

APPLICABLE STANDARD		UL approved(E52653) 					
Rating	Operating Temperature Range	-25°C to +85°C		Storage Temperature Range	-10°C to +60°C		
	Voltage	AC,DC 125 V AC,DC 250 V (UL) 		Wire Size	16 AWG MAX		
	Current	10 A		Applicable Cable	_____		
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.		5 mΩ MAX.		X	X
Insulation Resistance		Measured at 500 V DC.		1000 MΩ MIN.		X	X
Voltage Proof		1000 V AC applied for 1 min.		No flashover or breakdown.		X	X
MECHANICAL CHARACTERISTICS							
Contact Insertion and Extraction Forces		Measured with a $\phi 0.872^{+0.003}_0$ steel gauge.		Insertion and extraction forces: 0.2 N MIN.		X	—
Mating and Unmating Forces		Measured with an applicable connector.		Mating and unmating forces : 30 N MAX. (Without lock)		X	—
Mechanical Operation		Mated and unmated 500 times.		Contact resistance: 10 mΩ MAX.		X	—
Vibration		Frequency: 10 Hz to 55 Hz to 10 Hz Single amplitude: 0.75 mm Performed over 10 cycles, at 5 minutes per cycle, 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 ² , 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	—
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 ⁽¹⁾ → +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, de-wetted and un-wetted areas and other defects.		X	—
Sealing ⁽²⁾		Subjected to a depth of 1.8 m for 48 hours.		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 30 seconds.		No air bubbles emitted from the inside of the connector.		X	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
	2	DIS-C-00003269		KN. IKEHARA		HN. TANAKA	20190614
NOTES (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		20180518
				CHECKED	HY. KOBAYASHI		20180518
				DESIGNED	HY. KISHI		20180518
				DRAWN	HY. KISHI		20180518
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-383065-00-00	
	SPECIFICATION SHEET			PART NO.		LF10WBRB-4S	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL136-1123-0-00	 1/1