

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		
	Current	2 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.		15 mΩ max.	X	X
Insulation resistance	100 V DC.		1000 MΩ min.	X	X
Voltage proof	300 V AC. for 1 min.		No flashover or breakdown.	X	X
Mechanical characteristics					
Contact insertion and withdrawal forces	Measured with φ0.53±0.003 steel pin gage.		Insertion and withdrawal forces : 0.15 N min.	X	—
Connector insertion and Withdrawal forces	Connector mating and unmating forces Without locking device.		Insertion and withdrawal forces. Without locking device : 25 N max. With locking device : — N max.	X	—
Mechanical operation	Mated and unmated 1,000 times.		Contact resistance : 30 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.		① No electrical discontinuity of 10 μs. 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 10 μs. ② No damage, cracks or looseness of parts.	X	—
Breaking strength	MAX 100 N applied to the cable in up, down, left and right directions while mated.		No breakage max 100N.	X	—
Environmental characteristics					
Damp heat (Steady state)	Subjected to 40°C, at a humidity of 90~95% for 96h.		① Insulation resistance: 10 MΩ min. (At high humidity). ② Insulation resistance: 100 MΩ min. (At dry). ③ No damage, cracks or looseness of parts.	X	—
Rapid change of temperature	Temperature -55→R/T ⁽¹⁾ → +85→ R/T ⁽¹⁾ °C Time 30 → 2~3 → 30 → 2~3 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 48h.		No heavy corrosion which impairs functionality.	X	—
Heat Resistance	Subjected to +85°C for 96h.		No damage, cracks or looseness of parts.	X	—
Cold Resistance	Subjected to -55°C for 96h.		No damage, cracks or looseness of parts.	X	—
Resistance to soldering heat	Soldering iron is placed to the soldering surface for 5±1s. (Iron tip temperature +350±10°C)		No deformation or excessive looseness of terminals.	X	—
Solderability	Place soldering iron(Iron tip temperature +350±10°C) And solder to DIP area for 2 to 3 s.		Soldering surface shall be free from pin-holes, e-wetted and un-wetted areas and other defects.	X	—
Sealing ⁽²⁾	Subjected to a depth of 1.8m for 48h.		No water penetration into the connector.	X	—
Air tightness ⁽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	X
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
Q					
Remarks Notes(1)R/T : Room temperature (2) Sealing and Air Tightness shall be tested in mated condition with an applicable connector Unless otherwise specified, refer to IEC 60512(JIS C 5402).			APPROVED	EJ. KUNII	20190328
			CHECKED	EJ. KUNII	20190328
			DESIGNED	KN. IKEHARA	20190327
			DRAWN	KN. IKEHARA	20190327
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-387322-00-00
HRS	SPECIFICATION SHEET		PART NO.	LF07WBRB-6S	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0054-0-00	△ 1/1