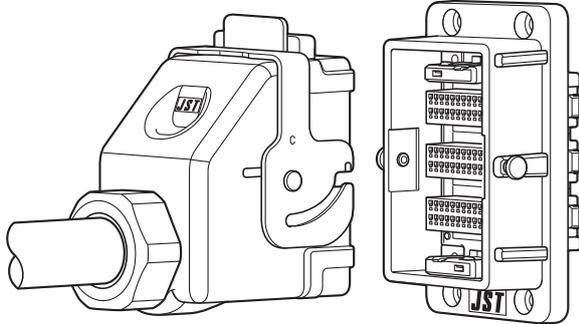




JFA CONNECTOR METAL SHELL SERIES

Wire-to-wire connector (For Interface)



Metal shell type I/O connector which contacts are used also with JFA connector J2000 series and J300 series.

- **Applicable contact and tooling can be unified**
- **Rigid metal shell**
- **Waterproof performance**
- **Misinsertion prevention**

* In using the products, refer to "Handling Precaution for Terminals and Connectors" described on our website (Technical documents of Product information page).

* RoHS2 compliance

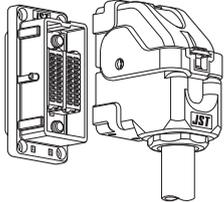
* Dimensional unit: mm

* Contact JST for details.

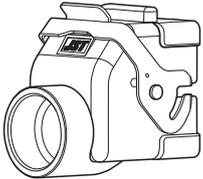
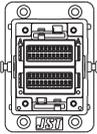
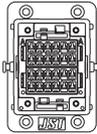
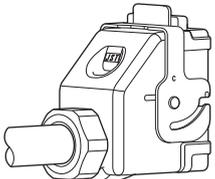
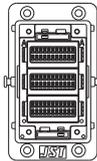
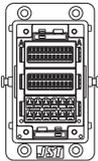
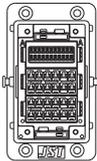
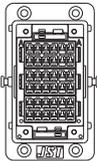
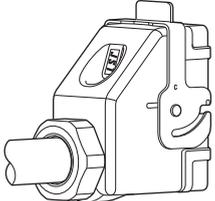
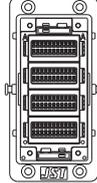
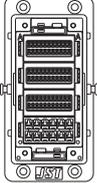
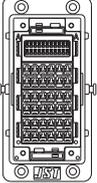
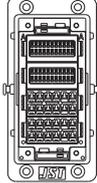
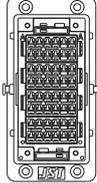
JFA CONNECTOR / METAL SHELL SERIES

Line-up of metal shell

◆J2900

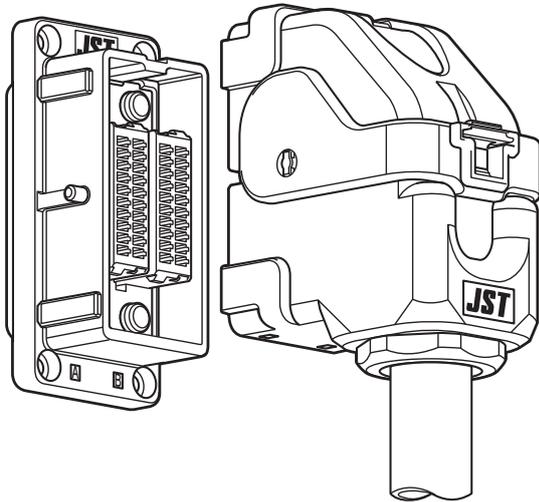
Connector series	J2000 series
	40P
J2900	
No. of circuits	20P × 2 pcs.

◆JFA-M

Type	Shell	Examples of combinations			
2 Module		J2000 (22P) × 2	J2000 (22P) × 1 + J300 (12P) × 1	J300 (12P) × 2	
					
No. of circuits		44P	34P	24P	
3 Module		J2000 (22P) × 3	J2000 (22P) × 2 + J300 (12P) × 1	J2000 (22P) × 1 + J300 (12P) × 2	J300 (12P) × 3
					
No. of circuits		66P	56P	46P	36P
4 Module		J2000 (22P) × 4	J2000 (22P) × 3 + J300 (12P) × 1	J2000 (22P) × 2 + J300 (12P) × 2	J300 (12P) × 4
			 		
No. of circuits		88P	78P, 58P	68P	48P



JFA CONNECTOR J2900 SERIES



This connector is a metal shell type I/O connector and it's completely waterproof. Contacts are designed to be common use with JFA connector J2000 series.

- Rigid metal shell
- Easy mating operation

■ Standards

⚡ : Recognized E 60389

△ : R 50354834

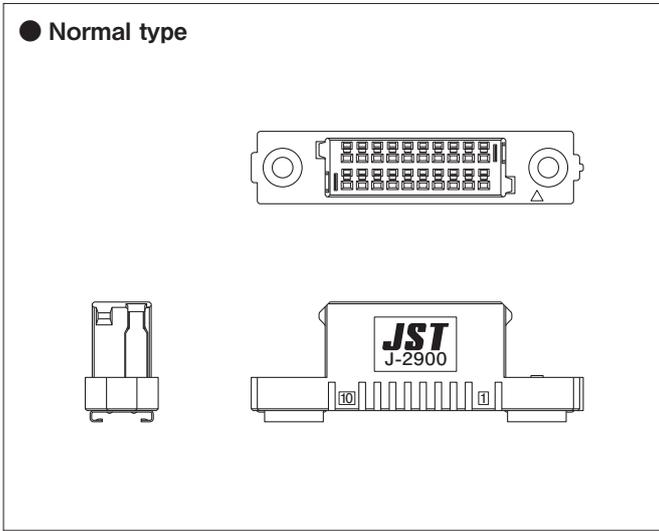
■ Specifications

- Current rating: 3 A AC/DC (AWG #20)
 - Voltage rating: 250 V AC/DC
 - Temperature range: -55°C to + 105°C
(including temperature rise in applying electrical current)
 - Applicable cable O.D.: 11.1 to 13.5 mm
- * Please note that the above general specifications may differ from the safety standards.
- * In using the products, refer to "Handling Precaution for Terminals and Connectors" described on our website (Technical documents of Product information page).
- * RoHS2 compliance
 - * Dimensional unit: mm
 - * Contact JST for details.

