

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

TO

DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

APPLICABLE STANDARD			
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*-30DP-0.4V (**)
CURRENT	0. 3 A		

**SPECIFICATIONS**

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
------	-------------	--------------	----	----

<b>CONSTRUCTION</b>				
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 <sup>2</sup> 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:IEC60069)	① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② NO HEAVY CORROSION.	X	—
SULPHUR DIOXIDE	EXPOSED IN 25 PPM FOR 96h. (TEST STANDARD:IEC60069)	① CONTACT RESISTANCE: 1 0 0 mΩ MAX. ② NO HEAVY CORROSION.	X	—

REMARKS		DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT.		T. Nishi	K. Mitsuhashi	K. Sasaki	T. Owa	
Unless otherwise specified, refer to IEC60512.		04.07.30	04.07.30	04.07.30	04.07.30	

Note QT: Qualification Test AT: Assurance Test x: Applicable Test

<b>HR5</b>	HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.
			DF30FC-30DS-0.4V (81)
CODE NO.(OLD)	DRAWING NO.	CODE NO.	
CL	ELC4-303464-04	CL684-1112-2-81	



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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
4	RE-H-06664	YM	TTS	04.12.17					..
									..
									..

■ NOTES WHEN MATING DF30 SERIES CONNECTORS.

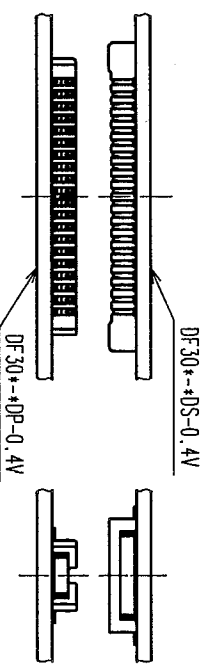


FIGURE - 1

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

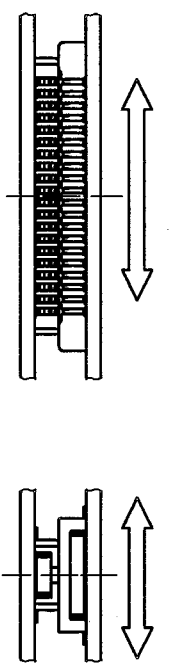


FIGURE - 2

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

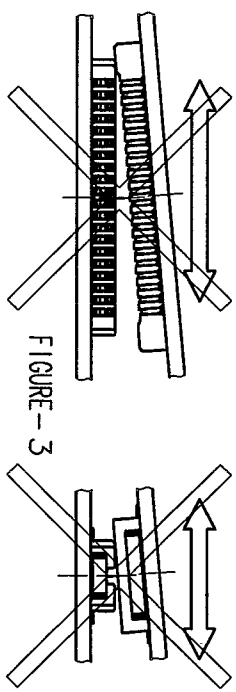


FIGURE - 3

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.

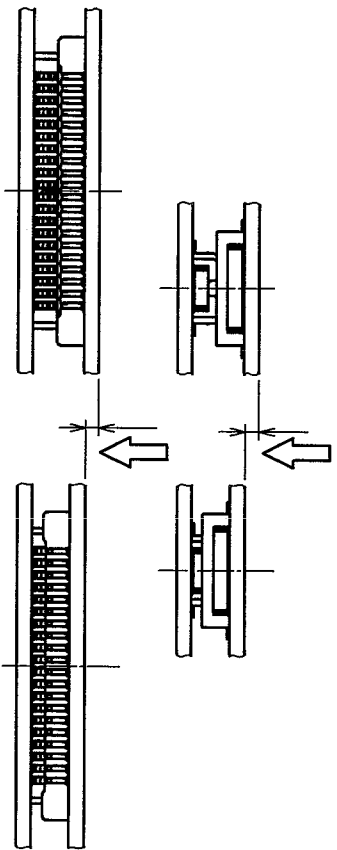


FIGURE - 4

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

CODE NO. (OLD)

