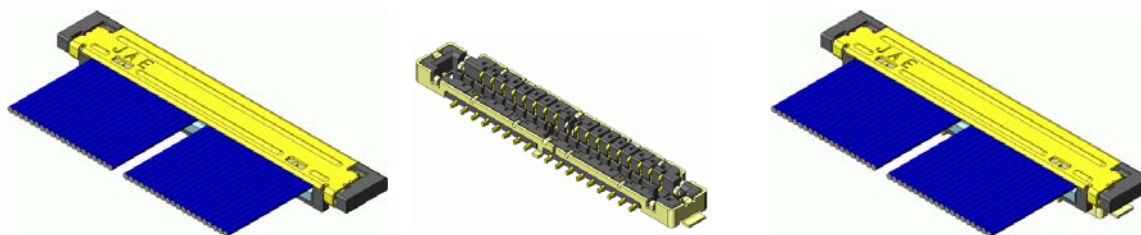


**NEW**  


Fine-Coax Wire Connector for Small Portable Devices CONNECTOR

**FI-JW Series**MB-0181-2  
October 2008**RoHS Compliant**

The FI-JW Series is a compact, low profile connector with a plug that can pass through a very small diameter hinge after harness assembly.

**Features**

- Plug side can pass through a 3.7mm dia. hinge after harness assembly (40 pos., 42 AWG)
- Mated dimensions of 3.2mm depth, 17.3mm width (40 pos.), 1.65mm height
- Stable connection by a secure 0.35 mm effective contact length.
- Enhanced connection stability with gold plated ground contact points on plug and receptacle
- Mis-mating prevention structure
- Enhanced noise resistance characteristic with 6 ground contact points between plug and receptacle
- Applicable wire: compatible with 42 and 44 AWG fine-coaxial wire
- Supports automated mounting with embossed tape for receptacle
- Solder migration prevention structure with Ni barrier on receptacle

General Specifications
------------------------

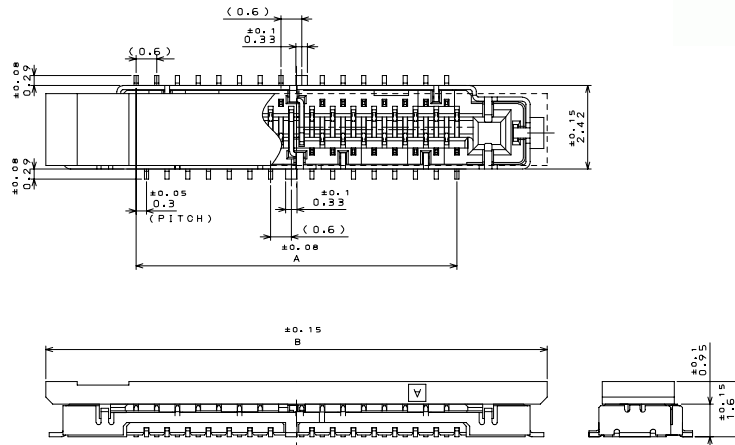
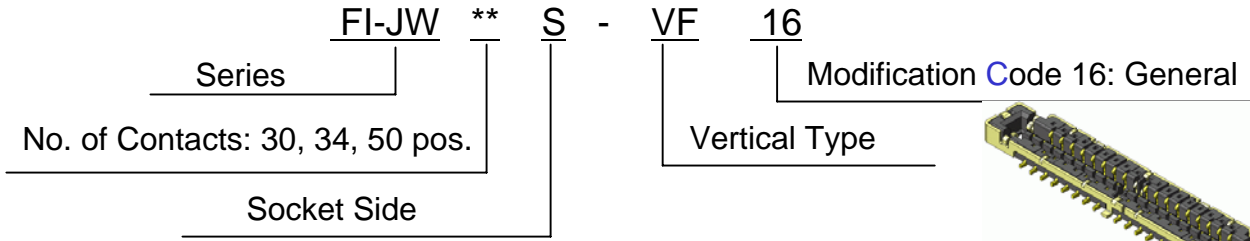
- |   |  |
|---|--|
| ■No. of Contacts: 30, 34, 40, 50 pos.               | ■Rated Current: AC, DC each 0.25A per pos.                     |
| ■Pitch: 0.3mm                                       | ■Rated Voltage: AC, DC each 50V per pos.                       |
| ■Operating Temperature:<br>-40 Deg. C to +85 Deg. C | ■Insulation Resistance: 100M ohm min.                          |
| ■Contact Resistance:<br>40m ohm max. (initial)      | ■Dielectric Withstanding Voltage :<br>AC 100Vr. m.s per minute |
| ■Durability: 30 mating cycles                       | ■Applicable Wire: 42 to 44 AWG                                 |