METAL SHELL SERIES /J2900

Receptacle housing assembly

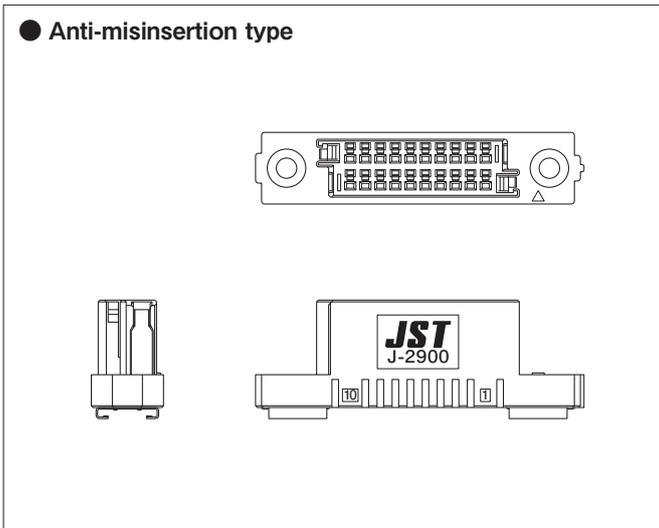
● Normal type



No. of circuits	Model No.	Q'ty/box
20	J29FA-20-K	70

RoHS2 compliance

● Anti-misinsertion type

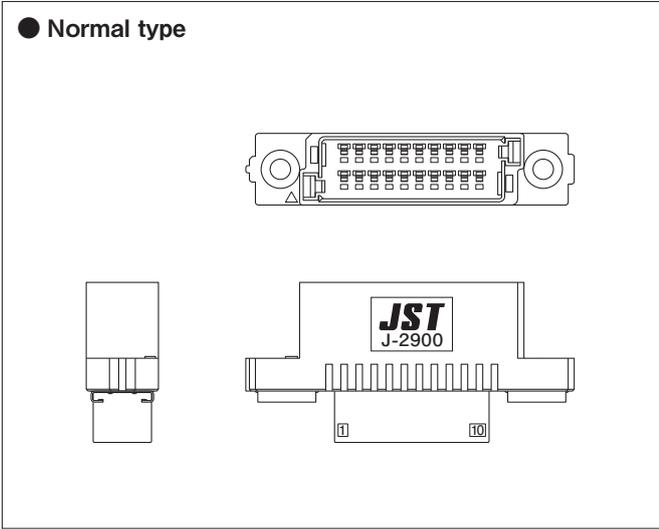


No. of circuits	Model No.	Q'ty/box
20	J29FA-20-H-1	70

RoHS2 compliance

Tab housing assembly

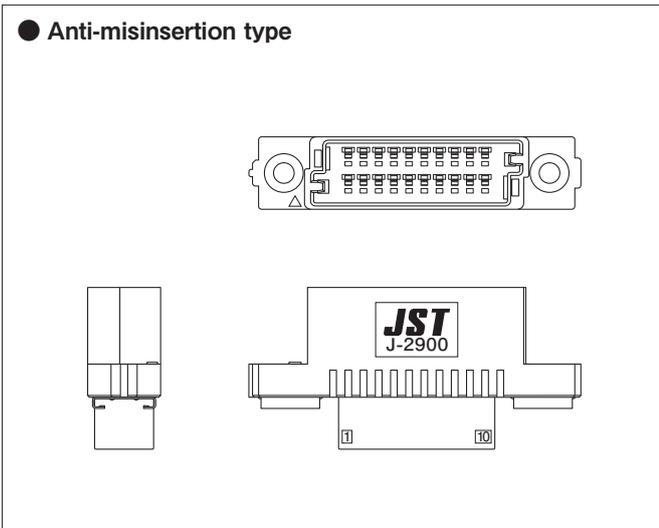
● Normal type



No. of circuits	Model No.	Q'ty/box
20	J29MA-20-K	70

RoHS2 compliance

● Anti-misinsertion type



No. of circuits	Model No.	Q'ty/box
20	J29MA-20-H-1	70

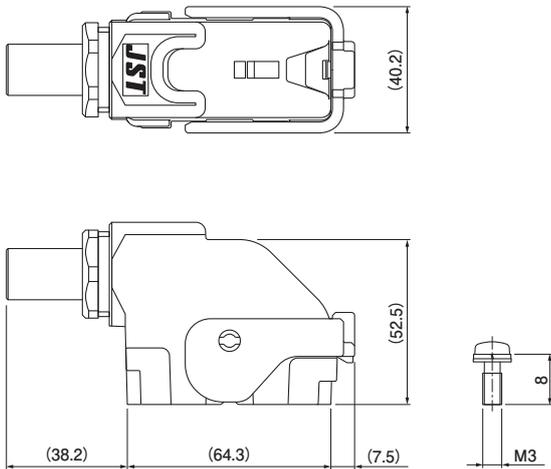
RoHS2 compliance

METAL SHELL SERIES /J2900

◆ Wire side

Shell kit

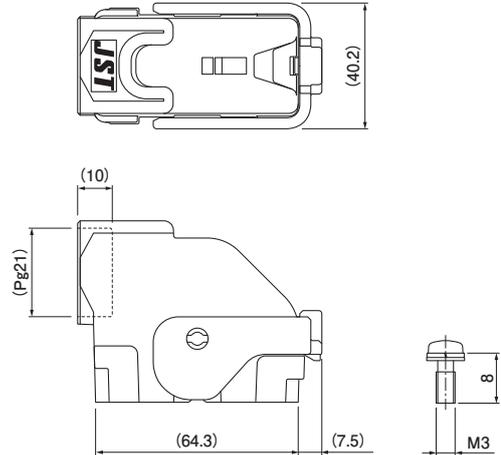
● Normal type



Model No.	Q'ty/box
J29WK-K-1	30

RoHS2 compliance This product displays (PF) on a label.

● For Pg21



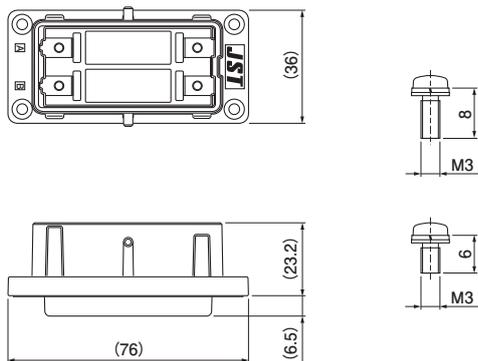
Pg21 screw mounting product (For flexible tubing, etc.)

Model No.	Q'ty/box
J29WK-K-A	35

RoHS2 compliance This product displays (PF) on a label.

◆ Panel side

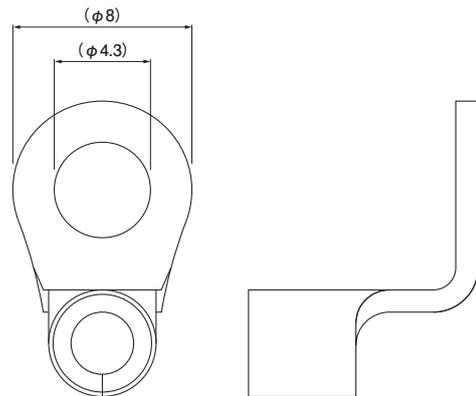
Shell kit



Model No.	Q'ty/box
J29PK-K	35

RoHS2 compliance This product displays (PF) on a label.

