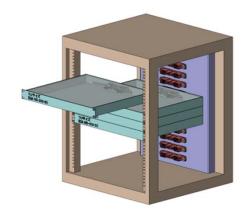




DW3 Series (UL Recognized Product)

CONNECTOR MB-0267-2 January 2014







RoHS Compliant

Plug (DW3P002ZH1)

Receptacle (DW3R002ZH1)

Drawing when DW3 is mounted

The DW3 Series is a rack and panel connector with 2 contacts for high-current (150A). It enables the connection of the 2 contacts for power supply and the 24 contacts for signal at once. The DW3 Series is suitable for use in a wide range of applications such as storage battery systems, power supply systems, UPS, and other power supply control equipments. The DW3 Series is a UL recognized product.

Features

- ■UL Recognized Product: File No.E67741 Signal connector can be attached to the
- ■High-current: compatible with 150A
- ■Electrical Shock Prevention: structure that prevents a person's fingers from touching the terminal.
- ■Floating Amount: ±2.0mm
- ■Robust housing integrating complex power supply and signal area.
- ■Low-profile, compact, possible to be equipped on a 19 inch 1U rack.

- ■Signal connector can be attached to the main unit using an exclusive jig.
- ■Signal area has a 2-point contacting structure contact.
- ■Connection of receptacle side power supply can be made at once using the bus bar.
- ■Signal contacts in 3 types enable adjustment of 3-step first mate last break mating.

General Specifications

■No. of Contacts:

2 pos. (power supply) 24 pos. (signal)

■Rated Current:

150A (power supply) 2A (signal)

■Rated Voltage:

600V (power supply) *Note1 100V (signal)

■Contact Resistance:

 $0.3m\Omega$ max. (initial) power supply $20m\Omega$ max. (initial) signal

■Durability: 100 times

■Operating Temperature:

-25 Deg. C to +105 Deg. C

■Wire Size: 22AWG, twisted wire with insulation cover outer diameter 1.5mm Dia. (signal)

Note 1: Please contact us when considering use in usage environments that exceed 600V.

Ordering Information

W 3 R 0 0 2 Z H 1

Series

Connector Type R: Receptacle

Modification Code

Plating of Contact Area H: Ag plating

Connection Type Z: Others

No. of Contacts

002: 2 pos. (shown in 3 digit)

Series

Connector Type

R: Receptacle

P: Plug

Modification Code

No. of Contacts

012: 12 pos. (shown in 3 digit)

Series

Modification Code

Connection Type

S: Crimp, socket

P: Crimp, pin

Plating of contact area F: Sn plating

Applicable Cable Size:

4: 22AWG

No. of Contacts 04K: 4000 pcs.

Reel Part Number

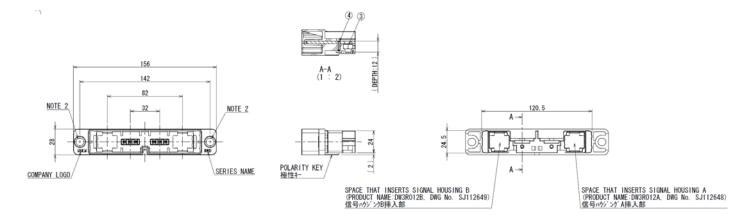
K: unit of 1000 pcs. (Note 1)

Note 1: An embossed reel contains 4,000 pcs.

Product Drawing

1. Plug (Main Unit)

Part Number	DW3P002ZH1		
SJ Drawing	SJ112646		



- NOTE 1. PRODUCTION LOT NUMBER AND RATED CURRENT/VOLTAGE IS INDICATED AT THIS LOCATION.

THROUGH HOLE FOR ATTACHMENT SCREW.

USE 'SHOULDER BOLT (DWG No. SJ112653)' OR 'M6 SCREW (WITH WASHER)' FOR ATTACHMENT SCREW.

- USE 'SHOULDER BOLT (DWG No.SJ112653) OR 'M6 SCREW(WITH WASHER) FOR ATT TIGHTEN SHOULDER BOLT BY 5.2[N·m] ±0.5[N·m].

 **TIGHTEN M6 SCREW BY 2.6[N·m] ±0.3[N·m].

 NOTE 3. POWER SUPPLY TERMINAL CONNECTION POSITION.