CODE NO. (OLD)	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	Y.MICHIDA 04.12.16	A.TAKAHASHI 04.12.16	T.SAKATA 04.12.16	T.OMA 04.12.16	

NOTES WHEN MATING

SCALE FREE : 1	DRAWING NO. EDSC4-830174	PART NO. DF30 Series	CODE NO. CL684
UNITS mm	HIROSE ELECTRIC CO.,LTD.		FORM NO.228

TO



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

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE

■ NOTES WHEN EXTRACTING

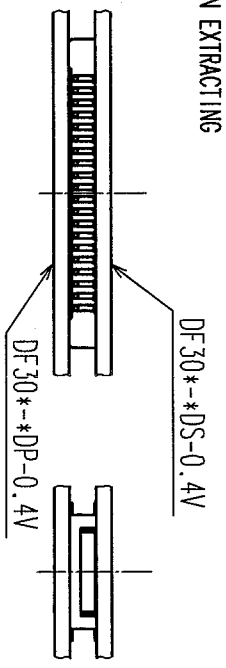


FIGURE-5

WHEN YOU EXTRACT CONNECTORS, PLEASE EXTRACT IN PARALLEL.

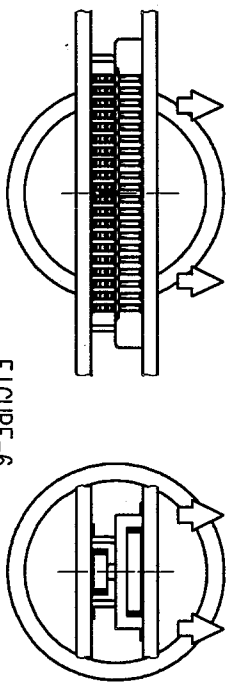


FIGURE-6

△ 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.

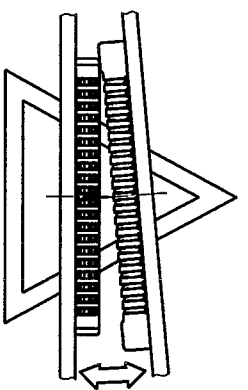


FIGURE-7

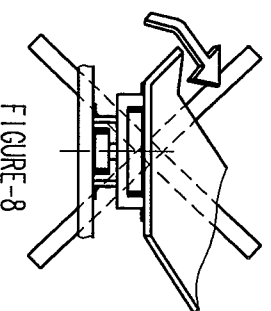


FIGURE-8

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

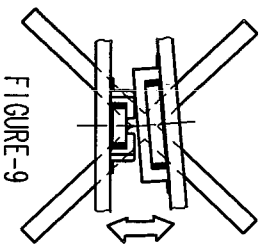


FIGURE-9

CODE NO. (OLD)

NOTES WHEN EXTRACTING

DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Y. MICHIDA 04.12.16	A. TAKAHASHI 04.12.16	T. SAKATA 04.12.16	T. OMA 04.12.16	



SCALE  
FREE : 1  
UNITS  
mm

DRAWING NO.  
EDSC4-830174

PART NO.

DF30 Series



HIROSE ELECTRIC CO., LTD.

CODE NO.

