

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/s², 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
①					
REMARKS			APPROVED	TP.KOMATSU	20220831
Notes (1) R/T : Room temperature (2) Sealing and Air Tightness shall be tested in mated condition with an applicable connector.			CHECKED	HY.KOBAYASHI	20220830
			DESIGNED	HT.ZENBA	20220830
			DRAWN	KR.SUZUKI	20220829
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).					
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 1/1