● Ground terminal

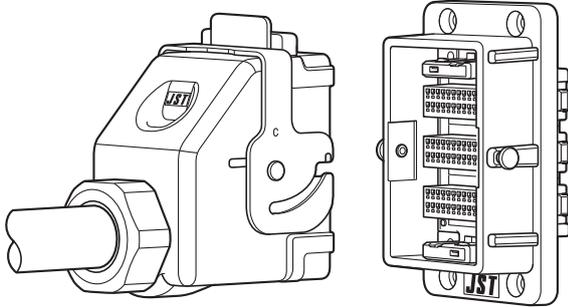


Model No.	Q'ty/box
L3.5-R4	1,000

RoHS2 compliance



JFA CONNECTOR JFA-M SERIES



Metal shell type connector which contacts are designed to be common use with JFA connector J2000 series and J300 series.

- Rigid metal shell
- Lever (3 and 4 module types) provides easy mating and unmating connector
- Combination of modular housing

■ Standards

⚡ : Recognized E 60389

⚠ : R50287698

■ Specifications

- Current rating: J2000 Series (2 and 3 Module)
…3 A AC/DC (AWG #20)
J2000 Series (4 Module)
…2.5 A AC/DC (AWG #20)
J300 Series …5 A AC/DC (AWG #16)
- Voltage range: J2000 Series …250 V AC/DC
J300 Series …600 V AC/DC
- Temperature range: -55°C to +105°C
(including temperature rise in applying electrical current)

* Please note that the above general specifications may differ from the safety standards.

* In using the products, refer to “Handling Precaution for Terminals and Connectors” described on our website (Technical documents of Product information page).

* RoHS2 compliance

* Dimensional unit: mm

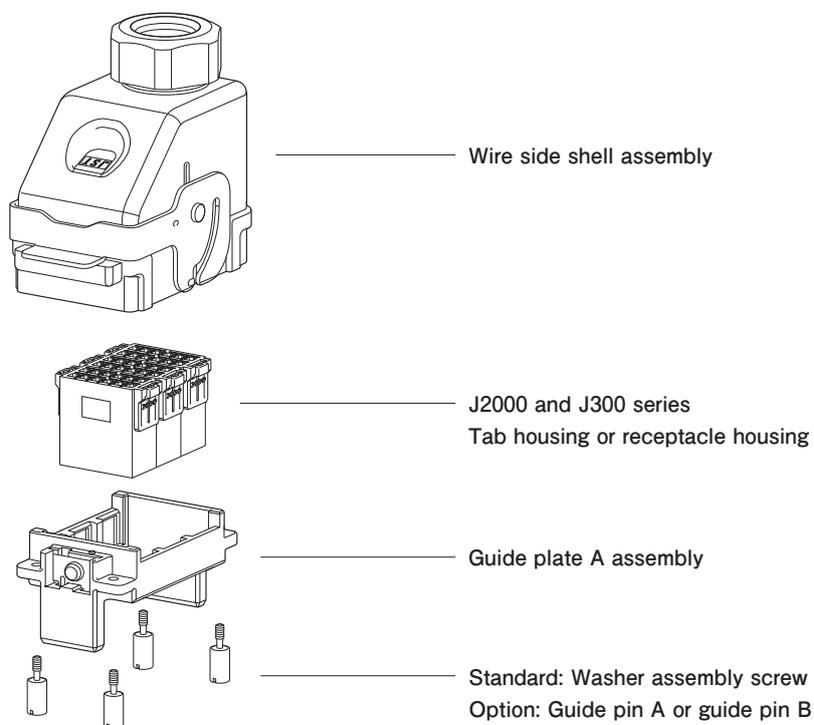
* Contact JST for details.

