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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
△					△				
△					△				
APPLICABLE STANDARD									
RATING	OPERATING TEMPERATURE RANGE	-40 °C ~ -70 °C			STORAGE TEMPERATURE RANGE	-50 °C ~ +85 °C			
	VOLTAGE	50 V AC or DC			OPERATING HUMIDITY RANGE	85%RH MAX			
	CURRENT	0.5A (1A ACCEPTABLE FOR ANY 2 CONTACTS)			APPLICABLE CABLE	JACKET DIAMETER : φ 4 MAX INSULATION : φ 0.6MAX (AWG30)			
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		100 mA (DC OR 1000 Hz)			70 mΩ MAX			○	-
INSULATION RESISTANCE		100 V DC			1000 MΩ MIN			○	-
VOLTAGE PROOF		250 V AC FOR 1 min			NO FLASHOVER OR BREAKDOWN			○	○
MECHANICAL CHARACTERISTICS									
INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR.			INSERTION FORCE: 4~10 N (INITIAL) EXTRACTION FORCE: 4~10 N (INITIAL)			○	-
MECHANICAL OPERATION		5000 TIMES INSERTIONS AND EXTRACTIONS.			① AMOUNT OF CHANGE OF CONTACT RESISTANCE: 20 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	-
VIBRATION		FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, OR 98 m/s ² AT 2 h, FOR 3 DIRECTIONS.			① AMOUNT OF CHANGE OF CONTACT RESISTANCE: 20 mΩ MAX. ② NO ELECTRICAL DISCONTINUITY OF			○	-
SHOCK		490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.			1 μs. ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	-
ENVIRONMENTAL CHARACTERISTICS									
RAPID CHANGE OF TEMPERATURE		TEMPERATURE -55 →15~35→85→15~35 °C TIME 30 → 2~3 →30 → 2~3 min UNDER 10 CYCLES.			① AMOUNT OF CHANGE OF CONTACT RESISTANCE: 20 mΩ MAX. ② INSULATION RESISTANCE: 10MΩ MIN.			○	-
DAMP HEAT (STEADY STATE)		EXPOSED AT +40 °C, 90~95 %, 96 h.			③ NO FLASHOVER OR BREAKDOWN ④ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	-
DRY HEAT		EXPOSED AT +85 °C, 96 h.						○	-
COLD		EXPOSED AT -40 °C, 96 h.						○	-
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER, 35°C, FOR 48h.			NO HEAVY CORROSION.			○	-
OTHER CHARACTERISTICS									
SOLDERABILITY		SOLERRING POINT OF CONTACTS IMMERSION IN SOLDER BATH OF 245±3°C, 2~3 sec.			MIN. 90% OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.			○	-
RESISTANCE TO SOLDERING HEAT		SOLDERING IRON TEMPERATURE: 350±10°C FOR 5±1s			NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.			○	-
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED
Unless otherwise specified, refer to JIS C 5402.					<i>S. Shimizu</i> '05.12.15	<i>S. Shimizu</i> '05.12.15	<i>S. Matuyoshi</i> 05.12.15	<i>S. Matuyoshi</i> 05.12.15	
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test									
HS HIROSE ELECTRIC CO., LTD.				SPECIFICATION SHEET			PART NO. L X 4 0 - 1 2 P		
CODE NO.(OLD)		DRAWING NO.			CODE NO.			1	1
CL		ELC4-125471			CL245-0019-6				

