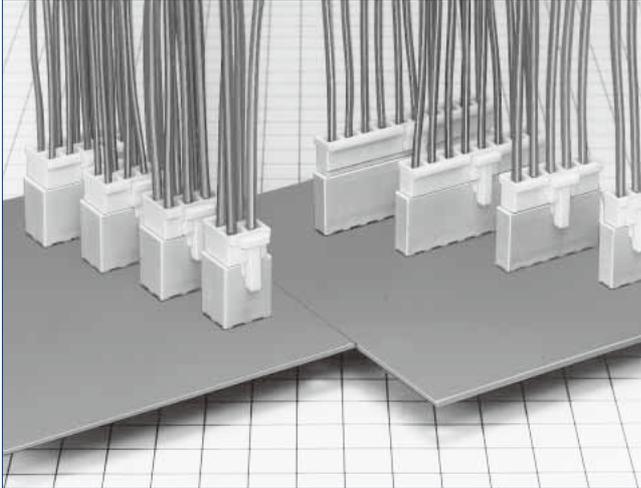


5mm Pitch Miniature Potting Connectors for Secondary Power Supply

DF5 Series



Single row type

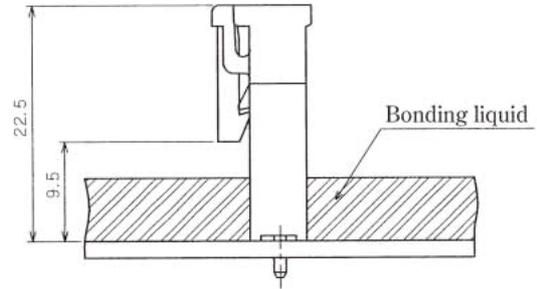


Fig.1-1

■ Features

1. Potting Product

This connector is capable of potting 9mm maximum, and 22.5mm mounting height is a low profile. (Fig.1)

2. Prevent Mis-insertion

When the socket and pin header are mated, this connector is equipped with a mechanism to prevent reverse insertion or dissimilar contact insertion.

3. Means to Prevent Solder Cracks

The pin header employs glass enforced resin, and takes countermeasures to prevent solder cracks due to heat shrinkage.

4. Prevent Reverse Insertion in Printed Board

Boss is added to the pin header, and prevents reverse insertion in the printed board.

5. Full Lock Mechanism

The outer lock system employs full lock mechanism.

6. Current Capacity of 8A

Power can be supplied at 8A maximum. Specification will change according to applicable cable, number of contacts, number of rows. For further information, refer to product specifications as listed on next page.