 **TIGHTEN M6 SCREW BY 5.2[N·m] ±0.5[N·m].

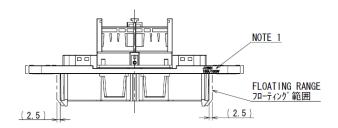
 NOTE 4. THE ANGLE BETWEEN PANELS IS NOT INCLINING MORE THAN THE TOLERANCE LEVEL OF THE POSITION GAPS (X, Y:±2mm) AND THE DISTANCE (Z:±1.5mm).
- 図示の位置に製造ロットと定格電流/定格電圧を表示する。 取り付けねじ用貫通穴
- 注1. 注2.

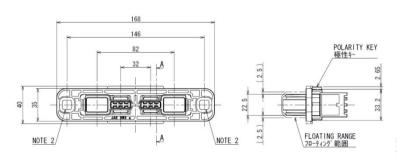
- 取り付けねじには「M6ねじ(ワッシャー付)」または「ショルダーボルト(図番:SJ112654)」を使用のこと。
 ・ショルダーボルト締め付けトルク: 2.6[N·m]±0.3[N·m].
 ・M6ねじ締め付けトルク: 5.2[N·m]±0.5[N·m].
 電源端子接続部・M6ねじ締め付けトルク: 5.2[N·m]±0.5[N·m].
 n゚ネル間の角度は位置ずれ(X,Y:±2mm)および距離(Z:±1.5mm)の許容範囲を超えて傾かないこと。

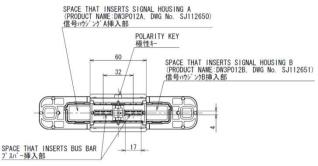
4	SPRING PIN	2	STAINLESS STEEL	_	_
3	HEXAGON NUT M6	2	BRASS	NICKEL PLATING	_
2	PIN CONTACT	2	COPPER ALLOY	SILVER PLATING	_
1	BASE HOUSING	1	PBT	COLOR: BLACK	_
符号 NO.	名 称 DESCRIPTION	個数 QTY.	材 料 MATERIAL	仕 上 FINISH	備 考 REMARKS

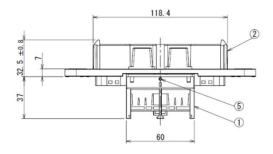
2. Receptacle (Main Unit)

Part Number	DW3R002ZH1
SJ Drawing	SJ112647









- PRODUCTION LOT NUMBER AND RATED CURRENT/VOLTAGE AS INDICATED.
- THROUGH HOLE FOR ATTACHMENT SHOULDER BOLT (DWG No. SJ112654). TIGHTEN SHOULDER BOLT WITH 5. $2[N \cdot m] \pm 0.5[N \cdot m]$. NOTE 2.

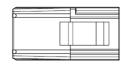
NOTE 3. DON'T PUT THE FOREIGN BODY IN THE CONNECTOR MOVABLE RANGE.

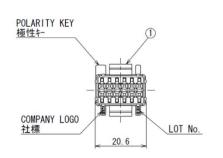
- 図示の位置に製造ロットと定格電流/定格電圧を表示する。 取り付けショルダーボルト(図番:SJ112654)用貫通穴 ショルダーボルト締め付けトルク: 5.2[N·m]±0.5[N·m]. 注1. 注2.
- コネクタ移動範囲のため異物を設けないこと。 注3.

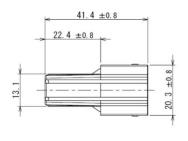
5	SPRING PIN	1	STAINLESS STEEL	_	_
4	HELICAL EXTENSION SPRING	6	STAINLESS STEEL	_	_
3	FLOATING CONTACT	12	COPPER ALLOY	SILVER PLATING	_
2	FLOATING HOUSING	1	PBT	COLOR : BLACK	_
1	BASE HOUSING	1	PBT	COLOR : BLACK	_
符号 NO.	名 称 DESCRIPTION	個数 QTY.	材 料 MATERIAL	仕 上 FINISH	備 考 REMARKS

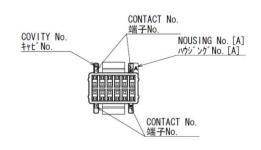
3. Connector A for Signal (Plug Side)

Part Number	DW3R012A
SJ Drawing	SJ112648









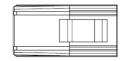


TABLE-1

CONTACT PART No.	SIZE	OUTER DIAMETER	REMARKS
DW1S04K4F1 (SJ111310)	AWG#22	φ1.5	SOCKET CONTACT

NOTE 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1. NOTE 2. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PRODUCT.

