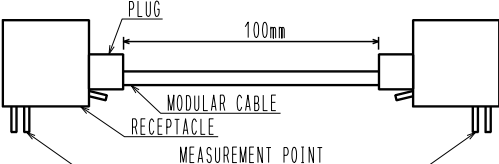


APPLICABLE STANDARD		UL1863				
Rating	Operating Temperature Range	-55 °C to 85 °C (note 1) ⚠		Storage Temperature Range	-25 °C to 60 °C ⚠	
	Voltage	56.5 V DC Working voltage 150 V max		Current	100m A	
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS	QTAT	
CONSTRUCTION						
General Examination		Visually and by measuring instrument.		According to drawing.	X	X
Marking		Confirmed visually.			X	X
ELECTRIC CHARACTERISTICS						
Contact Resistance	100 mA max (DC or 1000 Hz).  (One example connector configuration is shown.)			230 mΩ max.	X	X
Insulation Resistance	100 V DC.			100 MΩ min.	X	X
Voltage Proof	500 V AC for 1 min.			No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS						
Mechanical Operation	200 times insertions and extractions.			1) Contact resistance: 250 mΩ max. 2) No damage, crack and looseness of parts.	X	—
Vibration	Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 5 min/cycle, 10 cycles.			1) No electrical discontinuity of 5 μs. 2) Contact resistance: 250 mΩ max.	X	—
Shock	490 m/s ² duration of pulse 11 ms for 3 times in 3 both axial directions.			3) No damage, crack and looseness of parts.	X	—
Rubber Probe Insertion	Rubber probe φ6.9 ± 0.5 mm, insertions. (test standard:UL1863)			No breakdown.(at extractions)	X	—
ENVIRONMENTAL CHARACTERISTICS						
Damp Heat (Steady State)	Exposed at 40 °C, 90 ~ 95 %, 500 h.			1) Contact resistance: 250 mΩ max. 2) Insulation resistance: 1 MΩ min. (at high humidity) 10 MΩ min. (at dry) 3) No damage, crack and looseness of parts	X	—
Rapid Change of Temperature	Temperature -55±3 → 5 to 35 → 85±2 → 5 to 35 °C Time 30 to 35 → 5 max → 30 to 35 → 5 max min Under 5 cycles.			1) Contact resistance: 250 mΩ max. 2) Insulation resistance: 100 MΩ min. 3) No damage, crack and looseness of parts.	X	—
Corrosion Salt Mist	Exposed in 5 % salt water spray for 48 h.			1) Contact resistance: 250 mΩ max. 2) No heavy corrosion.	X	—
Resistance to Soldering Heat	Solder temperature, 260 ± 5 °C for immersion, duration 10±1 s.			No deformation of case and excessive looseness of the terminals.	X	—
Solderability	Soldered at solder temperature, 245±2 °C for immersion, duration 3±1 s.			Min. 95 % of solder immersed area shall be covered new solder coating.	X	—
Note 1. The operation temperature includes the rise by current carrying.						
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
⚠	2	DIS-E-00002925	KIM JAEHYEON	TU. TANIGUCHI	20200326	
REMARK				APPROVED	R.I. TAKAYASU	20180608
				CHECKED	AH. KODAMA	20180608
				DESIGNED	MO. SHIMOYAMA	20180607
				DRAWN	AK. AKIYAMA	20180607
Unless otherwise specified, refer to IEC 60512.						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-047291-50-00	
HRS	SPECIFICATION SHEET		PART NO.	TM11RX-5C-88 (50)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL222-5133-5-50	⚠	1/1