

Applicable Standard					
Rating	Operating temperature range	-40 °C TO +105 °C	Storage Temperature Range	-10 °C TO +60 °C	
	Voltage	AC 200 V , DC 250 V			
	Current	3 A	Applicable Cable		
Specifications					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
Construction					
General examination		Visually and by measuring instrument.	According to drawing.	×	×
Marking		Confirmed visually.		×	×
Electrical Characteristics					
Contact resistance		Contact measured at DC 1 A (MIL-C-2316)	20 mΩ max.	×	×
Insulation resistance		DC 500 V DC. (MIL-STD-1344 3003)	1000 MΩ min.	×	×
Voltage proof		AC 900 V AC for 1 min. (MIL-STD-1344 3001)	No flashover or breakdown.	×	×
Mechanical Characteristics					
Connector Mating and Unmating Forces		Measured with an applicable connector.	Mating and Unmating Forces : 50 N max.	×	—
Mechanical operation		Mated and unmated 30 times. (MIL-C-5015 4.6.12.2)	Contact Resistance : 30 mΩ max.	×	—
Vibration		Frequency 10 to 500 Hz, single amplitude 0.75 mm, 98 m/s ² at 3 h, for 3 directions. (MIL-STD-1344 2005, condition II)	① No electrical discontinuity of 10 μs. ② No damage, cracks or looseness of parts.	×	—
Shock		Acceleration: 490m/s ² , half sine wave pulses of 11ms. Performed 3 times in each of three mutually perpendicular directions. (MIL-STD-1344 2004, condition E)	① No electrical discontinuity of 10 μs. ② No damage, cracks or looseness of parts.	×	—
Environmental Characteristics					
Rapid change of temperature		Temperature -55 → R/T ⁽¹⁾ → +105 → R/T °C Time 30 → 2~3 → 30 → 2~3 min for 5 cycles.	① Insulation Resistance: 500 MΩ min. ② No damage, cracks or looseness of parts.	×	—
Damp heat (steady state)		Subjected to 71°C, at a humidity of 95% for 336h. (MIL-C-5015 4.6.10)	① Insulation Resistance: 50 MΩ min (At high humidity). ② Insulation Resistance: 500MΩ min (When dry). ③ No damage, cracks or looseness of parts.	×	—
Corrosion sulphur dioxide		Exposed in SO ₂ :670ppm 40°C for 8 h. Exposed in air atmosphere 18 to 28°C for 16 h.  (DIN 50018)	No heavy corrosion which impairs functionality.	×	—
Sealing		Subjected to a depth of 1 m for 0.5 h. (JIS B 6015)	No water penetration inside connector.	×	—
Airtightness		40 kPa of air pressure applied to the inside of the mated connector for 30s.	No air bubbles emitted from the inside of the connector.	×	—
Resistance to soldering heat		Place soldering iron (iron tip temperature +380±10°C) and solder to soldering pot area for 3 to 4 s.	No deformation of case and excessive looseness Of the terminals.	×	—
Solderability		Place soldering iron (iron tip temperature +350±10°C) and solder to soldering pot area for 2 to 3 s.	A soldering side is to be wet with solder. And, no small lump of the solder.	×	—
Corrosion salt mist		Subjected to 5% salt spray for 720h. (MIL-STD-1344 3001, condition B)	No heavy corrosion which impairs functionality.	×	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-C-00013439	KN. IKEHARA	KI. NAGANUMA	20221130
Remarks NOTES(1) R/T :Room Temperature (2) Sealing and airtightness shall be tested under mated condition with an applicable connector. (3) UL1977 certification is planed to acquire. Unless otherwise specified, refer to IEC 60512 (JIS C 5402).			APPROVED	YH. YAMADA	20200609
			CHECKED	HY. KOBAYASHI	20200609
			DESIGNED	KN. IKEHARA	20200608
			DRAWN	KN. IKEHARA	20200608
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.	ELC-392042-00-00	
	SPECIFICATION SHEET		PART NO.	HR34P-10WR-10P	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0134-0079-0-00	 1/1