PRODUCT NAME: DW3R012B, DWG No. SJ112649
THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT.
PRODUCT NAME: DW3P002ZH1, DWG No. SJ112646

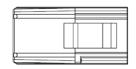
注1. 本製品はコンタケト別売り品であり、適用コンタケトは表1の通りである。 注2. 本製品は下記製品と極性キー位置違い品である。 製品名:DW3R012B,図番:SJ112649

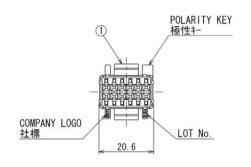
注3. 本製品は下記製品と組み合わせて使用する。 製品名:DW3P002ZH1、図番:SJ112646

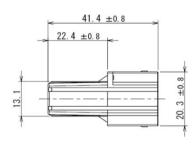
1	FIXED CONNECTOR SIGNAL HOUSING A	1	РВТ	COLOR : BLACK	_
符号	名 称	個数	材 料	仕 上	備 考
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH	REMARKS

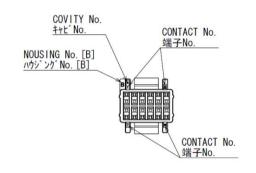
4. Connector B for Signal (Plug Side)

Part Number	DW3R012B
SJ Drawing	SJ112649









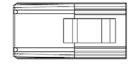


TABLE-1

CONTACT PART No.	SIZE	OUTER DIAMETER	REMARKS
DW1S04K4F1 (SJ111310)	AWG#22	φ1.5	SOCKET CONTACT

- NOTE 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1. NOTE 2. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PRODUCT.
- PRODUCT NAME: DW3R012A, DWG No. SJ112648
 THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3P002ZH1, DWG No. SJ112646
- 注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。 注2. 本製品は下記製品と極性+-位置違い品である。
- - 製品名:DW3R012A, 図番:SJ112648
- 本製品は下記製品と組み合わせて使用する。 製品名:DW3P002ZH1、図番:SJ112646

1	FIXED CONNECTOR SIGNAL HOUSING B	1	PBT	COLOR : BLACK	_
符 N(号 名 称 DESCRIPTION	個数 OTY	材 料 MATERIAL	仕 上 FINISH	備 考 REMARKS

5. Connector A for Signal (Receptacle Side)

Part Number	DW3P012A	
SJ Drawing	SJ112650	

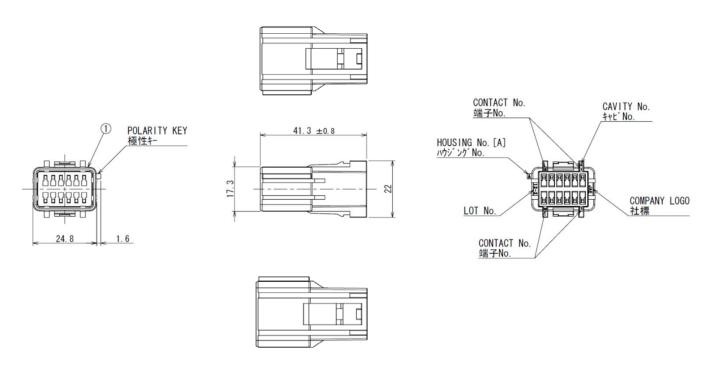


TABLE-1

CONTACT PART No.	SIZE	OUTER DIAMETER	LENGTH: A (FIG. 1)	REMARKS
DW3P04K4F1 (SJ112653)	AWG#22	φ1.5	20. 75	SIGNAL CONTACT
DW1P04K4F1 (SJ111311)	AWG#22	φ1.5	18. 25	SIGNAL CONTACT
DW1P04K4F2 (SJ111312)	AWG#22	φ1.5	16. 75	DETECTED CONTACT

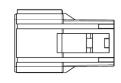
- CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3P012B, DWG No. SJ112651 THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3R002ZH1, DWG No. SJ112647 NOTE 3.

