

APPLICABLE STANDARD		-25 °C to +85 °C	Storage temperature range	-10 °C to +60 °C
Rating	Operating temperature range			
	Voltage	AC 500 V , DC 700 V		
	Current	5 A	Applicable cable	

SPECIFICATIONS

ITEM	TEST METHOD	REQUIREMENTS	QT	AT
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CONSTRUCTION

General examination	Visually and by measuring instrument.	According to drawing.	X	X
Marking	Confirmed visually.		X	X

ELECTRIC CHARACTERISTICS

Contact resistance	Contact shall be 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 flashover or breakdown.	X	X

MECHANICAL CHARACTERISTICS

Contact insertion and withdrawal forces	$\phi 0.991^{+0.003}_0$ by steel gauge.	Insertion and withdrawal forces : 0.2 N MIN.	X	-
Connector insertion and withdrawal forces	Measured by applicable connector. Locking device with unlook.	Insertion and withdrawal forces : 40 N MAX.	X	-
Mechanical operation	2000 times insertions and extractions.	Contact resistance: 8 mΩ MAX.	X	-
Vibration	Frequency: 10 → 55 → 10 [Hz], single amplitude 0.75 mm, at 10 cyc, 49 minutes, for 3 directions.	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness, of parts.	X	-
Shock	490 m/s ² directions of pulse 11 ms at 3 times for 6 directions.	① No electrical discontinuity of 10 μs. ② No damage, crack and looseness, of parts.	X	-

ENVIRONMENTAL CHARACTERISTICS

Damp heat (Steady state)	Exposed at 40 °C, 90 to 95 %, 96 h.	① Insulation resistance: 100 MΩ MIN (at dry). ② No damage, crack and looseness of parts.	X	-
Rapid change of temperature	Temperature -55 → R/T ⁽¹⁾ → +85 → R/T °C Time 30 → 10 to 15 → 30 → 10 to 15 min under 5 cycles.	① Insulation resistance: 100 MΩ MIN. ② No damage, crack and looseness of parts.	X	-
Corrosion salt mist	Exposed in 5 % salt water spray for 48 h.	No heavy corrosion ruin the function.	X	-
Dry heat	Exposed at + 85 °C , 96 h.	No damage, crack and looseness of parts.	X	-
Cold	Exposed at - 55 °C , 96 h.	No damage, crack and looseness of parts.	X	-
Resistance to soldering heat	Solder temperature, +380±10°C , for immersion duration, 3 ⁺¹ ₀ s.	No deformation of case of excessive looseness of the terminals.	X	-
Solderability	Soldered at solder temperature, +350+10°C for immersion duration, 2 to 3 s.	Wetting on solder surface. No solder cluster.	X	-
Sealing ⁽²⁾	Exposed at a depth of 1.8 m for 48 h.	No water penetration inside connector.	X	-
Airtightness ⁽²⁾	Apply air pressure 17.6 kPa for 0.5 min to inside connector.	No air bubbles from connector interface.	X	-

COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
0				

REMARK NOTES (1)R/T : Room Temperature (2) Sealing and airtightness shall be tested under mated condition with an applicable connector. Unless otherwise specified, refer to IEC60512(JIS C 5402).	APPROVED	YH. YAMADA	16. 04. 05
	CHECKED	HY. KOBAYASHI	16. 04. 05
	DESIGNED	HR. SATO	16. 04. 05
	DRAWN	HR. SATO	16. 04. 05

Note QT:Qualification Test AT:Assurance Test X:Applicable Test	DRAWING NO.	ELC-111102-71-00
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HRS	SPECIFICATION SHEET	PART NO.	RM15WTRZB-8S (71)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL109-1680-8-71	1/1

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 In case that the application demands a high level of reliability, such as automotive, please contact a company representative for further information.