





APPLICABLE STANDARD 		TÜV approved(R50270424), UL approved(E52653)					
Rating	Operating temperature range ⁽²⁾	-40°C to +105°C		Storage temperature range	-10°C to +60°C		
	Voltage 	AC, DC 600 V(UL,TÜV) AC, DC 1000V		—	—		
	Current ⁽¹⁾ 	20A (UL, TÜV) 24A(Ambient temperature 25°C)		Applicable cable	φ 13.5±0.7		
SPECIFICATIONS							
ITEM		TEST METHOD		REQUIREMENTS		QT	AT
CONSTRUCTION							
General Examination		Examined visually and with a measuring instrument.		According to the drawing.		X	X
Marking		Confirmed visually.				X	X
ELECTRICAL CHARACTERISTICS							
Contact Resistance		Measured at DC 1A. MAX.		Center contact 2 mΩ MAX.		X	X
Insulation Resistance		Measured at 500 V DC.		5000 MΩ MIN.		X	X
Voltage Proof		4260 V AC applied for 1 min.		No flashover or breakdown.		X	X
Impulse voltage proof		Apply 15kV standard waveform (1.2/50μs voltage waveform. positive/negative polarities,3 times each) between each contact in mated condition.		No flashover or breakdown.		X	—
MECHANICAL CHARACTERISTICS							
Contact Insertion and Extraction Forces 		Measured with a φ 3.58±0.003 steel gauge.		Insertion and extraction force 0.8 N MIN.		X	—
Mating and Unmating Forces		Measured with an applicable connector.		Mating and unmating force 100 N MAX.		X	—
Contact retention force		Apply pull force to the wire after crimping connected contact.		Do not move the terminal : 50N MAX.		X	—
Mechanical Operation		Mated and unmated 200 times.		Contact resistance: 4 mΩ MAX.		X	—
Vibration		Frequency: 10 → 500 → 10 Hz, Single Amplitude 0.75 mm, Acceleration: 98 m/s ² , 11min/cycle, for 3 h in each of three mutually perpendicular directions.		1) No electrical discontinuity of more than10μs. 2) No damage, cracks or 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 more than10μs. 2) No damage, cracks or looseness of parts.		X	—
ENVIRONMENTAL CHARACTERISTICS							
Rapid change of temperature		Temperature -55 → R/T ⁽³⁾ → +125 → R/T °C Time 30 → 2 to 3 → 30 → 2 to 3 min under 5 cycles.		1) insulation resistance: 5000 MΩ MIN. 2) No damage, crack and looseness of parts.		X	—
Damp heat (Steady state)		Subjected to 40° C, at a humidity of 90 to 95% for 96h.		1) Insulation resistance: 50 MΩ MIN (At high humidity). 2) Insulation resistance: 500 MΩ MIN (At dry). 3) No damage, crack and looseness of parts.		X	—
Corrosion salt mist ⁽⁴⁾		Subjected to 5% salt spray for 1000h.		No heavy corrosion which impairs functionality.		X	—
Sealing ⁽⁴⁾		Subjected to a depth of 2m for 14 days.		No water penetration into the connector.		X	—
Air tightness ⁽⁴⁾		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
	4	DIS-C-00003790		HT.ZENBA		HY.KOBAYASHI	20200130
REMARK 				APPROVED		SU.OBARA	20130409
Notes (1) Above specifications shows the values in assembled condition with applicable crimp contacts. (Applicable crimp contact:HR41-SC-111) (2) Include temperature rise caused by current-carrying. (3) R/T : Room temperature. (4) Corrosion salt mist, sealing and airtightness shall be tested under mated condition with an applicable connector. Unless otherwise specified, refer to IEC 60512 (JIS C 5402).				CHECKED		HY.KOBAYASHI	20130409
				DESIGNED		TY.SUZUKI	20130408
				DRAWN		TY.SUZUKI	20130408
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC4-118193-00	
		SPECIFICATION SHEET		PART NO.		HR41-25WBPF-3SC	
		HIROSE ELECTRIC CO., LTD.		CODE NO.		CL141-0026-8-00  1/1	