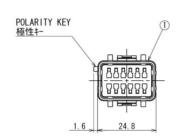
- 注1. 本製品はコンタケト別売り品であり、適用コンタケトは表1の通りである。 注2. 本製品は下記製品と極性キー位置違い品である。 製品名:DW3P012B,図番:SJ112651 注3. 本製品は下記製品と組み合わせて使用する。 製品名:DW3R002ZH1、図番:SJ112647

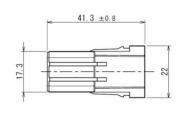
1	FLOATING CONNECTOR SIGNAL HOUSING A	1	РВТ	COLOR : BLACK	_
符号	名 称	個数	材 料	仕 上	備 考
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH	REMARKS

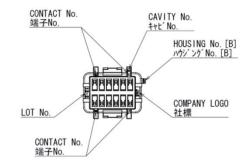
6. Connector B for Signal (Receptacle Side)

Part Number	DW3P012B
SJ Drawing	SJ112651









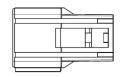


TABLE-1

CONTACT PART No.	SIZE	OUTER DIAMETER	LENGTH: A (FIG. 1)	REMARKS
DW3P04K4F1 (SJ112653)	AWG#22	φ1.5	20. 75	SIGNAL CONTACT
DW1P04K4F1 (SJ111311)	AWG#22	φ1.5	18. 25	SIGNAL CONTACT
DW1P04K4F2 (SJ111312)	AWG#22	φ1.5	16. 75	DETECTED CONTACT

- NOTE 1. CONTACTS ARE SOLD SEPARATELY. THE APPLICABLE CONTACTS ARE LISTED IN THE TABLE-1.

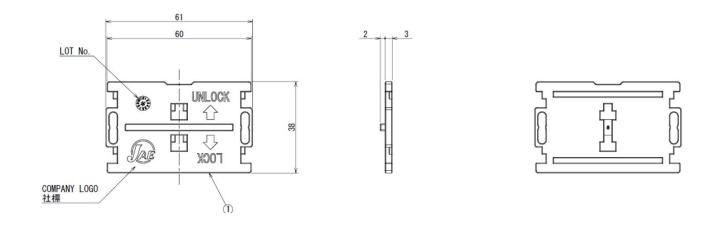
 NOTE 2. THE POSITION OF THE POLARITY KEY IS DIFFERENT COMPARED WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3P012A, DWG No. SJ112650

 NOTE 3. THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT.
- PRODUCT NAME: DW3R002ZH1, DWG No. SJ112647
- 注1. 本製品はコンタクト別売り品であり、適用コンタクトは表1の通りである。注2. 本製品は下記製品と極性キー位置違い品である。 製品名:DW3P012A, 図番:SJ112650
- 注3. 本製品は下記製品と組み合わせて使用する。 製品名:DW3R002ZH1、図番:SJ112647

1 1	FLOATING CONNECTOR SIGNAL HOUSING B	1	PBT	COLOR : BLACK	_
符号	名 称	個数	材 料	仕 上	備 考
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH	REMARKS

7. Bus Bar Cover

Part Number	DW3R002-CV
SJ Drawing	SJ112652



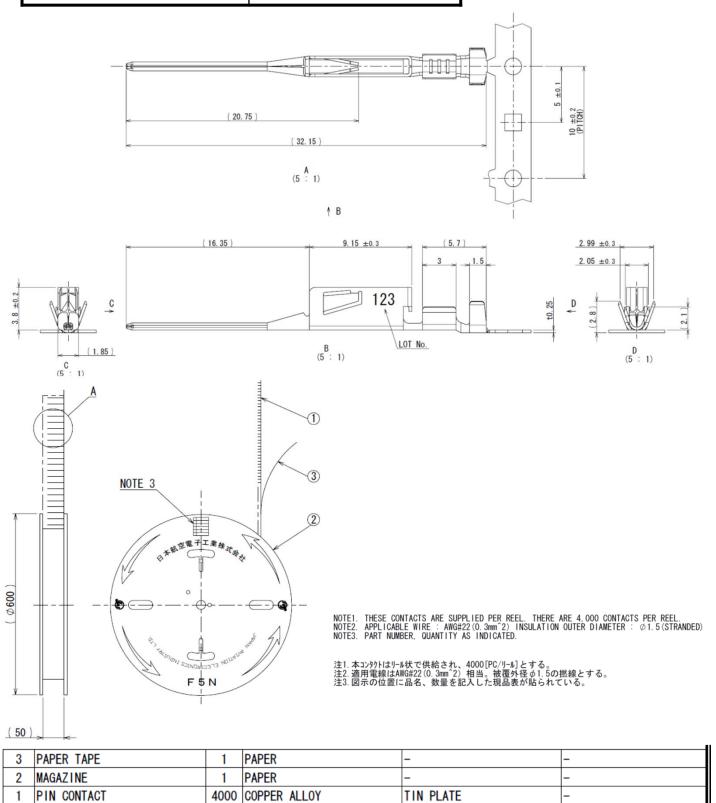
NOTE 1. THIS PRODUCT IS USED IN COMBINATION WITH THE FOLLOWING PRODUCT. PRODUCT NAME: DW3R002ZH1, DWG No. SJ112647

