

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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△				..	△				..

APPLICABLE STANDARD					
RATING	OPERATING TEMPERATURE RANGE	-35 °C TO +85 °C (NOTE1)	STORAGE TEMPERATURE RANGE	-10 °C TO +60 °C	
	VOLTAGE	250 V AC	APPLICABLE CONTACT		
	CURRENT	3 A AC	APPLICABLE CONNECTOR		
			APPLICABLE CABLE		

SPECIFICATIONS


ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	<input type="checkbox"/>	<input type="checkbox"/>
MARKING	CONFIRMED VISUALLY.		<input type="checkbox"/>	<input type="checkbox"/>

ELECTRICAL CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz).	30 mΩ MAX.	<input type="checkbox"/>	<input type="checkbox"/>
CONTACT RESISTANCE MILLIVOLT LEVEL METHOD.	20 mV MAX. mA (DC OR 1000 Hz).	mΩ MAX.	<input type="checkbox"/>	<input type="checkbox"/>
INSULATION RESISTANCE	500 V DC	1000 MΩ MIN.	<input type="checkbox"/>	<input type="checkbox"/>
VOLTAGE PROOF	650 V AC FOR 1 min	NO FLASHOVER OR BREAKDOWN.	<input type="checkbox"/>	<input type="checkbox"/>

MECHANICAL CHARACTERISTICS				
CONTACT INSERTION AND EXTRACTION FORCES	0.635 ± 0.002 BY STEEL GAUGE.	INSERTION FORCE 4.4 N MAX. EXTRACTION FORCE 0.4 N MIN.	<input type="checkbox"/>	<input type="checkbox"/>
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE N MAX. EXTRACTION FORCE N MIN.	<input type="checkbox"/>	<input type="checkbox"/>
MECHANICAL OPERATION	30 TIMES INSERTIONS AND EXTRACTIONS	① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 1.5 mm, 98 m/s ² AT 2 h FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: 30 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
SHOCK	490 m/s ² DURATION OF PULSE 11 μs AT 3 TIMES FOR 3 DIRECTIONS.	① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② CONTACT RESISTANCE: — mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>

ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 ± 2 °C, 90~95% RH, 96 h.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55 ± 3 - 5 ~ 35 - 85 ± 2 - 5 ~ 35 °C TIME 30 → 5 → 30 → 5 min UNDER 5 CYCLES.	① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: MΩ. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	<input type="checkbox"/>	<input type="checkbox"/>
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, IMMERSION, DURATION. °C FOR s.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	<input type="checkbox"/>	<input type="checkbox"/>
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, FOR IMMERSION DURATION, °C s.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95% OF THE SURFACE BEING IMMersed.	<input type="checkbox"/>	<input type="checkbox"/>

REMARKS	NOTE1 INCLUDE THE TEMPERATURE RISING BY CURRENT.	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
	Unless otherwise specified, refer to MIL-STD-1344.	M. Tanaka	M. Tanaka	J. Omi	H. Yamamoto	
		'95.5.31	'95.5.31	'95.5.31	'95.6.1	

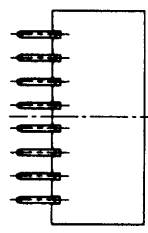
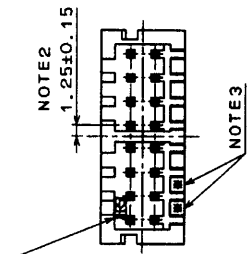
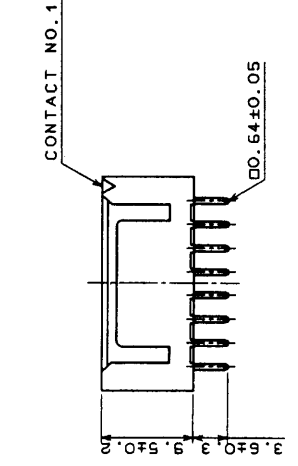
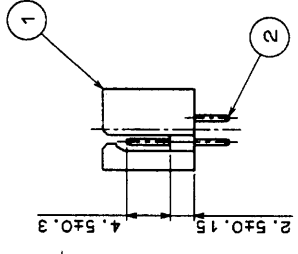
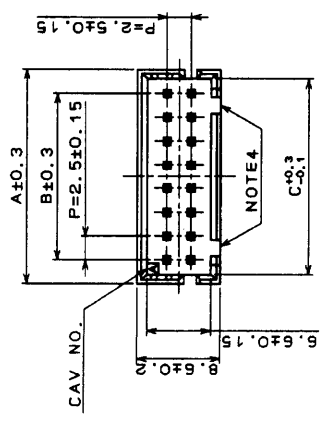
Note QT: Qualification Test AT: Assurance Test ○: Applicable Test