7. UL and C-UL Certified

8. Glow Wire Compliance (Compliant with IEC 60695-2-11)

Double row type

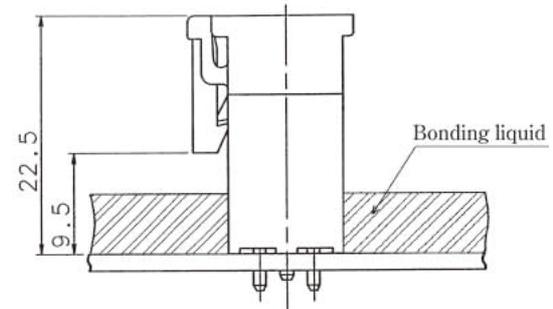


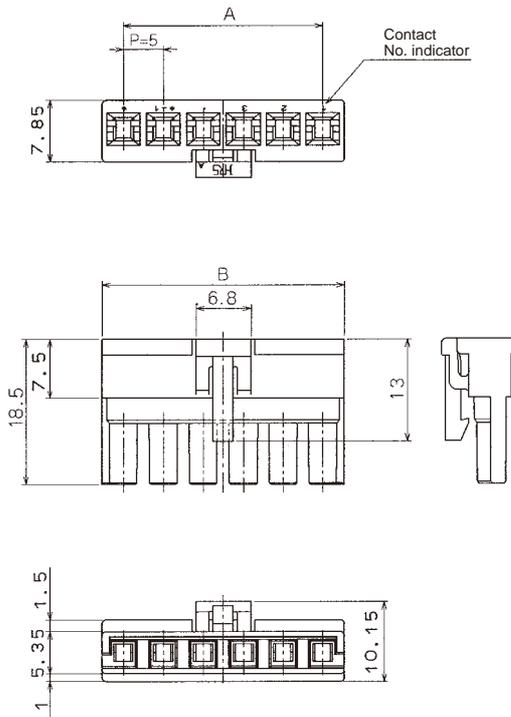
Fig.1-2

Single Row Socket



Unit : mm

Part No.	HRS No.	No. of Contacts	A	B	RoHS2
DF5A- 2S-5C	676-0007-8	2	5.0	10.5	YES
DF5A- 3S-5C	676-0008-0	3	10.0	15.5	
DF5A- 4S-5C	676-0009-3	4	15.0	20.5	
DF5A- 5S-5C	676-0010-2	5	20.0	25.5	
DF5A- 6S-5C	676-0011-5	6	25.0	30.5	
DF5A- 8S-5C	676-0013-0	8	35.0	40.5	



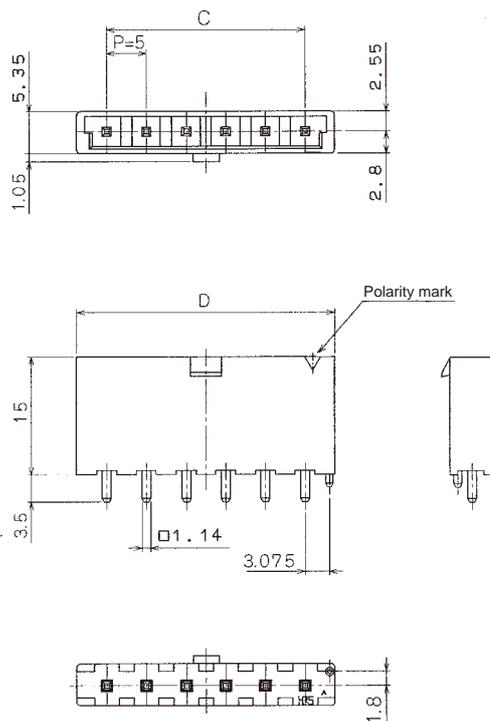
Note : A packaging quantity is delivered by the bag unit (100 pcs.).

Single Row Pin Header



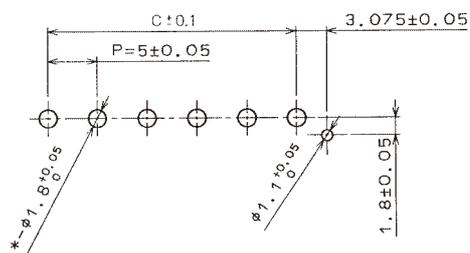
Unit : mm

Part No.	HRS No.	No. of Contacts	C	D	RoHS2
DF5A- 2P-5DSA(35)	676-0016-9 35	2	5.0	12.5	YES
DF5A- 3P-5DSA(35)	676-0017-1 35	3	10.0	17.5	
DF5A- 4P-5DSA(35)	676-0018-4 35	4	15.0	22.5	
DF5A- 5P-5DSA(35)	676-0019-7 35	5	20.0	27.5	
DF5A- 6P-5DSA(35)	676-0020-6 35	6	25.0	32.5	
DF5A- 8P-5DSA(35)	676-0022-1 35	8	35.0	42.5	

