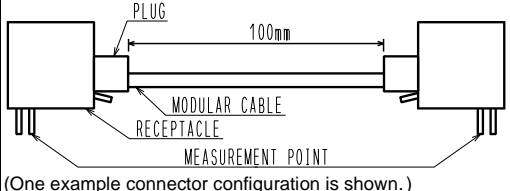


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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		UL1863			
Rating	Operating Temperature Range	-55 °C to 85 °C (note 1) \triangle	Storage Temperature Range	-25 °C to 60 °C \triangle	
	Voltage	56.5 V DC Working voltage 150 V max	Current	100m A	
SPECIFICATIONS					
ITEM	TEST METHOD		REQUIREMENTS	QT	AT
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 m Ω max.	X	X
Insulation Resistance	100 V DC.		100 M Ω 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 m Ω 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 μ s. 2) Contact resistance: 250 m Ω 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 ϕ 6.9 \pm 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 m Ω max. 2) Insulation resistance: 1 M Ω min. (at high humidity) 10 M Ω min. (at dry) 3) No damage, crack and looseness of parts	X	—
Rapid Change of Temperature	Temperature -55 \pm 3 \rightarrow 5 to 35 \rightarrow 85 \pm 2 \rightarrow 5 to 35 °C Time 30 to 35 \rightarrow 5 max \rightarrow 30 to 35 \rightarrow 5 max min Under 5 cycles.		1) Contact resistance: 250 m Ω max. 2) Insulation resistance: 100 M Ω 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 m Ω max. 2) No heavy corrosion.	X	—
Resistance to Soldering Heat	Solder temperature, 260 \pm 5 °C for immersion, duration 10 \pm 1 s.		No deformation of case and excessive looseness of the terminals.	X	—
Solderability	Soldered at solder temperature, 245 \pm 2 °C for immersion, duration 3 \pm 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
\triangle	2	DIS-E-00002925	KIM JAEHYEON	TU. TANIGUCHI	20200326
REMARK			APPROVED	RI. TAKAYASU	20180608
			CHECKED	AH. KODAMA	20180608
			DESIGNED	MO. SHIMOYAMA	20180607
			DRAWN	AK. AKIYAMA	20180607
Unless otherwise specified, refer to IEC 60512.			DRAWING NO.		ELC-047291-50-00
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	\triangle 1/1