METAL SHELL SERIES / JFA-M

Components

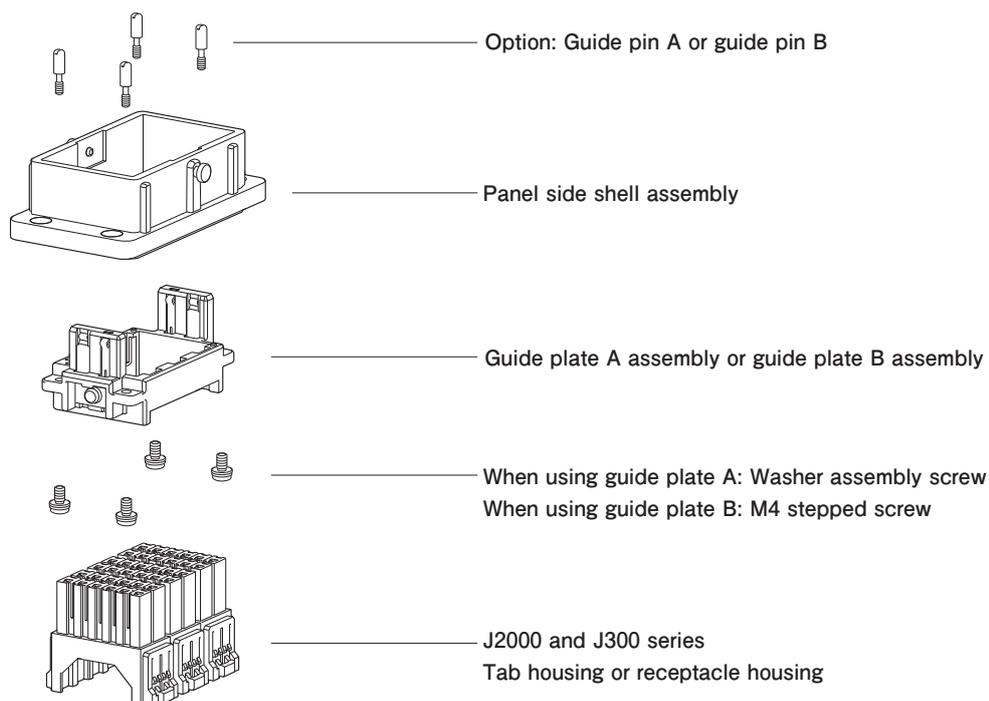
◆ Wire side

Shell assembly



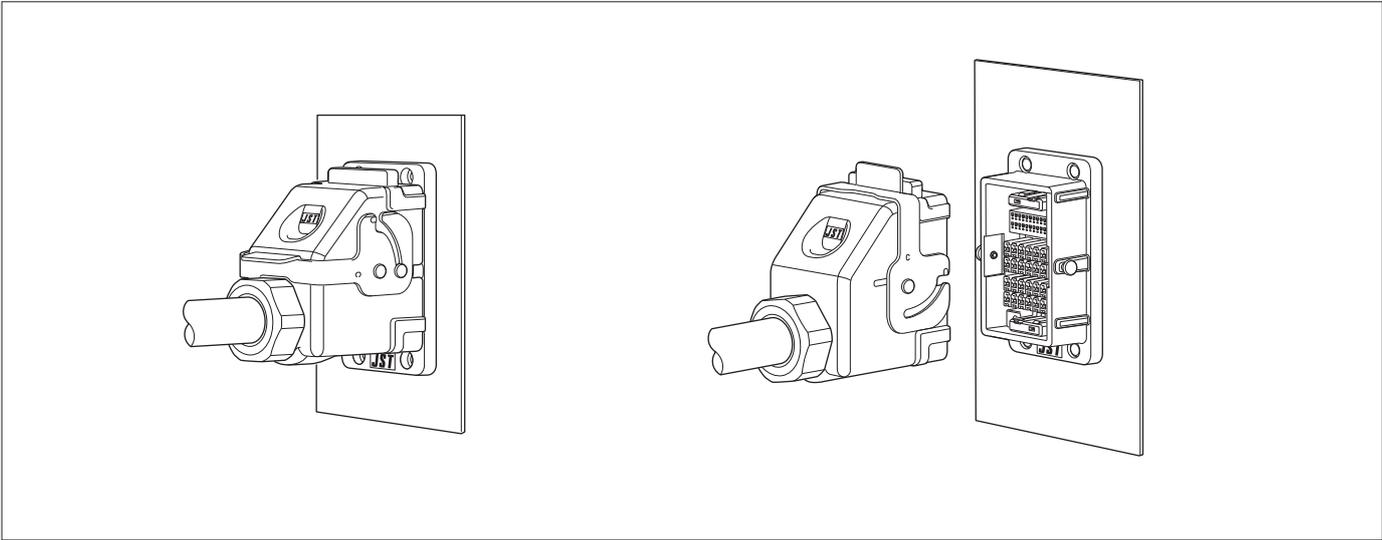
◆ Panel side

Shell assembly