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

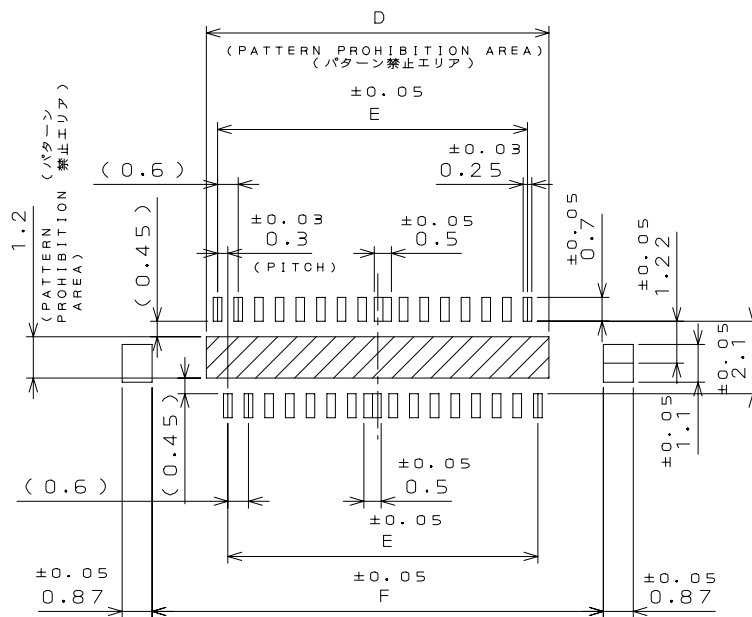
Component	Material / Finish
Receptacle (FI-JW**S-VF16)	
Contact	Copper alloy / Contact area Au plating over Ni, Terminal area Au flash plating over Ni
Shell	Copper alloy / Contact area Au plating over Ni
Insulator	Heat resistant plastic UL94V-0
Adsorption Insulator	Heat resistant plastic UL94V-0
Plug (FI-JW**C)	
Contact	Copper alloy / Contact area Au plating over Ni, Terminal area Au flash plating over Ni
Insulator	Heat resistant plastic UL94V-0
Plug / Base Ground Bar (FI-JW**C-BGB-**)	
Base Ground Bar	Stainless steel / Contact area Au plating over Ni Terminal area Sn plating over Ni
Plug / Cover Ground Bar (FI-JW**C-CGB-**)	
Cover Ground Bar	Copper alloy / Sn plating over Ni
Plug / Cover Shell (FI-JW**C-SH1)	
Cover shell	Stainless steel / Au flash plating over Ni

Ordering Information

Receptacle Side  
Individual Product  
(30, 34, 50 pos. : SJ106817)



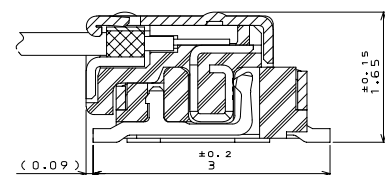
Unit: mm



Recommended dimensions of board

Dimensions

NO. OF CONTACTS 芯数	DIMENSIONS 寸法					
	A	B	C	D	E	F
30	9.3	14.53	13.54	9.95	9	13.1
34	10.5	15.73	14.74	11.15	10.2	14.3
50	15.3	20.53	19.54	15.95	15	19.1

