

APPLICABLE STANDARD						
Rating	Operating temperature range	-25 °C to +85 °C		Storage temperature range	-10 °C to +60 °C	
	Voltage	AC 500 V, DC 700 V				
	Current	5 A		Applicable cable		
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
ELECTRICAL CHARACTERISTICS						
Contact resistance	Contact measured at DC 1 A.		4 mΩ MAX.		X	X
Insulation resistance	500 V DC.		1000 MΩ MIN.		X	X
Voltage proof	1500 V AC. for 1 min.		No breakdown.		X	X
MECHANICAL CHARACTERISTICS						
Contact mating and unmating forces	Measured with — steel pin gage.		Mating and unmating forces: — N MIN.		—	—
Connector mating and unmating forces	Measured with an applicable connector. Without locking device.		Mating and unmating forces :40 N MAX.		X	—
Mechanical operation	Mated and unmated 2,000 times.		Contact resistance: 8 mΩ MAX.		X	—
Vibration	Frequency: 10 → 55 → 10 Hz, single amplitude 0.75 mm, 5min/cycle, for 10 cycles in each of three mutually perpendicular directions.		①No electrical discontinuity of 10 μs. ②No damage, crack and looseness, of parts.		X	—
Shock	Acceleration: 490m/s ² , half sine wave pulses of 11ms. Performed 3 times in each of three mutually perpendicular directions.		① No electrical discontinuity of 10 μs. ② No damage, crack and looseness, of parts.		X	—
ENVIRONMENTAL CHARACTERISTICS						
Damp heat (Steady state)	Subjected to 40°C, at a humidity of 90 to 95% for 96h.		①Insulation resistance:100 MΩ MIN (When dry). ②No damage, crack and looseness, of parts.		X	—
Rapid change of temperature	Temperature -55→ R/T ⁽¹⁾ → +85 → R/T °C Time 30 → 2 to 3 → 30 → 2 to 3 min for 5 cycles.		① Insulation resistance: 100 MΩ MIN. ② No damage, crack and looseness of parts.		X	—
Corrosion salt mist	Subjected to 5% salt spray for 48h.		No heavy corrosion which impairs functionality.		X	—
Heat resistance	Subjected to +85°C for 96h.		No damage, crack and looseness of parts.		X	—
Cold resistance	Subjected to -55°C for 96h.		No damage, crack and looseness of parts.		X	—
Resistance to soldering heat	Soldering iron is placed to the soldering surface for 3s. (Iron tip temperature +380±10°C)		No deformation or excessive looseness of terminals.		X	—
Solder ability	Soldered at solder temperature, +350±10°C for immersion duration, 3s.		Soldering surface shall be free from pin-holes, de-wetted and un-wetted areas and other defects.		X	—
Sealing ⁽²⁾ (IPX8)	Subjected to a depth of 1.8m for 48h.		No water penetration into the connector.		X	—
Airtightness ⁽²⁾	17.6 kPa of air pressure applied to the inside of the mated connector for 30s.		No air bubbles emitted from the inside of the connector.		X	—
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED		DATE
Q						
REMARKS Notes (1) R/T : Room temperature (2) Sealing and Air Tightness shall be tested in mated condition with an applicable connector. Unless otherwise specified, refer to IEC 60512 (JIS C 5402).				APPROVED	TP.KOMATSU	20220831
				CHECKED	HY.KOBAYASHI	20220830
				DESIGNED	HT.ZENBA	20220830
				DRAWN	KR.SUZUKI	20220829
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-114570-81-00	
HRS	SPECIFICATION SHEET		PART NO.	RM15WTLP-8P (81)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0109-1887-6-81		1/1