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COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
△					△				
△					△				
<b>APPLICABLE STANDARD</b>									
RATING	OPERATING TEMPERATURE RANGE	-40 °C TO 85 °C			STORAGE TEMPERATURE RANGE	-10°C TO 50°C (PACKED CONDITION)			
	VOLTAGE	50 V AC / DC			OPERATING OR STORAGE HUMIDITY RANGE	RELATIVE HUMIDITY 90% MAX (NOT DEWED)			
	CURRENT	※ 0.5 A			APPLICABLE CABLE	t=0.18±0.05 , GOLD PLATED			
<b>SPECIFICATIONS</b>									
ITEM		TEST METHOD			REQUIREMENTS			QT	AT
<b>CONSTRUCTION</b>									
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.			ACCORDING TO DRAWING.			×	×
MARKING		CONFIRMED VISUALLY.						×	×
<b>ELECTRIC CHARACTERISTICS</b>									
CONTACT RESISTANCE		1 mA (DC OR 1000 Hz).			50 mΩ MAX. INCLUDING FPC, FFC BULK RESISTANCE (L=8mm)			×	×
INSULATION RESISTANCE		100 V DC.			500 MΩ MIN.			×	×
VOLTAGE PROOF		150 V AC FOR 1 min.			NO FLASHOVER OR BREAKDOWN.			×	×
<b>MECHANICAL CHARACTERISTICS</b>									
MECHANICAL OPERATION		20 TIMES INSERTIONS AND EXTRACTIONS.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
VIBRATION		FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.			① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② CONTACT RESISTANCE: 50 mΩ MAX.			×	—
SHOCK		981 m/s <sup>2</sup> , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 DIRECTIONS.			③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
FPC RETENSION FORCE		MEASURED BY APPLICABLE FPC. (CONNECTOR, FPC AT INITIAL CONDITION. THICKNESS OF FPC SHALL BE t=0.18mm)			DIRECTION OF INSERTION : 0.4 × n N MIN. (n : NUMBER OF CONTACTS)			×	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -40 → +15 TO +35 → +85 → +15 TO +35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 5 CYCLES.			① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 ± 2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h.						×	—
DAMP HEAT, CYCLIC		EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES, TOTAL 240 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
DRY HEAT		EXPOSED AT 85 ± 2 °C, 96 h.			① CONTACT RESISTANCE: 50 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.			×	—
COLD		EXPOSED AT -40 ± 3 °C, 96 h.						×	—
EMARKS				DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
				D.YAMADA 04.06.07	T.MURAI 04.06.07	I. Kuwata 04.06.07	R. Takayama 04.06.07		
Unless otherwise specified, refer to JIS C 5402.									
Note QT:Qualification Test AT:Assurance Test ×:Applicable Test									
<b>HRS</b> HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. FH12F - * * S - 0.5SH (55)		
CODE NO. (OLD)		DRAWING NO.			CODE NO.		1/2		
CL		ELC4 - 152792 - 51			CL 586				

TO  
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### SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CORROSION SALT MIST	EXPOSED AT 35±2 °C, 5 % SALT WATER SPRAY FOR 96 h.	① CONTACT RESISTANCE: 50 mΩ MAX. ② NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR.	×	—
SURPHUR DIOXIDE [ JIS C 0090 ]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5 % , 25±5 PPM FOR 96 h.		×	—
HYDROGEN SULPHIDE [ JIS C 0092 ]	EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 80±5 % , 10 TO 15 PPM FOR 96 h.		×	—
RESISTANCE TO SOLDERING HEAT	1) REFLOW SOLDERING (TO BE 2 TIMES MAX.) PEAK TMP. 250 °C MAX. REFLOW TMP. 230 °C MIN. FOR 30 sec. PRE-HEATING. 150 TO 200 °C 90 TO 120 sec. 2) SOLDERING IRONS : 350 ± 10 °C, FOR 5±1 sec.	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.	×	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 235 ± 5 °C, FOR IMMERSION DURATION, 2±0.5 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed.	×	—

※ WHEN THE SAME VALUE OF CURRENT ARE APPLID TO ALL CONTACTS AT THE SAME TIME IN ONCE,  
SET THE CURRENT TO THE 70 % OF THE RATED CURRENT VALUE.

REMARKS	DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.	D.YAMADA	T.MURAI	<i>J. Kuwata</i>	<i>R. Takayama</i>	
	04.06.07	04.06.07	04.06.07	04.06.07	

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

<b>HRS</b> HIROSE ELECTRIC CO., LTD.	SPECIFICATION SHEET	PART NO. FH12F - * * S - 0.5SH (55)
CODE NO.(OLD) CL	DRAWING NO. ELC4 - 152792 - 51	CODE NO. CL 586
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