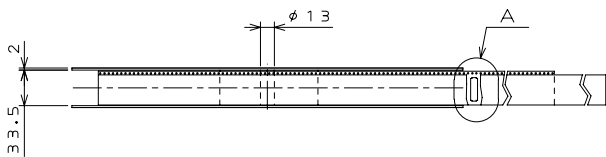
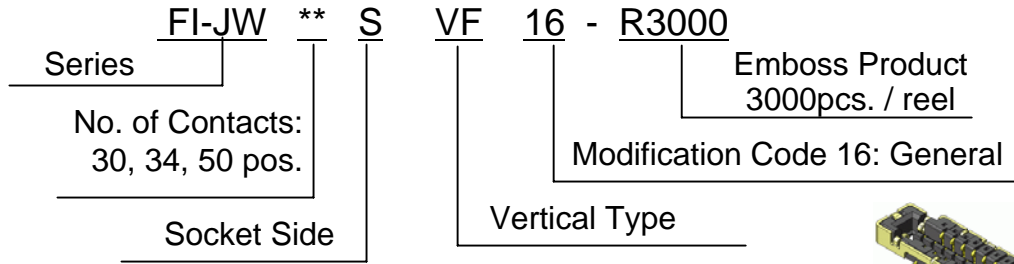


Drawing when mated  
(for reference)



Ordering Information

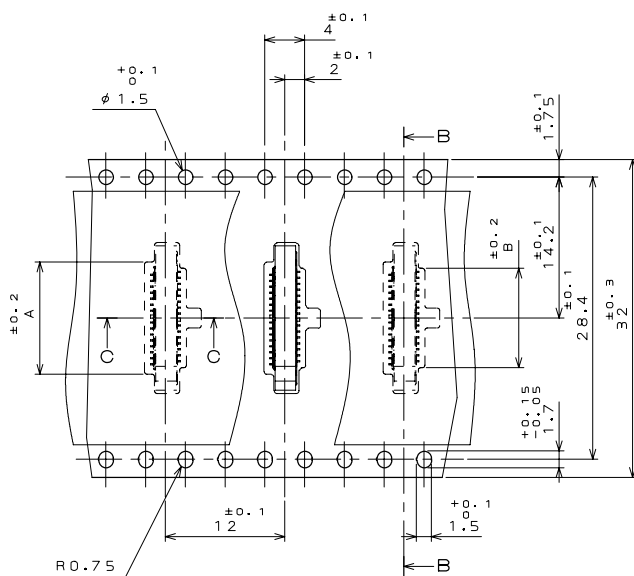
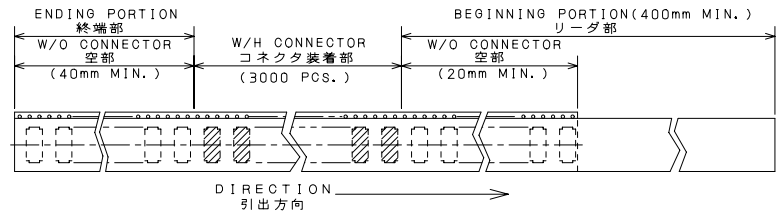
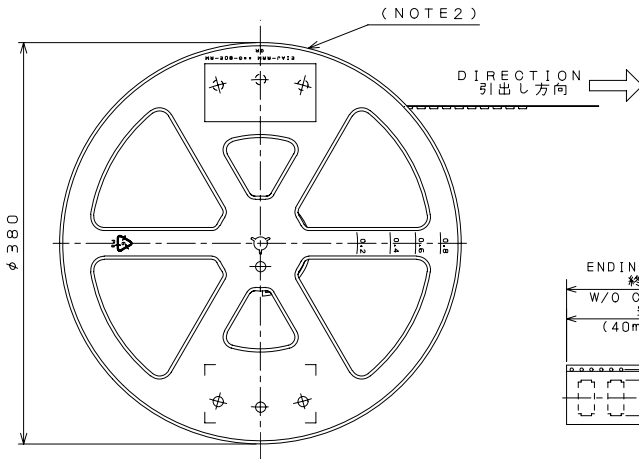
Receptacle Side  
Emboss Product  
(30, 34, 50 pos. : SJ106818)



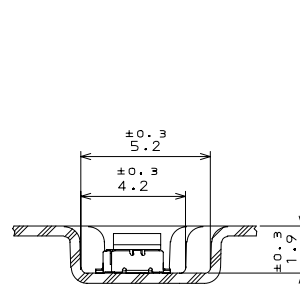
Unit: mm

Dimensions

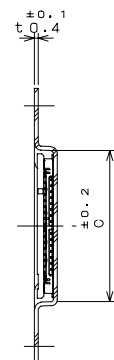
DIMENSIONS 寸法	A	B	C
NO. OF CONTACTS 芯数			
30	11.3	10	15.2
34	12.5	11.2	16.4
50	17.3	16	21.2