CL684

1

2

3

4

FORM NO.228



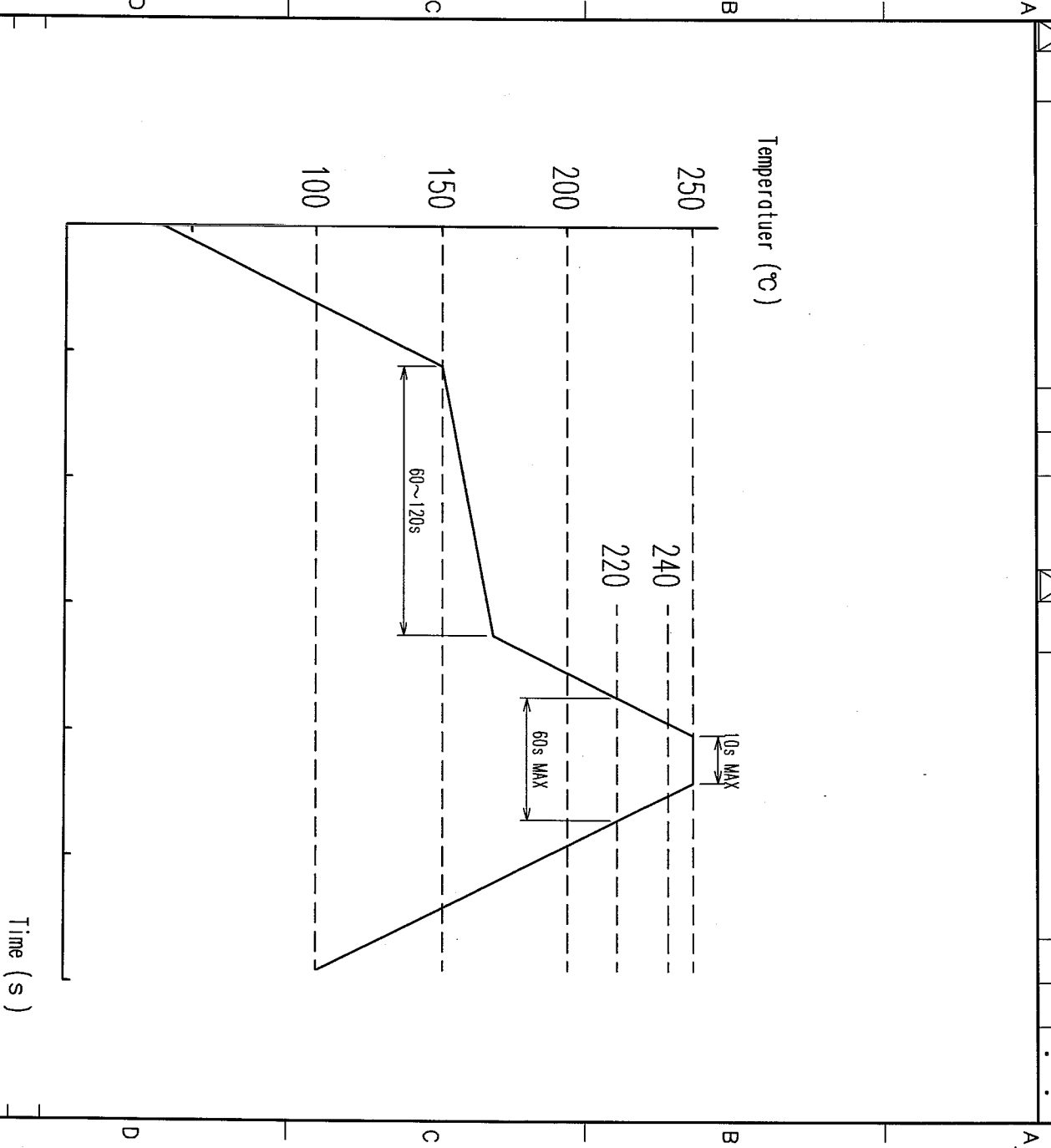
TO



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

TO

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE



NOTE 1. REFLOW SYSTEM : IR REFLOW (AIR OR N<sub>2</sub> GAS)  
 2. PERFORMING REFLOW : TWICE MAX

NO. MATERIAL	FINISH, REMARKS	NO. MATERIAL	FINISH, REMARKS
CODE NO. (OLD)			
RECOMMENDED TEMPERATURE PROFILE		DRAWN	T. NISHI 03.08.19
		DESIGNED	<i>W. Takahashi</i> 03.08.19
		CHECKED	<i>N. Yamashita</i> 03.08.20
		APPROVED	<i>T. Ono</i> 03.08.20
		RELEASED	
SCALE	DRAWING NO.	PART NO.	
FREE	EDC4-830116	DF30-*DS/DP-0.4V	
UNITS		CODE NO.	
mm		CL684	