注1. 本製品は下記製品と組み合わせて使用する。 製品名: DW3R002ZH1、図番: SJ112647

1	BUS BAR COVER	1	PBT	COLOR : BLACK	_
符号	名 称	個数	材 料	仕 上	備 考
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH	REMARKS

8. Pin Contact for Signal (for Receptacle)

Part Number	DW3P04K4F1
SJ Drawing	SJ112653

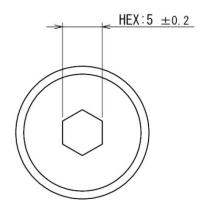


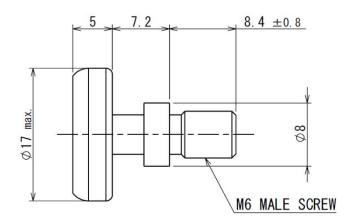
材 料 MATERIAL 仕 上 FINISH

名 称 DESCRIPTION 備 考 REMARKS

9. Shoulder Bolt

Part Number	D250-50632
SJ Drawing	SJ112654





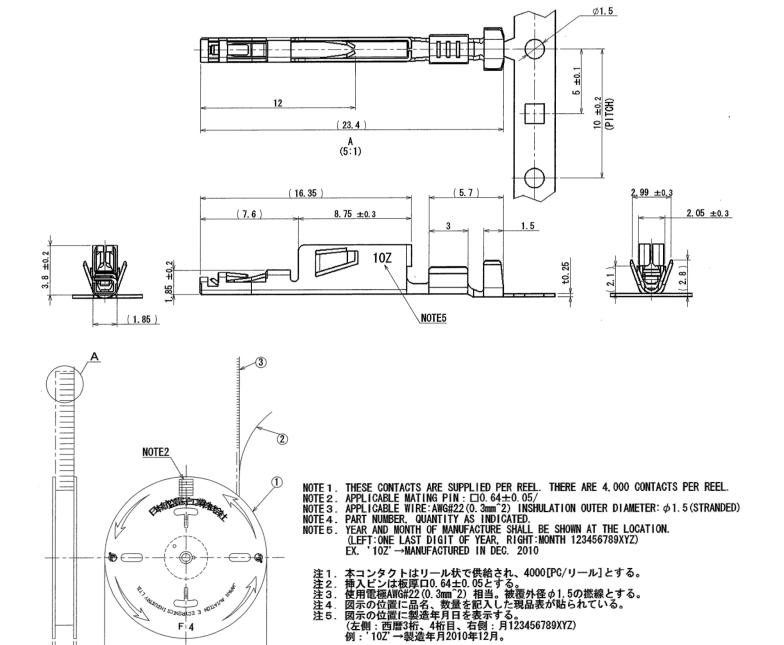
NOTE 1. TIGHTEN SHOULDER BOLT BY $5.2[N \cdot m] \pm 0.5[N \cdot m]$.