DETAIL A  
(SCALE 2:1)



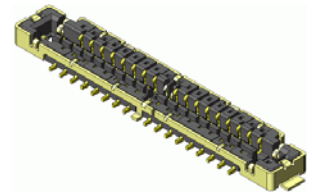
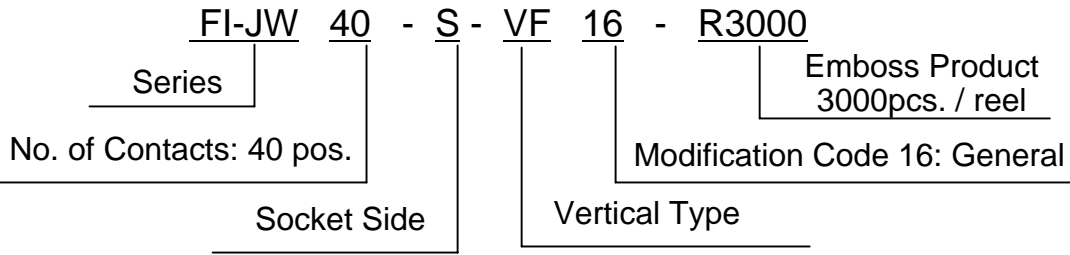
SECT. C-C  
(SCALE 5:1)



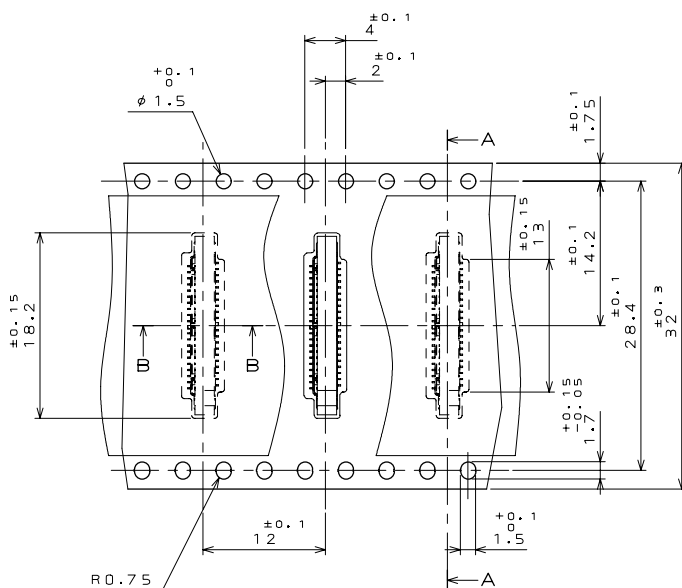
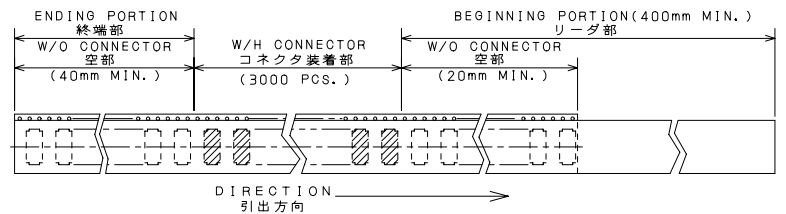
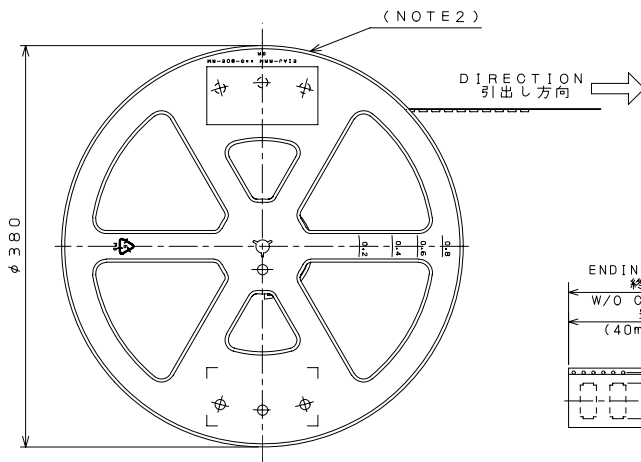
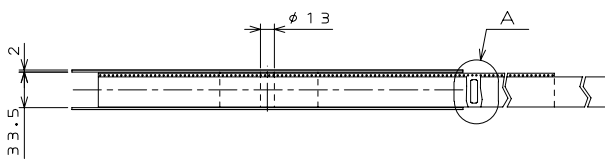
SECT. B-B  
(SCALE 2:1)