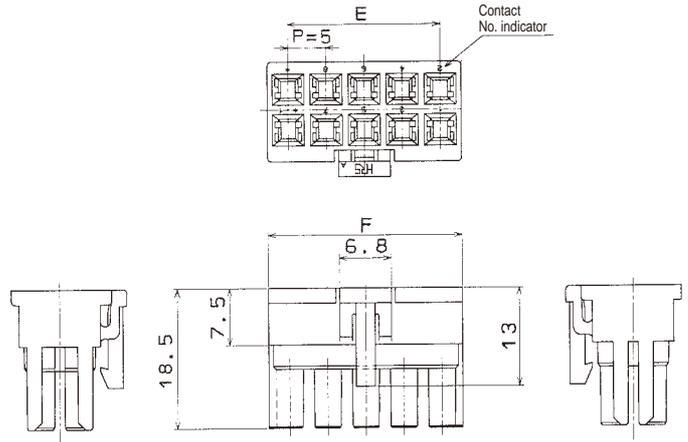
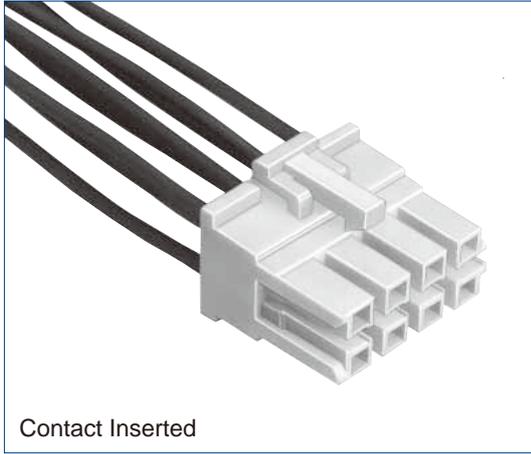


Note : A packaging quantity is delivered by the bag unit (100 pcs.).

PCB Mounting Pattern (Board thickness = 1.6±0.1)

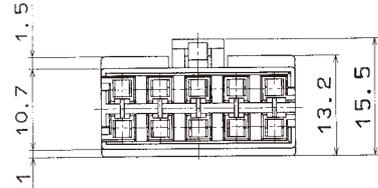


Double Row Socket



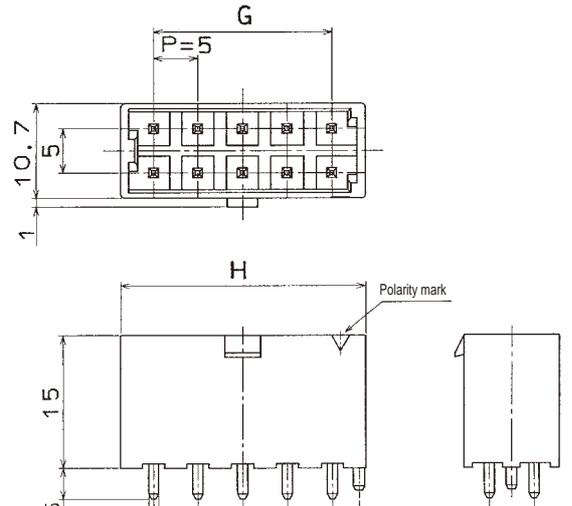
Unit : mm

Part No.	HRS No.	No. of Contacts	E	F	RoHS2
DF5A- 4DS-5C	676-0025-0	4	5.0	10.5	YES
DF5A- 6DS-5C	676-0026-2	6	10.0	15.5	
DF5A- 8DS-5C	676-0027-5	8	15.0	20.5	
DF5A-10DS-5C	676-0028-8	10	20.0	25.5	
DF5A-12DS-5C	676-0036-6	12	25.0	30.5	



Note : A packaging quantity is delivered by the bag unit (100 pcs.).

