

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 $\phi 0.872 \begin{matrix} +0.003 \\ 0 \end{matrix}$ 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			APPROVED	YH. YAMADA	20180518
(1) R/T : Room Temperature			CHECKED	HY. KOBAYASHI	20180518
(2) Sealing and Air Tightness are tested in mated condition with an applicable connector.			DESIGNED	HY. KISHI	20180518
Unless otherwise specified, refer to IEC 60512. (JIS C 5402)			DRAWN	HY. KISHI	20180518
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-383065-00-00
HRS	SPECIFICATION SHEET		PART NO.	LF10WBRB-4S	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-1123-0-00	▲ 1/1