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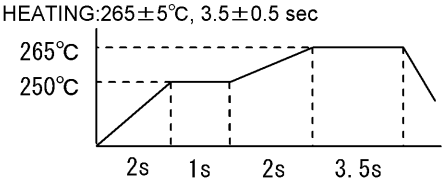
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD				
RATING	OPERATING TEMPERATURE RANGE	-55 °C TO 85 °C (1)	STORAGE TEMPERATURE RANGE	-10 °C TO 60 °C (2)
	VOLTAGE	100 V AC (3)	OPERATING HUMIDITY RANGE	40 % TO 80 %
	CURRENT	0.5 A (3)	STORAGE HUMIDITY RANGE	40 % TO 70 % (2)
	APPLICABLE CABLE	AWG 36,40 THIN COAXIAL CABLE		

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	×	×
MARKING	CONFIRMED VISUALLY.		×	×
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	20 mV MAX, 1 mA(DC OR 1000Hz)	80 mΩ MAX. (4)	×	
INSULATION RESISTANCE	100 V DC.	500 MΩ MIN.	×	
VOLTAGE PROOF	300 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	×	
MECHANICAL CHARACTERISTICS				
INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.	INSERTION FORCE: 24.6 N MAX. WITHDRAWAL FORCE: 2.05 N MIN.	×	
MECHANICAL OPERATION	50 TIMES INSERTIONS AND EXTRACTIONS.	① CONTACT RESISTANCE: 100 mΩ MAX.(4) ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGL AMPLITUDE : 0.76 mm, AT 2 h FOR 3 DIRECTION.	① NO ELECTRICAL DISCONTINUITY OF 1 μs. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
SHOCK	490 m/s^2 , DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		×	
LOCK STRENGTH	MATE TO APPLICABLE CONNECTOR AND APPLY PULL FORCE HORIZONTALLY.	30 N MIN.	×	
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40±2 °C, 90 ～ 95 %, 96 h.	① CONTACT RESISTANCE: 100 mΩ MAX.(4) ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	×	
DRY HEAT	EXPOSED AT 85±2 °C, 96 h			
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→+5～+35→+85→+5～+35°C TIME 30→ 5 MAX→ 30→ 5 MAX min. UNDER 5 CYCLES.		×	
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	① CONTACT RESISTANCE: 100 mΩ MAX.(4)	×	
SULFUR DIOXIDE	EXPOSED IN 25 PPM FOR 96 h. (TEST STANDARD: JIS C 60068)	② DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR.	×	
RESISTANCE TO SOLDERING HEAT	1)SOLDERING HEAT WELDER : PRESSURIZATION:15±2N HEATING:265±5℃, 3.5±0.5 sec  	NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINAL.	×	
	2) SOLDERING IRONS : 360℃ MAX. FOR 3 sec.		×	
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE 240±3℃ FOR IMMERSION DURATION, 3 sec.	A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED.	×	

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
△0					

REMARKS (1) INCLUDE TEMPRERATURE RISE CAUSED BY CURRENT-CARRYING.
(2) "STORAGE" MEANS A LONG-TERM STORAGE STATE FOR THE UNUSED PRODUCT BEFORE ASSEMBLY TO PCB.
(3) IT IS THE MAXIMUM VALUE OF CONNECTOR. CONFIRM THE SPECIFICATION OF THE CABLE.
(4) NOT INCLUDE CONDUCTOR RESISTANCE OF CABLE.
Unless otherwise specified, refer to JIS-C-5402.

APPROVED	HS. OKAWA	07. 05. 11
CHECKED	HT. YAMAGUCHI	07. 05. 11
DESIGNED	KN. SHIBUYA	07. 05. 10
DRAWN	KN. SHIBUYA	07. 05. 10

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

DRAWING NO. ELC4-156254-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. FX15S-41P-0.5SD

CODE NO. CL575-2110-3-00 △0 1/1

FORM HD0011-2-1