Double Row Pin Header

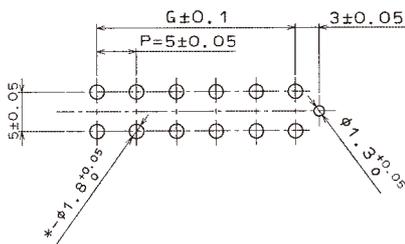


Unit : mm

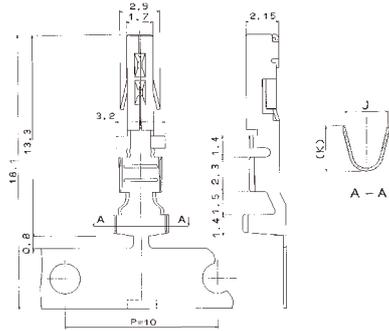
Part No.	HRS No.	No. of Contacts	G	H	RoHS2
DF5A- 4DP-5DSA(35)	676-0029-0 35	4	5.0	12.5	YES
DF5A- 6DP-5DSA(35)	676-0030-0 35	6	10.0	17.5	
DF5A- 8DP-5DSA(35)	676-0031-2 35	8	15.0	22.5	
DF5A-10DP-5DSA(35)	676-0032-5 35	10	20.0	27.5	
DF5A-12DP-5DSA(35)	676-0033-8 35	12	25.0	32.5	

Note : A packaging quantity is delivered by the bag unit (100 pcs.).

PCB Mounting Pattern (Board thickness = 1.6±0.1)



◆ Socket Crimping Contact



Unit : mm

Part No.	HRS No.	Applicable Cable			Packaging	J	K	RoHS2
		ULStyle	Jacket Diameter	Wire Size Stranded Wire Conductor				
DF5-1822SCF	676-0001-1	1007	φ1.5 to 2.2mm	18 AWG 43/0.18mm 20 AWG 21/0.18mm 22 AWG 17/0.16mm	5,000 / reel	2.8	3	Yes
DF5-1822SC	676-0002-4	1007	φ2.1mm φ1.8mm φ1.6mm	18 AWG 43/0.18mm 20 AWG 21/0.18mm 22 AWG 17/0.16mm	100 / pack			
DF5A-1822SCF	676-0003-7	1015	φ2.2 to 3.2mm	18 AWG 43/0.18mm 20 AWG 21/0.18mm 22 AWG 17/0.16mm	5,000 / reel			
DF5A-1822SC	676-0004-0	1015	φ2.9mm φ2.6mm φ2.4mm	18 AWG 43/0.18mm 20 AWG 21/0.18mm 22 AWG 17/0.16mm	100 / pack			

Note 1 : Applicable wire with tin plated solid soft conductor.

Note 2 : When using other than the recommended wire, contact your nearest Hirose representative.

Note 3 : Strip length : 3.0 to 4.0mm

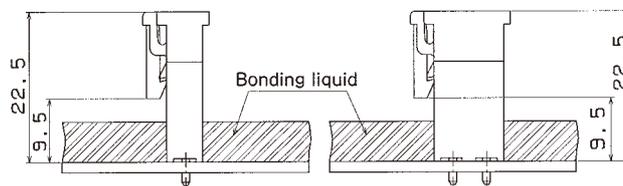
◆ Applicable Crimping Tools

Type	Item	Part No.	HRS No.	Applicable Contact
Auto- matic	Press unit	CM-105C	901-0001-0	_____
	Applicator	AP105-DF5-1822S	901-4542-5	DF5-1822SCF
		AP105-DF5A-1822S	901-4546-6	DF5A-1822SCF
Manual	Manual crimping tool	DF5-1822/CR-HT	550-0264-0	DF5-1822SC
		DF5A-1822/CR-HT	550-0265-2	DF5A-1822SC
—	Extraction tool	RP13-PC-TP	150-0021-5	DF5/DF5A-1822SCF

Note 1 : If any trouble has been caused due to other tools, which are not designated by Hirose, Hirose won't guarantees any product.

Note 2 : For the crimping process, refer to "crimping quality standards" and "crimping condition".

◆ Application Pattern



◆ Precautions

1. Recommended soldering condition	Flow : 260°C for 10 seconds Manual soldering : 350°C for 3 seconds
2. Cleaning condition	Refer to the "Wire-to-Board Connector Guidelines : ETAD-H1023-00"
3. Connecting condition	Refer to the "Wire-to-Board Connector Guidelines : ETAD-H1023-00"
4. Cautions	■The color phase of this product may be slightly differ from that of the formed product according to the manufacturing lot, and consequent storage condition, however, the difference affects no performance.
5. Precautions	Refer to the "Wire-to-Board Connector Guidelines : ETAD-H1023-00"