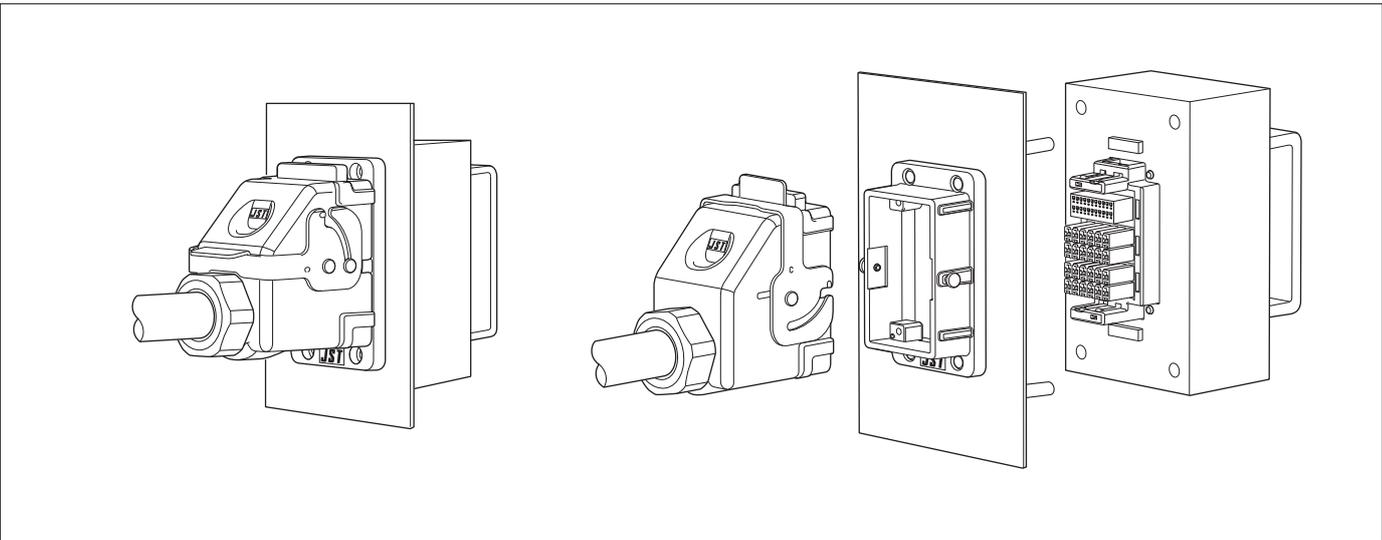


Examples of use

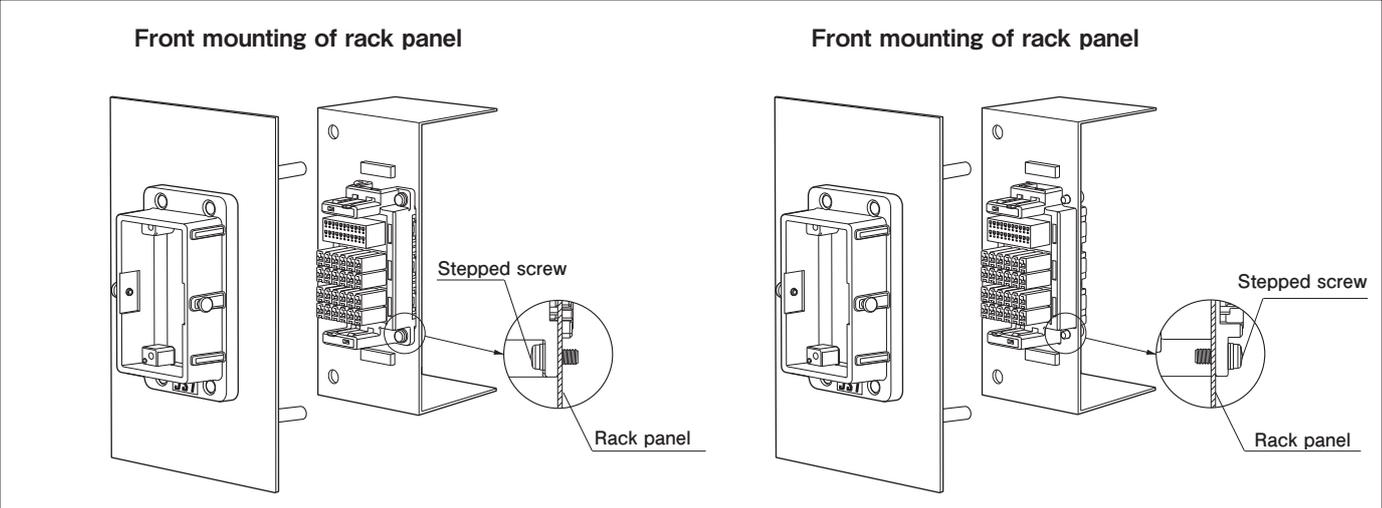
Waterproof I/O connector



Drawer type



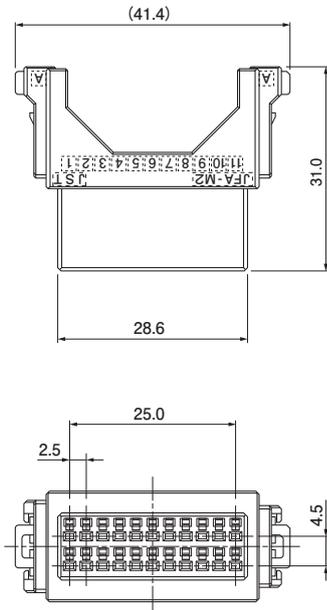
Drawer type (Rack mounting method)