Ordering Information

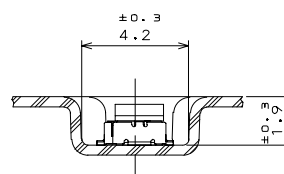
Receptacle Side  
Emboss Product  
(40 pos. : SJ106320)



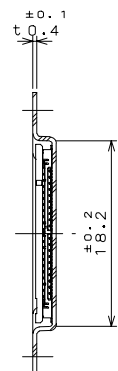
Unit: mm



DETAIL A  
(SCALE 2:1)



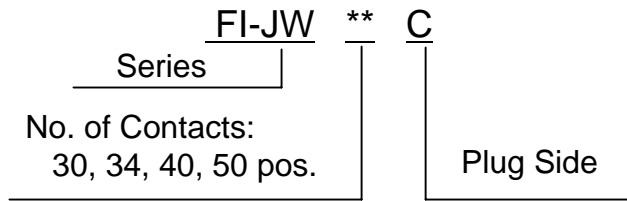
SECT. C-C  
(SCALE 5:1)



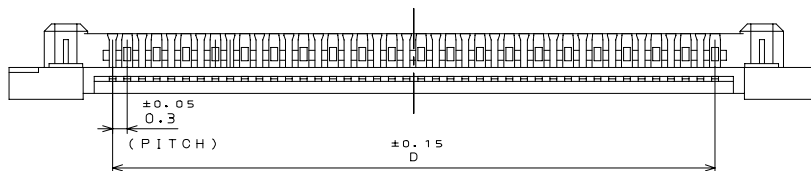
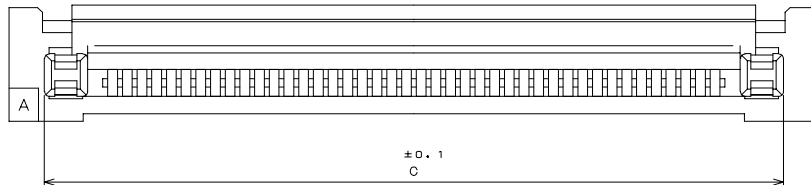
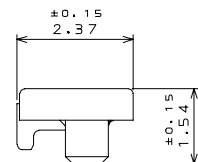
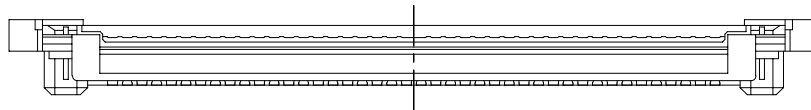
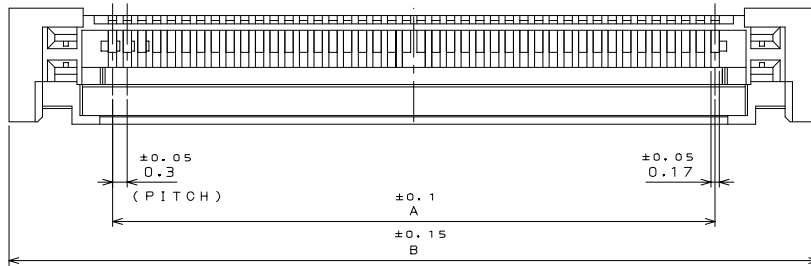
SECT. B-B  
(SCALE 2:1)

Ordering Information

Plug Side, Insulator (SJ106335)



Unit: mm



Dimensions

No. OF CONTACTS (N)	30	34	40	50
A	9.3	10.5	12.3	15.3
B	13.53	14.73	16.53	19.53
C	12.09	13.29	15.09	18.09
D	9.3	10.5	12.3	15.3

