

APPLICABLE STANDARD					
Rating	Operating Temperature Range	-25°C to +85°C	Storage Temperature Range	-10°C to +60°C	
	Voltage	AC 30 V, DC 42 V	Wire Size	26 AWG MAX	
	Current	2A	Applicable Cable	φ8.7±0.2	
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.	15 MΩ MAX.	X	X
Insulation Resistance		Measured at 100 V DC.	1000 MΩ MIN.	X	X
Voltage Proof		300 V AC applied for 1 min.	No flashover or breakdown.	X	X
MECHANICAL CHARACTERISTICS					
Contact Insertion and Extraction Forces		Measured with a φ ____ steel gauge.	Insertion and extraction forces: — N MIN.	—	—
Mating and Unmating Forces		Measured with an applicable connector.	Mating and unmating forces : 50 N MAX. (Without lock)	X	—
Mechanical Operation		Mated and unmated 1000 times.	Contact resistance: 30 mΩ MAX.	X	—
Vibration		Frequency: 10 Hz to 55 to 10 Hz every cycle (5 min per cycle) Single amplitude: 0.75 mm Performed over 10 cycles in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	—
Shock		Acceleration: 490 m/s <sup>2</sup> , Half sine wave pulses of 11 ms. Performed 3 times in each of three mutually perpendicular directions.	1) No electrical discontinuity of more than 10 μs. 2) No damage, cracks or looseness of parts.	X	—
Breaking Strength		Force is applied to the cable in up, down, left and right directions while mated.	No breakage at 50 N.	X	—
ENVIRONMENTAL CHARACTERISTICS					
Damp Heat, Steady State		Subjected to a temperature of +40°C, at a humidity of 90 to 95% for 96 hours.	1) Insulation resistance: 10 MΩ MIN. (At high humidity) 2) Insulation resistance: 100 MΩ MIN. (When dry) 3) No damage, cracks or looseness of parts.	X	—
Rapid Change of Temperature		Temperature: -55 → R/T <sup>(1)</sup> → +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, cracks or looseness of parts.	X	—
Corrosion Salt Mist		Subjected to 5% salt spray for 48 hours.	No heavy corrosion which impairs functionality.	X	—
Dry Heat		Subjected to +85°C for 96 hours.	No damage, cracks or looseness of parts.	X	—
Cold		Subjected to -55°C for 96 hours.	No damage, cracks or looseness of parts.	X	—
Resistance to Soldering Heat		Soldering iron is placed to the soldering surface for 5±1 s. (Iron tip temperature +350±10°C)	No deformation or excessive looseness of terminals.	X	—
Solderability		Soldering iron is placed to the soldering surface for 2 to 3 s. (Iron tip temperature +350±10°C)	Soldering surface shall be free from pin-holes, dewetted and un-wetted areas and other defects.	X	—
Sealing <sup>(2)</sup>		Subjected to a depth of 1.8 m for 48 hours.	No water penetration into the connector.	X	—
Air Tightness <sup>(2)</sup>		17.6 kPa of air pressure applied to the inside of the mated connector for 30 seconds.	No air bubbles emitted from the inside of the connector.	X	—
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
<b>NOTES</b> (1) R/T : Room Temperature (2) Sealing and Air Tightness are tested in mated condition with an applicable connector. Unless otherwise specified, refer to IEC 60512. (JIS C 5402)			APPROVED	YH. YAMADA	17.03.08
			CHECKED	HY. KOBAYASHI	17.03.08
			DESIGNED	TY. SUZUKI	17.03.08
			DRAWN	THOMAS FORAN	17.03.08
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-119379-00-00
<b>HRS</b>	SPECIFICATION SHEET		PART NO.	LF13WBLP-20PA	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0031-0-00	△ 1/1