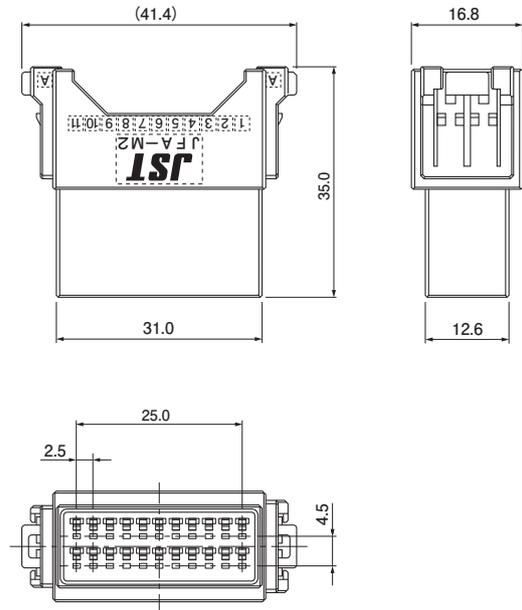
METAL SHELL SERIES / JFA-M

J2000 series housing (User for both panel mounting and drawer type)

● Receptacle housing
JFM2FDN-22V-K



● Tab housing
JFM2MDN-22V-K

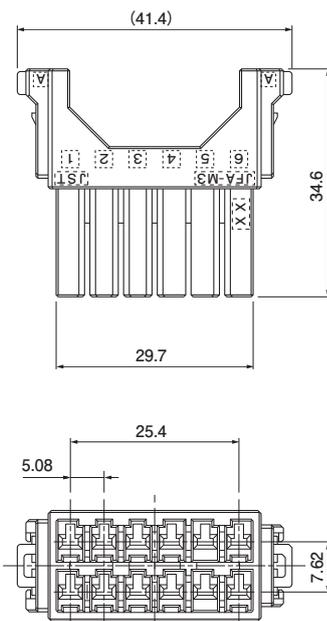


Note: Refer to the J2000 series receptacle contact and sequential tab contact page for the J2000 series contact.

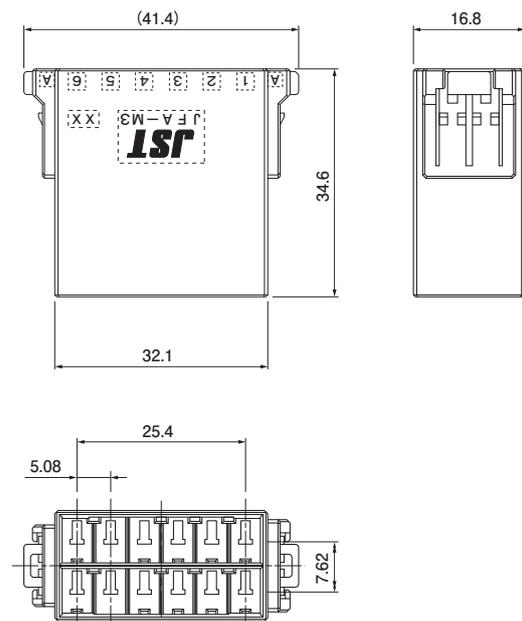
RoHS2 compliance

J300 series housing (User for both panel mounting and drawer type)

● Receptacle housing
JFM3FMN-12V-K



● Tab housing
JFM3MMN-12V-K

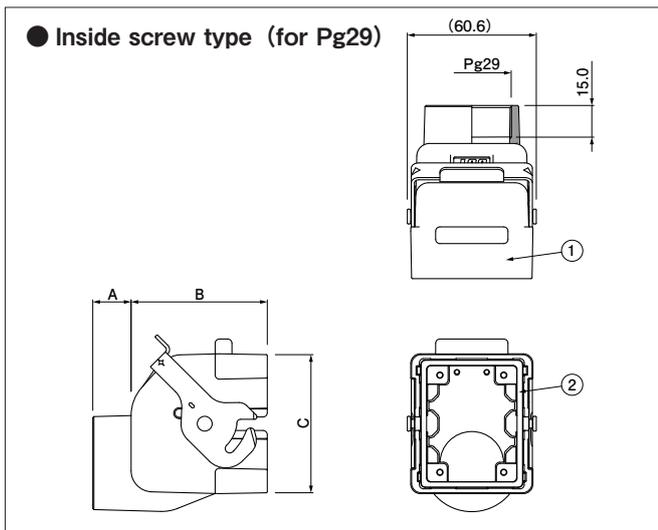
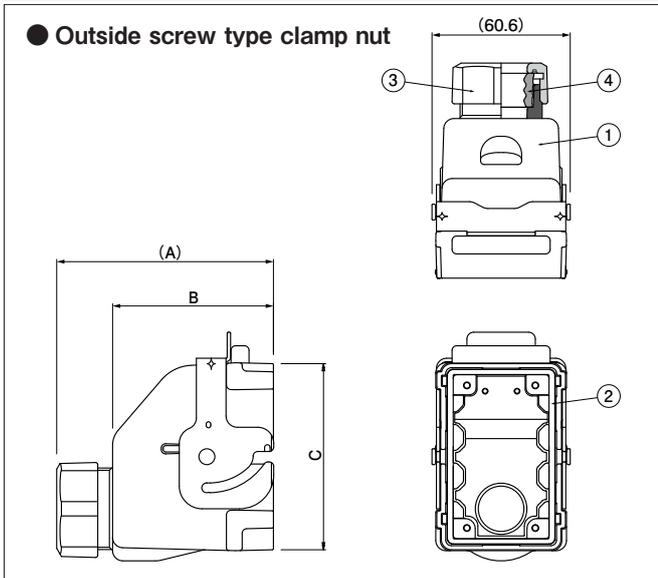


Note: Refer to the J300 series receptacle contact and tab contact page for the J300 series contact.