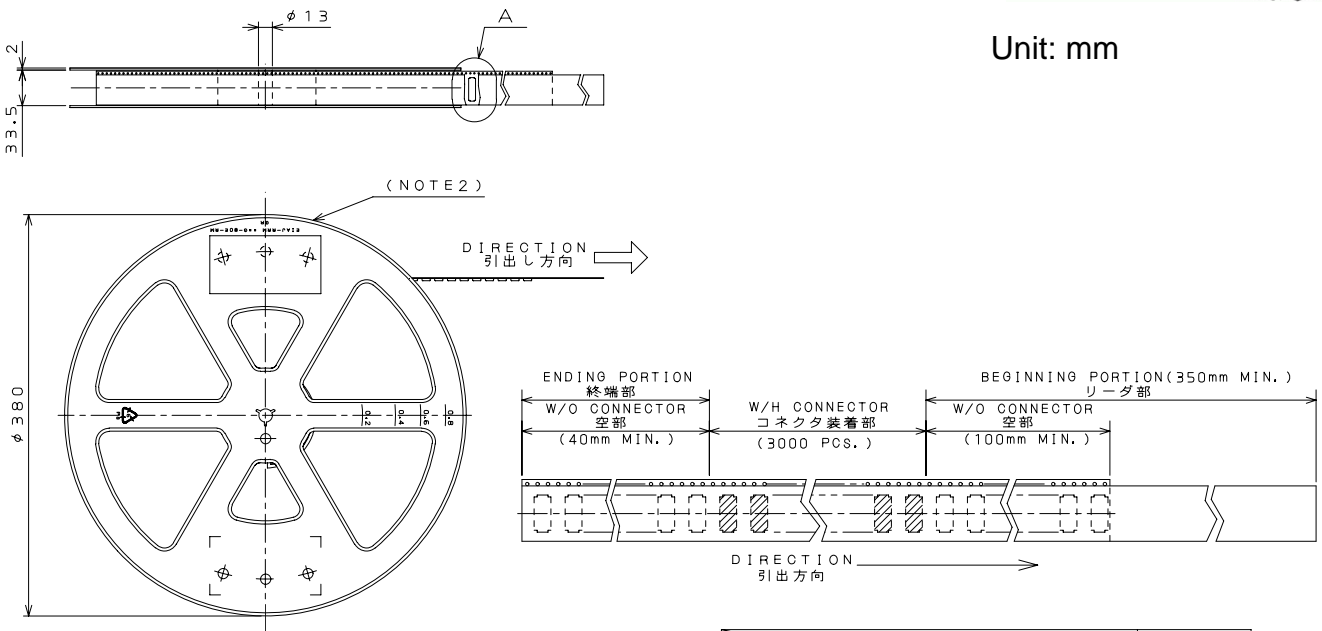
Ordering Information

**Plug Side, Insulator  
Emboss Product (SJ10336)**

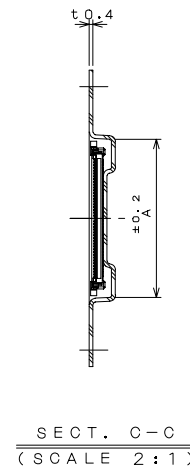
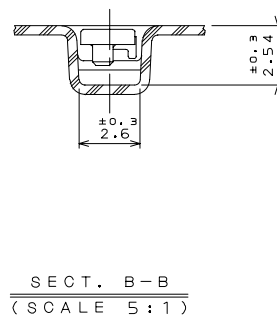
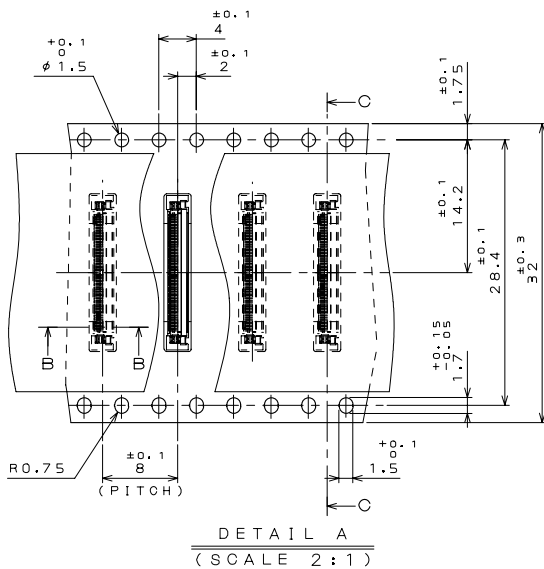
**FI-JW**    **\*\***    **C - R3000**  
 Series                      Emboss Product  
 No. of Contacts:            3000pcs. / reel  
 30, 34, 40, 50 pos.            Plug Side



