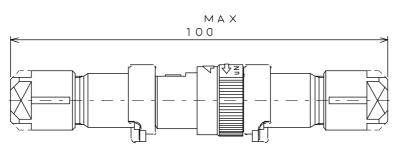
■ Angle Plug JN1FS10SL\* JN1FS04FK\*\*



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

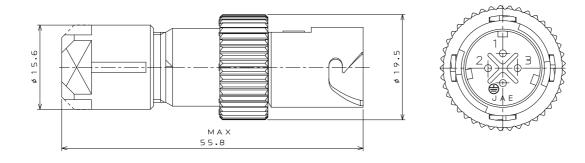


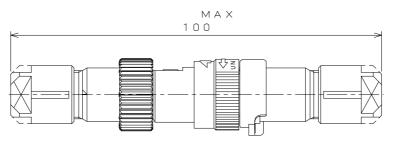


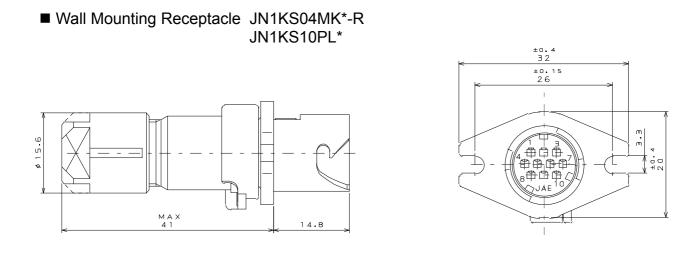


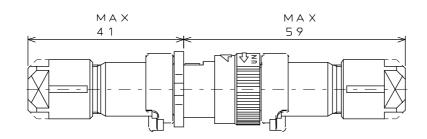
Drawing (when mated)

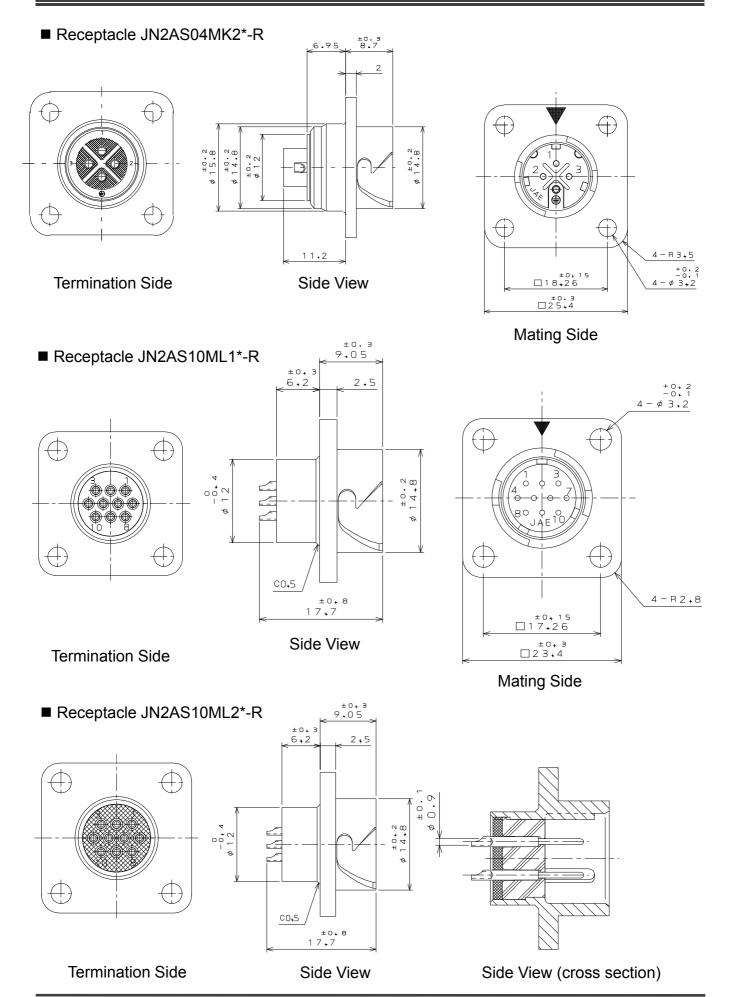
Cable Connecting Receptacle JN1HS04MK\*S (Slim Outer Diameter Type) JN1HS10PL\*S





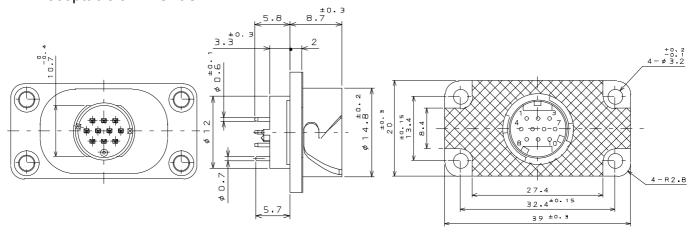






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## ■ Receptacle JN2AS10UL1-R

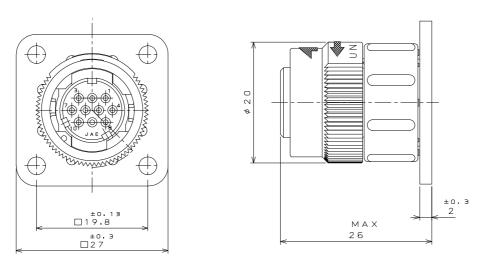


**Termination Side** 



Mating Side

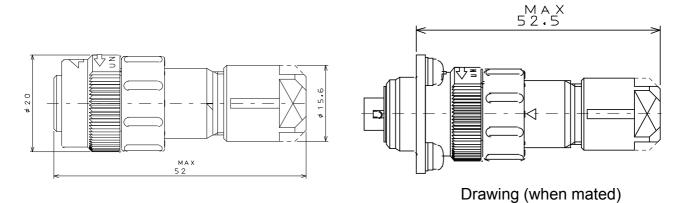
■Panel Mount Plug JN2MS10SL\*-R



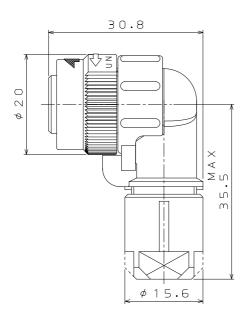
Mating Side

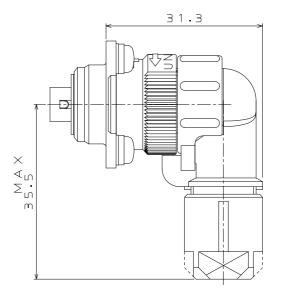
Side View

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



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





Drawing (when mated)

Type of Tool	Instruction Manual for Tooling	Applicable Tooling	Applicable Wire	Outer Diameter	Part Number of Applicable Contact (Note 1)
Hand crimp (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 (for contacts in reels)	T703294	350-JN1-2C (Old model) Note 3	20 to 28AWG	Dia. 0.8 to 1.5	JN1-22-20*-R-10000 JN1-22-22*-10000
	T703413	3502-JN1-2C (New model)	ZOAVVG		JN1-22-26*-10000

Crimp Contact Part Number and Applicable Wires and Tooling

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 :

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

(2) Recommended applications include:

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