RoHS2 compliance

◆ Wire side

Shell assembly



No. of combining housing	Model No.	Applicable Cable O.D. (mm)	Dimensions (mm)		
			A	B	C
3 Module	JFM-WSA-3-B	φ 20.2 to 22.0	95.0	70.5	82.0
	JFM-WSA-3-C	φ 15.5 to 16.5	95.8		
4 Module	JFM-WSA-4-A	φ 26.2 to 28.0	103.5	79.0	99.0
	JFM-WSA-4-C	φ 15.5 to 16.5	104.3		

No.	Parts name	Q'ty
1	Wire side shell	1
2	Seal ring	1
3	Clamp nut	1
4	Clamp rubber	1

RoHS2 compliance This product displays (PF) on a label.

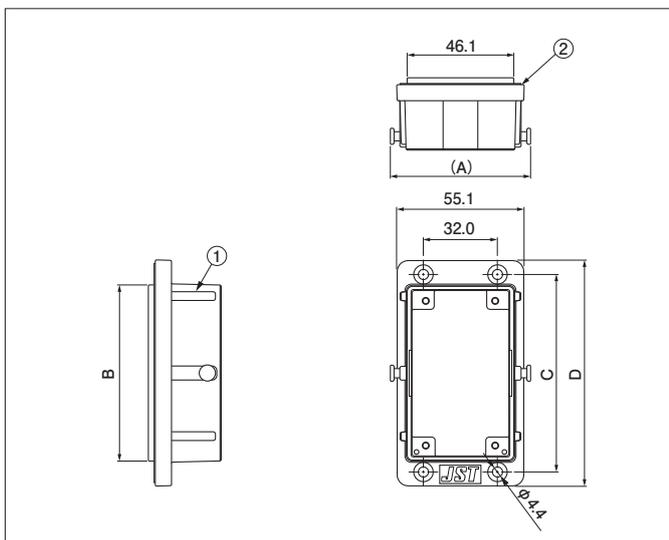
No. of combining housing	Model No.	Dimension (mm)		
		A	B	C
2 Module	JFM-WSA-2-1	18.0	64.0	66.2

No.	Part name	Q'ty
1	Wide side shell	1
2	Seal ring	1

RoHS2 compliance

◆ Panel side

Shell assembly



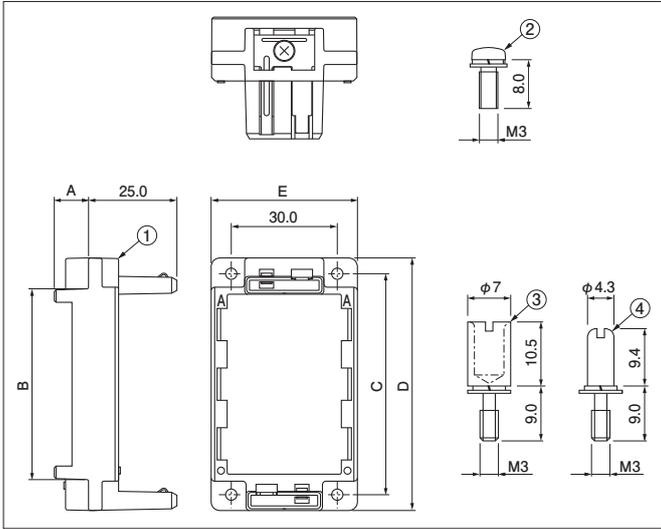
No. of combining housing	Model No.	Dimensions (mm)			
		A	B	C	D
2 Module	JFM-PSA-2	60.5	59.7	69.0	81.5
3 Module	JFM-PSA-3	60.6	76.7	86.0	98.5
4 Module	JFM-PSA-4	60.6	93.7	103.0	115.5

No.	Parts name	Q'ty
1	Panel side shell	1
2	Seal rubber prate	1

RoHS2 compliance JFM-PSA-3 and JFM-PSA-4 display (PF) on a label.

METAL SHELL SERIES / JFA-M

Guide plate A (With the combination of side and panel side shell assembly)



No. of combining housing	Model No.	Dimensions (mm)				
		A	B	C	D	E
2 Module	JFM-GPAK-2	9.6	37.4	46.0	54.8	41.9
3 Module	JFM-GPAK-3	9.7	54.4	63.0	72.0	41.4
4 Module	JFM-GPAK-4	9.7	71.4	80.0	89.0	41.4

No.	Parts name	Q'ty
1	Guide plate A assembly	1
2	Washer assembly screw	4
3	Guide pin A JFM-PIA3-N	—
4	Guide pin B JFM-PIB3-N	—

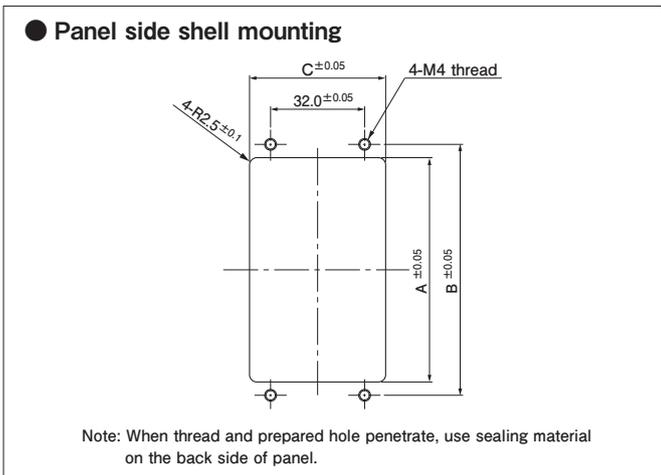
RoHS2 compliance
 Note: Guide pins A and B are optional parts.