Unit: mm



NO. OF CONTACTS 芯数	DIMENSIONS 寸法	A
30		13.9
34		15.1
40		16.9
50		19.9







Ordering Information

Plug Side, Base Ground Bar  
(SJ106358)

FI-JW \*\* C - BGB - S - 6000

Series

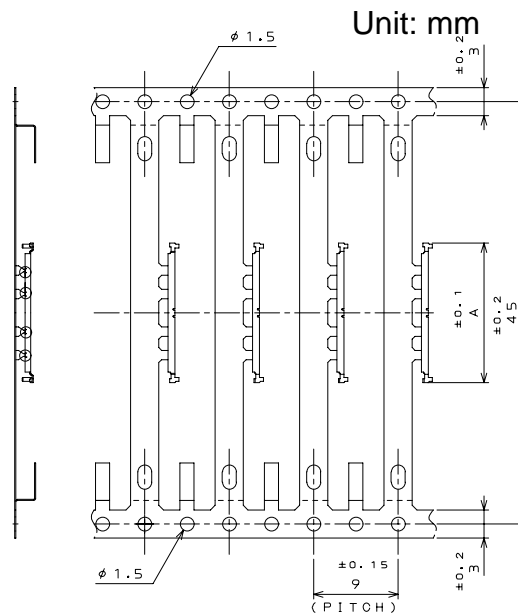
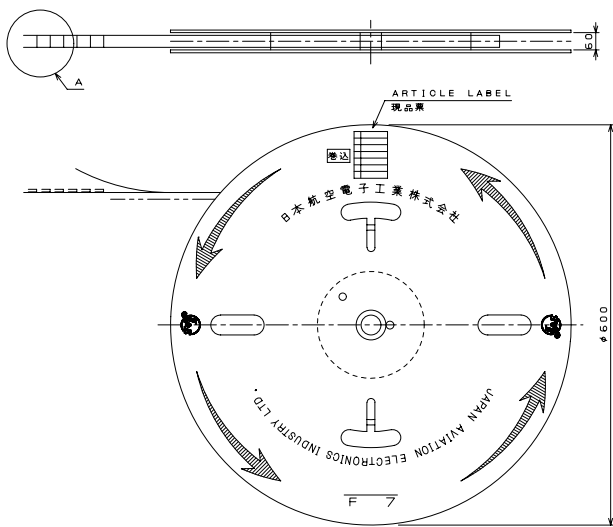
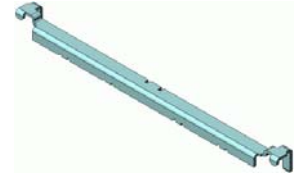
6000pcs. / reel

No. of Contacts:  
30, 35, 40, 50 pos.

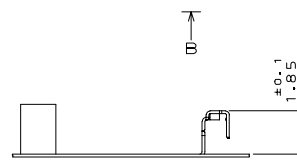
Modification Code S: General

Base Ground Bar

Plug Side



DETAIL A  
(SCALE 2:1)



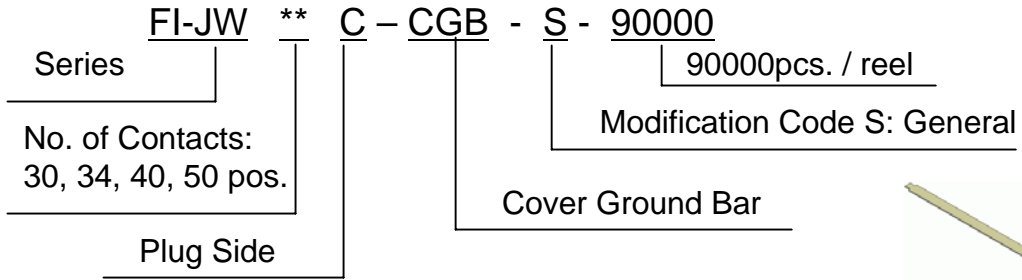
VIEW B  
(SCALE 2:1)