HRS HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO.
CODE NO. (OLD)	DRAWING NO.	CODE NO.
CL	ELC4-71800-04	0616-4
		CL541-0653-0

FOR REFERENCE ONLY
Subject to change without notice

TO

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NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE



HRS NO.	PART NO.	A	B	C
541-0651-5	DF1B-4DP-2.5DSA	7.5	2.5	5.6
541-0652-8	DF1B-6DP-2.5DSA	10.0	5.0	8.1
541-0653-0	DF1B-8DP-2.5DSA	12.5	7.5	10.6
541-0616-4	DF1B-10DP-2.5DSA	15.0	10.0	13.1
541-0617-7	DF1B-12DP-2.5DSA	17.5	12.5	15.6
541-0618-0	DF1B-14DP-2.5DSA	20.0	15.0	18.1
541-0619-2	DF1B-16DP-2.5DSA	22.5	17.5	20.6
541-0620-1	DF1B-18DP-2.5DSA	25.0	20.0	23.1
541-0621-4	DF1B-20DP-2.5DSA	27.5	22.5	25.6
541-0622-7	DF1B-22DP-2.5DSA	30.0	25.0	28.1
541-0623-0	DF1B-24DP-2.5DSA	32.5	27.5	30.6
541-0624-2	DF1B-26DP-2.5DSA	35.0	30.0	33.1
541-0625-5	DF1B-28DP-2.5DSA	37.5	32.5	35.6
541-0626-8	DF1B-30DP-2.5DSA	40.0	35.0	38.1
541-0628-3	DF1B-34DP-2.5DSA	45.0	40.0	43.1
541-0629-6	DF1B-36DP-2.5DSA	47.5	42.5	45.6
541-0631-8	DF1B-40DP-2.5DSA	52.0	47.5	50.6

NOTE1: HRS MARK.

NOTE2: WHEN THE NUMBERS OF CONTACTS OF FIRST ROW IS ODD, THE STAND-OFF SHIFTS 1.25 RIGHTWARD. (STAND-OFF AVAILABLE FROM 8 POSITIONS UP.)

NOTE3: MARK OF THE NUMBER OF PIN *(#=NO. OF PIN)

NOTE4: 4 POSITIONS AND 6 POSITIONS HEADERS HAVE ONE POLARIZING SLOT AT CENTER. OTHER POSITIONS HAVE 2 POLARIZING SLOTS AS PER DRAWING.

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NO. MATERIAL	FINISH, REMARKS	NO. MATERIAL	FINISH, REMARKS
2 BRASS	TIN PLATED	1 POLYAMIDE	NATURAL, UL94V-0

DESIGNED	CHECKED	APPROVED	RECEIVED
<i>M. Joseph</i>	<i>M. Joseph</i>	<i>J. D. ...</i>	<i>3 6 12</i>
DATE: 94.6.28	DATE: 94.6.28	DATE: 94.6.28	DATE: 94.6.28

DRAWING NO.	PART NO.
EDC3-160182	DF1B-*DP-2.5DSA
SCALE: 2:1	CODE NO.: 0651
UNITS: m/m	CL541-0631-8