

		DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△						△					
△						△					
APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE	- 3 5 °C TO 8 5 °C(NOTE1)				STORAGE TEMPERATURE RANGE	- 1 0 °C TO 6 0 °C				
	VOLTAGE	3 0 V A C				APPLICABLE CONNECTOR	DF30*-DS-0. 4V (**)				
	CURRENT	0. 3 A									
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS			QT	AT	
CONSTRUCTION											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.			X	X	
MARKING		CONFIRMED VISUALLY.							X	X	
ELECTRICAL CHARACTERISTICS											
CONTACT RESISTANCE		1 0 0 mA (DC OR 1000 Hz).				1 0 0 mΩ MAX.			X	—	
INSULATION RESISTANCE		1 0 0 V DC.				5 0 MΩ MIN.			X	—	
VOLTAGE PROOF		1 0 0 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.			X	—	
MECHANICAL CHARACTERISTICS											
MECHANICAL OPERATION		5 0 TIMES INSERTIONS AND EXTRACTIONS.				① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	—	
VIBRATION		FREQUENCY 1 0 TO 5 5 Hz, SINGLE AMPLITUDE 0. 7 5 mm, 1 0 CYCLES OF EACH 3 AXIAL DIRECTION FOR 5 min.				① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	—	
SHOCK		4 9 0 m/s ² DURATION OF PULSE 1 1 ms AT 3 TIMES FOR 3 DIRECTIONS.				① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	—	
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT (STEADY STATE)		EXPOSED AT 4 0 ± 2 °C, 9 0 TO 9 5 %, 9 6 h.				① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② INSULATION RESISTANCE: 2 5 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	—	
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55→ 5 TO 35→85→ 5 TO 35 °C TIME 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.				① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② INSULATION RESISTANCE: 5 0 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			X	—	
CORROSION SALT MIST		EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. (TEST STANDARD:IEC60068)				① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② NO HEAVY CORROSION.			X	—	
SULPHUR DIOXIDE		EXPOSED IN 25 PPM FOR 96h. (TEST STANDARD:IEC60068)				① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② NO HEAVY CORROSION.			X	—	
REMARKS NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT. Unless otherwise specified, refer to IEC60512.						DRAWN T. Nishi 04.08.25	DESIGNED K. Midozaka 04.08.25	CHECKED K. Akada 04.08.25	APPROVED J. Ona 04.08.25	RELEASED	
Note QT: Qualification Test AT: Assurance Test X: Applicable Test											
HS		HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. DF30FC-*DP-0. 4V (82)		
CODE NO.(OLD) CL		DRAWING NO. ELC4-303555-03				CODE NO. CL684-****-*82		1 1			

1		2			3		4		
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△ 4	RE-H-06664	YM	TS	04.12.17	△				. .
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■ NOTES WHEN MATING DF30 SERIES CONNECTORS.

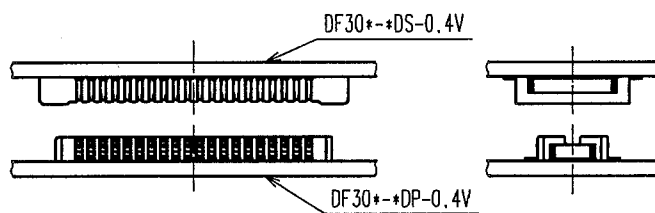


FIGURE-1

PLEASE LOCATE EACH CONNECTOR IN PARALLEL WHEN YOU PUT THEM IN MATING POSITION.

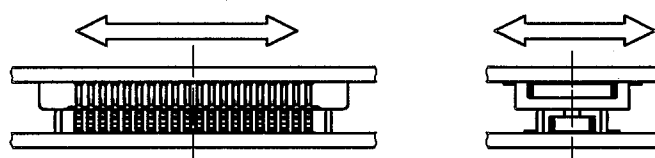


FIGURE-2

THE INSULATOR WILL BE DAMAGED AND THE CONTACTS WILL BE DEFORMED IF THE CONNECTORS ARE LOCATED INCLINED AND MATED BY EXCESSIVE FORCE.