Dimensions

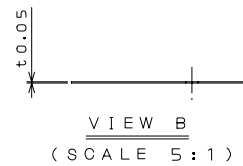
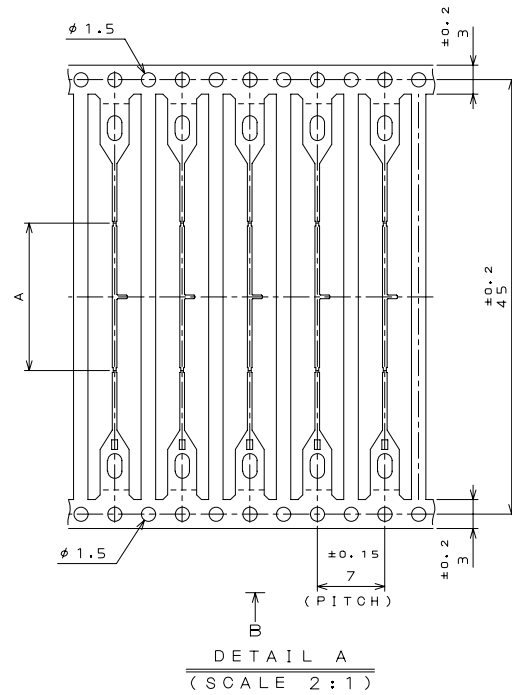
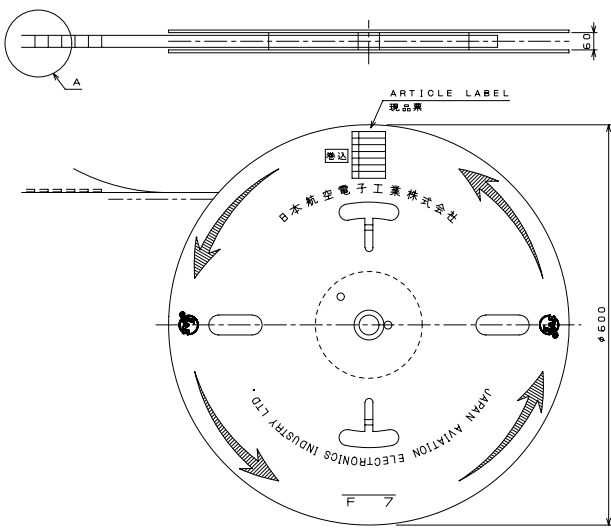
NO. OF CONTACTS 芯数	DIMENSIONS 寸法	A
30		11.86
34		13.06
40		14.86
50		17.86

Ordering Information

Plug Side, Cover Ground Bar (SJ106360)



Unit: mm

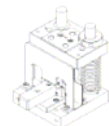
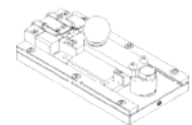
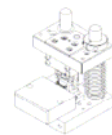


Dimensions

NO. OF CONTACTS 芯数	DIMENSIONS 寸法	A
30		12.26
34		13.46
40		15.26
50		18.26

Related Documents
-------------------

- Specifications (JACS): JACS- 10345-5
- Harness Assembly Handling Instructions (JAHL): JAHL-10345-1
- Connector Handling Instructions (JAHL): JAHL-10345-10
- Connector Extraction Tool  
     SJ Drawing: SJ713199-00  
     P/N: SC-FIJW-2-K  
     Tool Handling Instruction: T713199
- Plug Shell Press-in Tool  
     P/N: WT-FIJW-2(B)-\*\*  
     Tool Handling Instruction T714230
- Plug Shell Clamping Tool  
     P/N: WT-FIJW-5(B)-\*\*  
     Tool Handling Instruction: T714233
- Plug Ground Bar Cutting Tool  
     P/N: WT-FIJW-10-\*\*  
     Tool Handling Instruction: T714261
- Plug Ground Bar Press-in Tool  
     P/N: WT-FIJW-1-\*\*  
     Tool Handling Instruction: T714299



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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.