注1. ショルダーボルト締め付けトルク: 5.2[N·m]±0.5[N·m]

1	SHOULDER BOLT	1	STEEL	TRIVALENT CHROMATE	_
符号	名 称	個数	材 料	仕 上	備 考
NO.	DESCRIPTION	QTY.	MATERIAL	FINISH	REMARKS

10. Socket Contact for Signal (for Plug)

Part Number	DW1S04K4F1
SJ Drawing	SJ111310



3	SOCKET CONTACT	4000	COPPER ALLOY	TIN PLATE	_
2	PAPER TAPE	1	PAPER	-	
1	MAGAZINE	1	PAPER	_	
符号	名 称 DESCRIPTION	個数 OTY	材 料 MATERIAL	仕上 FINISH	備 考 RFNARKS

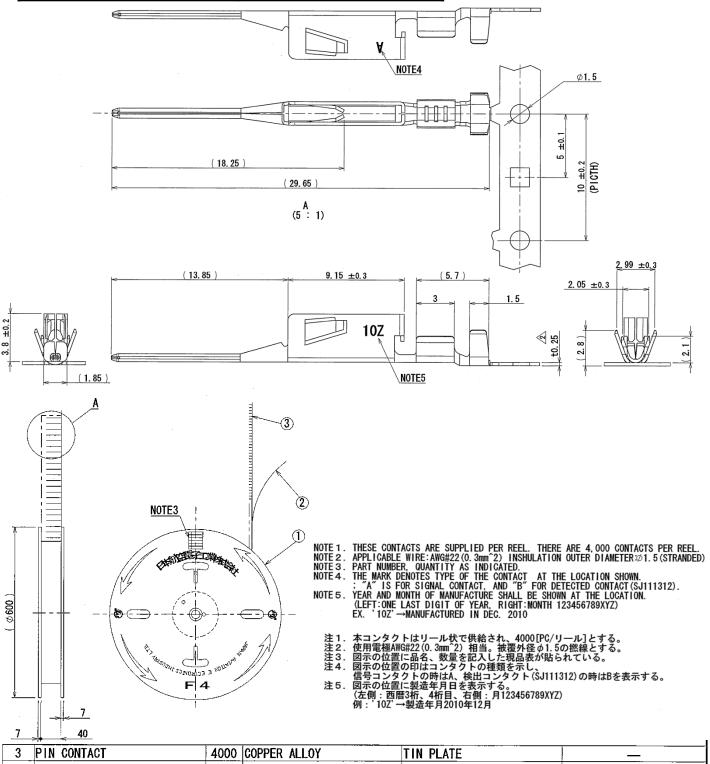
注1. 注2. 注3. 注4. 注5.

40

(**Ø600**

11. Pin Contact Long for Signal (for Receptacle)

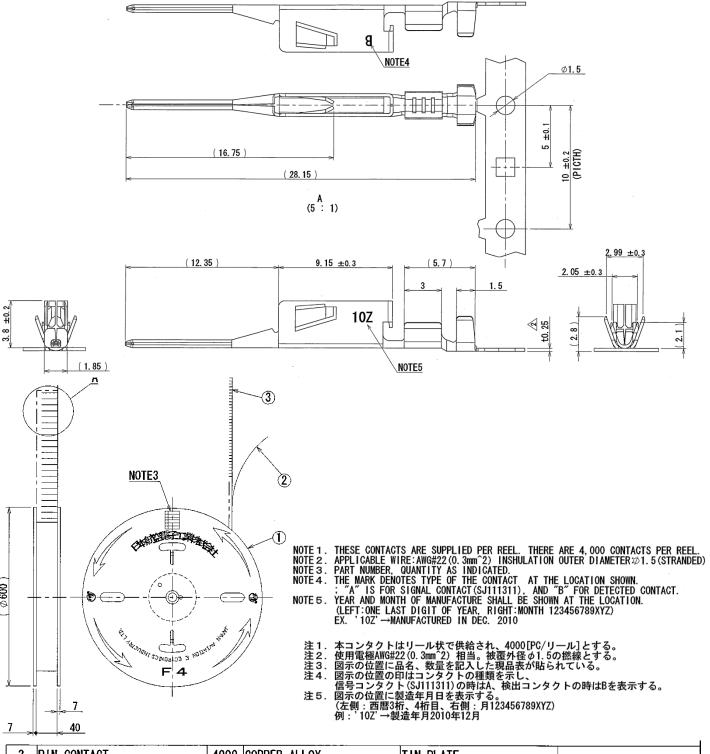
Part Number	DW1P04K4F1
SJ Drawing	SJ111311



3	PIN CONTACT	4000	COPPER ALLOY	TIN PLATE	
2	PAPER TAPE	1	PAPER	_	_
1	MAGAZINE	1	PAPER	_	_
符号 NO.	名 称 DESCRIPTION	個数 OTY.	材料 MATERIAL	仕上 FINISH	備 考 REMARKS