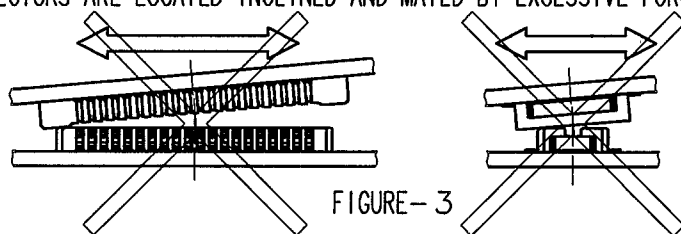


FIGURE-3

WHEN YOU LOCATE TWO CONNECTORS IN A PROPER POSITION, THEY WILL GO DOWN SLIGHTLY AT A LOWER LEVEL AND YOU WILL FIND THAT THEY GET LOCATED CORRECTLY. PLEASE MATE EACH CONNECTOR IN PARALLEL AFTER YOU CONFIRMED THAT THEY GO DOWN LOWER TO SOME EXTENT.

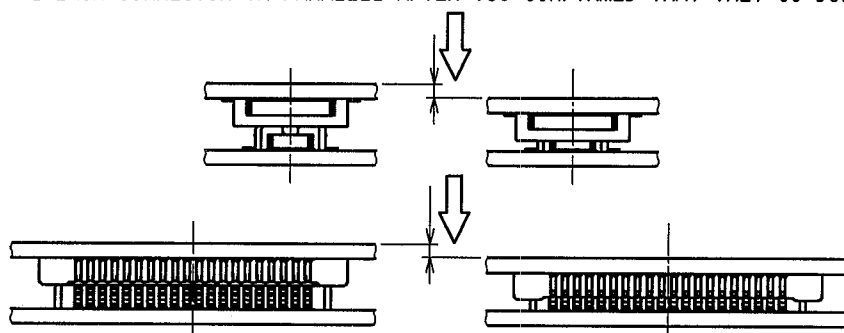


FIGURE-4

THE MATED CONDITIONS CAN BE RELEASED BY A DROP IMPACT OR THE APPLIED FORCE CAUSED BY FPC-HANDLING. FIX THE CONNECTORS BY APPLYING PRESSURE IN THE MATING DIRECTION WITH THE DEVICE OR A BUFFER MATERIAL.

CODE NO. (OLD)		DRAWN Y.MICHIDA 04.12.16	DESIGNED A.TAKAHASHI 04.12.16	CHECKED T.SAKATA 04.12.16	APPROVED T.OMA 04.12.16	RELEASED
NOTES WHEN MATING		PART NO. DF30 Series				
SCALE FREE : 1	DRAWING NO. EDSC4-830174	CODE NO. CL684				1/3
UNITS mm	HRS HIROSE ELECTRIC CO., LTD.					

1		2			3		4		
COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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■ NOTES WHEN EXTRACTING

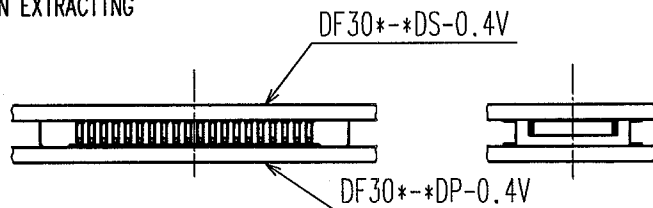


FIGURE-5

WHEN YOU EXTRACT CONNECTORS, PLEASE EXTRACT IN PARALLEL.

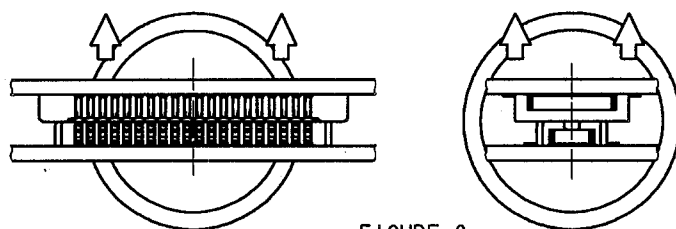


FIGURE-6

⚠ IF YOU'RE UNABLE TO EXTRACT IN PARALLEL DUE TO SET STRUCTURE OR SPACE, PLEASE EXTRACT AS FIGURE-7 (IN LONGER DIMENSION). PLEASE BE CAREFUL NOT TO DAMAGE CONTACTS AT SIDES, WHERE STRESS IS LIKELY TO GATHER WHEN CONNECTORS ARE MOUNTED ON SOFT FPC.

⚠ ESPECIALLY, PLEASE DO NOT EXTRACT FROM THE CORNER AS FIGURE-8. IT GIVES CRITICAL STRESS TO THE CONTACTS ON THE CROSS CORNER.