Refer to the combinations list below for the guide pin A/B usage. (Shell mounting pattern at panel side)

No. of guide pins	Pattern 1	Pattern 2	Pattern 3	Pattern 4	Pattern 5	Pattern 6
Guide pin A: 0 pcs. Guide pin B: 4 pcs.						
Guide pin A: 1 pcs. Guide pin B: 3 pcs.						
Guide pin A: 2 pcs. Guide pin B: 2 pcs.						
Guide pin A: 3 pcs. Guide pin B: 1 pcs.						
Guide pin A: 4 pcs. Guide pin B: 0 pcs.						

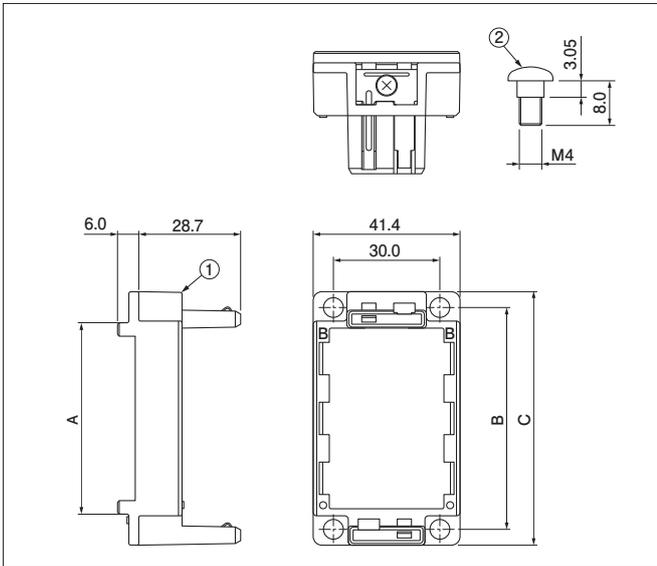
Note: Shell mounting pattern at wire side becomes opposite to the above pattern.

Panel cut dimensions



No. of combining housing	Dimensions (mm)		
	A	B	C
2 Module	60.0	69.0	46.4
3 Module	76.9	86.0	46.3
4 Module	93.9	103.0	46.3

Guide plate B



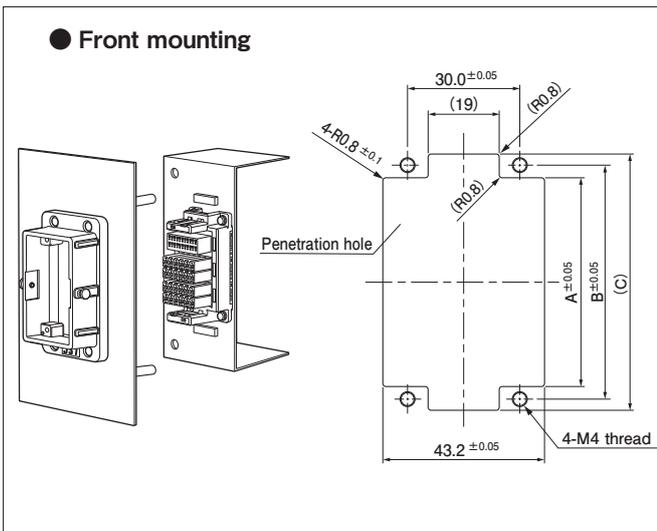
No. of combining housing	Model No.	Dimensions (mm)		
		A	B	C
3 Module	JFM-GPBK-3	54.4	63.0	72.0
4 Module	JFM-GPBK-4	71.4	80.0	89.0

No.	Parts name	Q'ty
1	Guide plate B Assembly	1
2	M4 stepped screw	4

RoHS2 compliance

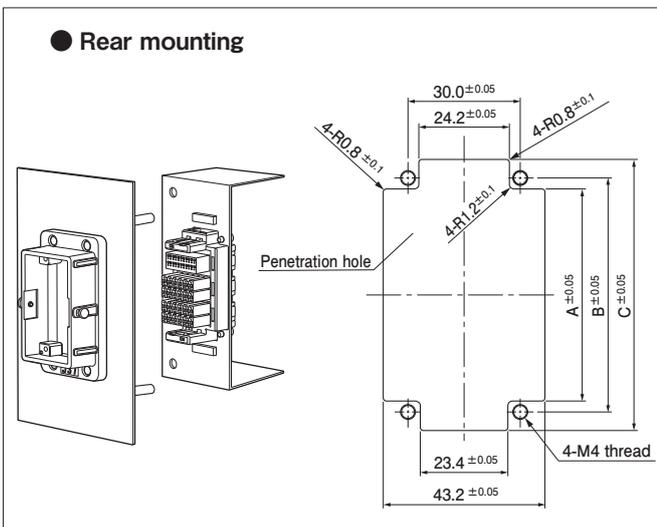
Drawer type rack panel cut dimensions

● Front mounting



No. of combining housing	Dimensions (mm)		
	A	B	C
3 Module	56.2	63.0	69.0
4 Module	73.2	80.0	86.0

● Rear mounting



No. of combining housing	Dimensions (mm)		
	A	B	C
3 Module	57.1	63.0	73.0
4 Module	74.1	80.0	90.0