12. Pin Contact Short for Signal (for Receptacle)

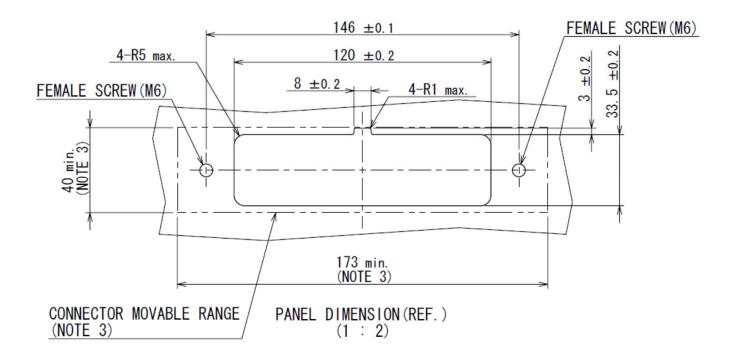
Part Number	DW1P04K4F2
SJ Drawing	SJ111312



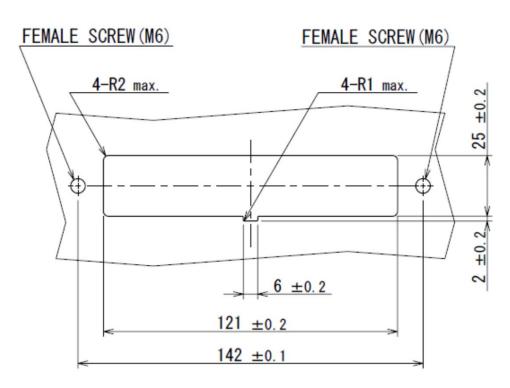
3	PIN CONTACT	4000	COPPER ALLOY	TIN PLATE	_
2	PAPER TAPE	1	PAPER		_
1	MAGAZINE	1	PAPER		
符号 NO.	名 DESCRIPTION	個数 QTY.	村 料 MATERIAL	仕上 FINISH	備 考 REMARKS

Applicable Board Dimensions (for reference)

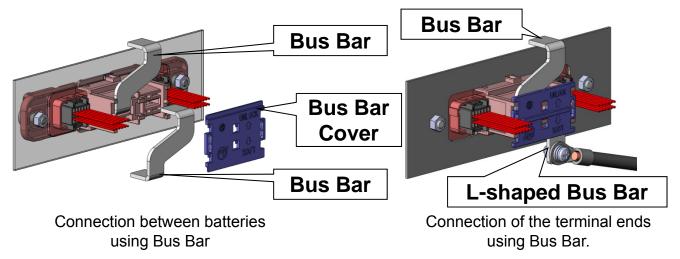
Receptacle Side



Plug Side

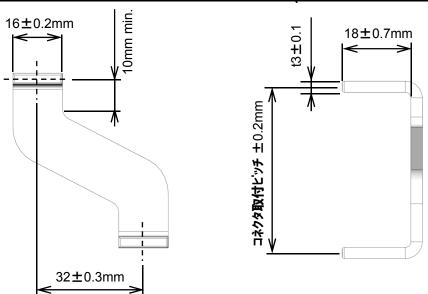


Connection Diagram of Receptacle Side Bus Bar



Note: By applying bus bar cover electrical shock will be prevented. Also, noise countermeasure for signal cable is taken in to consideration.

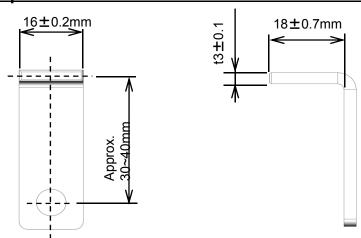
Bus Bar Outer Dimensions (for reference)



 Material: pure copper system material

Surface Finish: Ag plating

L-shaped Bus Bar Outer Dimensions (for reference)