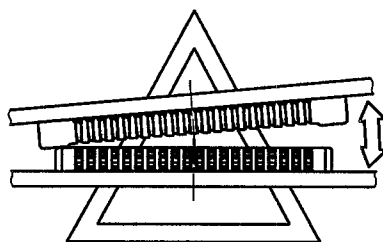


FIGURE-7

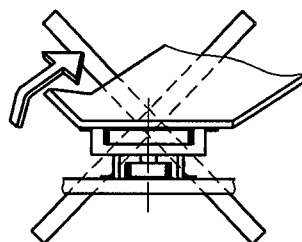


FIGURE-8

⚠ PLEASE DO NOT EXTRACT AS FIGURE-9. THE STRESS CONCENTRATES ON ONE ROW, AND MIGHT DAMAGE CONNECTORS TO MALFUNCTION.

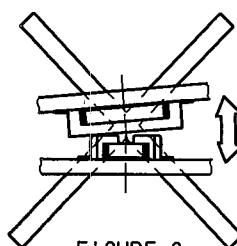


FIGURE-9

CODE NO. (OLD)		DRAWN Y. MICHIDA 04.12.16	DESIGNED A. TAKAHASHI 04.12.16	CHECKED T. SAKATA 04.12.16	APPROVED T. OMA 04.12.16	RELEASED
NOTES WHEN EXTRACTING						
DRAWING NO. EDSC4-830174		PART NO. DF30 Series				
SCALE FREE : 1		CODE NO. CL684				
UNITS mm		2/3				
HRS HIROSE ELECTRIC CO., LTD.						

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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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△ WHEN FPC IS SOFT, STRESS IS CONCENTRATED ON THE CONTACTS AT CORNERS.
 PLEASE PAY ATTENTION TO THIS POINT AND DO NOT UNMATE CONNECTORS FROM CORNERS AS FIGURE-10.
 THIS GIVES SERIOUS DAMAGE ON CONTACTS, AND OCCURS SOLDER PEEL-OFF OR CONTACT COME-OFF.

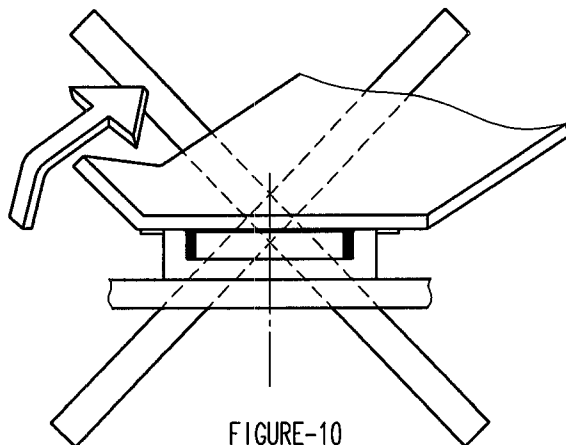


FIGURE-10

IF YOU MOUNT PLUG CONNECTOR ON FPC, CONTACTS MIGHT COME OFF FROM HOUSING MOLD.

CONTACT MIGHT COME OFF FROM HOUSING MOLD.

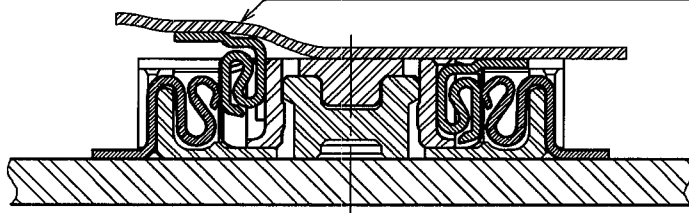


FIGURE-11

IN CASE YOU MOUNT RECEPTACLE CONNECTOR ON FPC, THERE IS NO RISK OF CONTACT COME-OFF.
 HIROSE RECOMMEND THAT RECEPTACLE IS MOUNTED ON FPC.

IN ORDER TO AVOID THIS RISK, IT IS RECOMMENDED
 THAT YOU MOUNT RECEPTACLE CONNECTOR ON FPC.

