

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	
Construction					
General Examination		Visually and by measuring instrument.		According to drawing.	
Marking		Confirmed visually.			
Electrical Characteristics					
Contact resistance		Contact measured at DC 1 A.		15 mΩ max.	
Insulation resistance		100 V DC.		1000 MΩ min.	
Voltage proof		300 V AC. for 1 min.		No flashover or breakdown.	
Mechanical characteristics					
Contact insertion and withdrawal forces		Measured with φ0.53±0.003 steel pin gage.		Insertion and withdrawal forces : 0.15 N min.	
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.	
Mechanical operation		Mated and unmated 1,000 times.		Contact resistance : 30 mΩ max.	
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.	
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.	
Breaking strength		MAX 100 N applied to the cable in up, down, left and right directions while mated.		No breakage max 100N.	
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.	
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.	
Corrosion salt mist		Subjected to 5% salt spray for 48h.		No heavy corrosion which impairs functionality.	
Heat Resistance		Subjected to +85° C for 96h.		No damage, cracks or looseness of parts.	
Cold Resistance		Subjected to -55° C for 96h.		No damage, cracks or looseness of parts.	
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.	
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.	
Sealing (2)		Subjected to a depth of 1.8m for 48h.		No water penetration into the connector.	
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.	
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
①					
Remarks			APPROVED	EJ. KUNII	20190328
Notes(1)R/T : Room temperature			CHECKED	EJ. KUNII	20190328
(2) Sealing and Air Tightness shall be tested in mated condition with an applicable connector			DESIGNED	KN. IKEHARA	20190327
Unless otherwise specified, refer to IEC 60512(JIS C 5402).			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