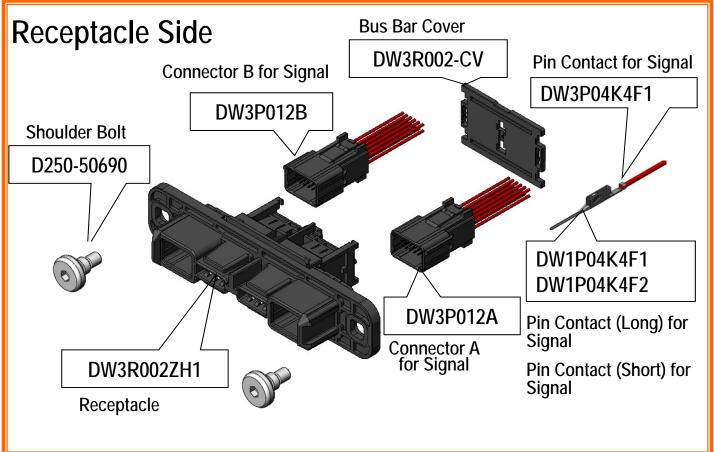
 Material: pure copper system material

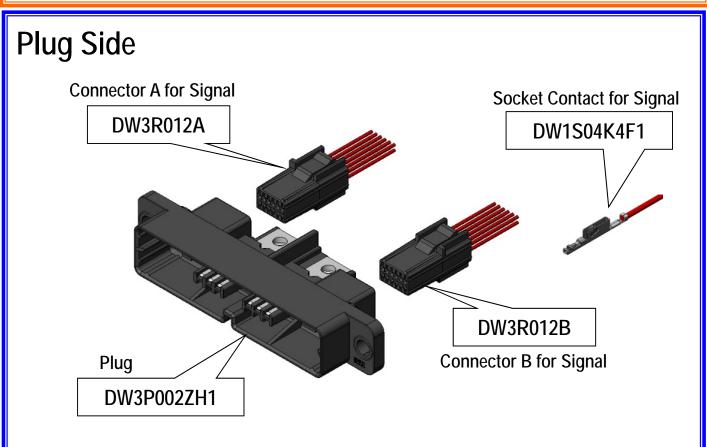
Surface Finish: Ag plating

^{*}Above Dimensions are for reference, please contact us for more information on bus bar.

DW3 Series

*Contact is Reel Part Number





Technical Documents

	Technical Document No. (Document Content)		
Product Drawings	SJ112646 (DW3 Plug)		
	SJ112647 (DW3 Receptacle)		
	SJ112648 (DW3 Connector A for Signal Plug Side)		
	SJ112649 (DW3 Connector B for Signal Plug Side)		
	SJ112650 (DW3 Connector A for Signal Receptacle Side)		
	SJ112651 (DW3 Connector B for Signal Receptacle Side)		
	SJ112652 (Bus Bar Cover)		
	SJ112654 (Shoulder Bolt)		
	SJ112653 (DW3 Pin Contact for Signal Receptacle Side)		
	SJ111310 (DW1 Socket Contact for Signal Plug Side)		
	SJ111311 (DW1 Pin Contact Long for Signal Receptacle Side)		
	SJ111312 (DW1 Pin Contact Short for Signal Receptacle Side)		
Specifications	JACS-30260		
Handling Instructions	JAHL-30260		
Crimp Applicator	T703488 (for semi-automatic crimping machine)		
Handling Instructions	* Please contact us regarding automatic crimp tool.		
Hand Crimp Tool	T700315		
Handling Instructions			

Notice:

- 1. The values specified in this brochure are only for reference. The products and their specifications are subject to change without notice. Contact our sales staff for further information before considering or ordering any of our products. For purchase, a product specification must be agreed upon.
- 2. Users are requested to provide protection circuits and redundancy circuits to ensure safety of the equipment, and sufficiently review the suitability of JAE's products to the equipment.
- 3. The products presented in this brochure are designed for the uses recommended below. We strongly suggest you contact our sales staff when considering use of any of the products in any other way than the recommended applications or for a specific use that requires an extremely high reliability.
- (1) Applications that require consultation:
- (i) Please contact us if you are considering use involving a quality assurance program that you specify or that is peculiar to the industry, such as:

Automotive electrical components, train control, telecommunications devices (mainline), traffic light control, electric power, combustion control, fire prevention or security systems, disaster prevention equipment, etc.

(ii) We may separately give you our support with a quality assurance program that

you specify, when you think of a use such as:

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

(2) Recommended applications include:

Computers, office appliances, telecommunications devices (terminals, mobile units), measuring equipment, audiovisual equipment, home electric appliances, factory automation equipment, etc

Japan Aviation Electronics Industry, Limited

Product Marketing Division

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