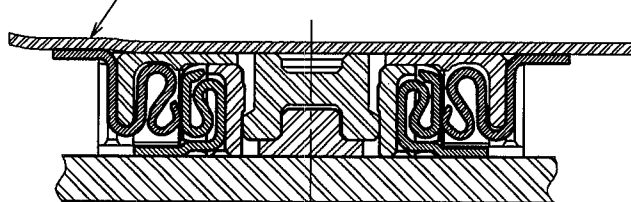


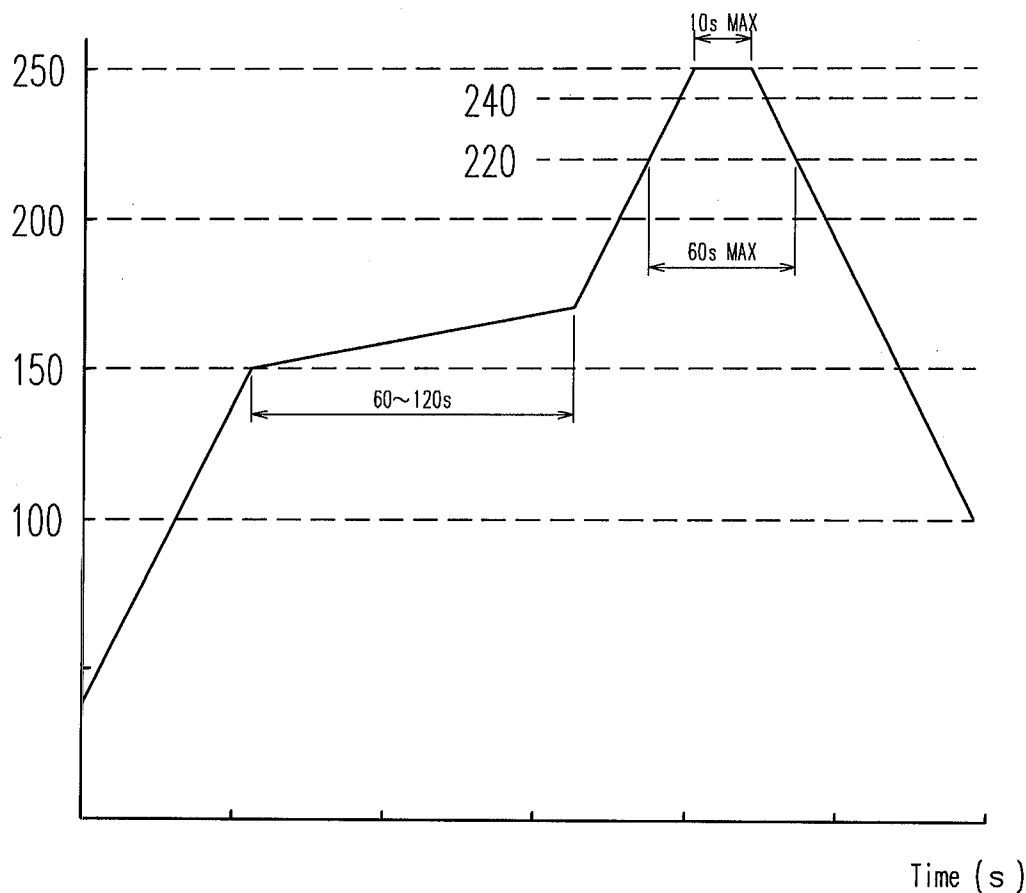
FIGURE-12

CODE NO. (OLD)		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
		Y.MICHIDA	A.TAKAHASHI	T.SAKATA	T.OMA	
NOTES WHEN EXTRACTING (SUPPLEMENTARY DATA)		04.12.16	04.12.16	04.12.16	04.12.16	
DRAWING NO. EDSC4-830174		PART NO. DF30 Series				
SCALE FREE : 1		CODE NO. CL684				
UNITS mm		3/3				
HRS HIROSE ELECTRIC CO.,LTD.						

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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		
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Temperatuer (°C)



NOTE 1.REFLOW SYSTEM : IR REFLOW (AIR OR N₂ GAS)
2.PERFORMING REFLOW : TWICE MAX

NO.	MATERIAL	FINISH, REMARKS	NO.	MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			DRAWN	DESIGNED	CHECKED
RECOMMENDED TEMPERATUER PROFILE			T.NISHI	W.Fukuchi	J. Jimike
			03.08.19	03.08.19	03.08.20
			APPROVED	RELEASED	
			J. Ona		
			03.08.20		
DRAWING NO.			PART NO.		
EDC4-830116			DF30-*DS/DP-0.4V		
SCALE			CODE NO.		
FREE			CL684		
UNITS			1		
mm			1		