

APPLICABLE STANDARD							
RATING	Operating Temperature Range	-25°C to +85°C (95%RH MAX)		Storage Temperature Range	-10°C to +60 °C (95%RH MAX)		
	Voltage	AC 30 V , DC 42 V		Wire size	MAX AWG#26		
	Current	2 A		Applicable Cable	φ 7.3±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 1 A MAX (DC or 1 000 Hz).			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 Extraction forces	Measured with a φ — steel gauge.			Insertion force — N MAX.		—	—
				Extraction force — N MIN.		—	—
Mating and Unmating Forces	Measured with an applicable connector.			Mating force 50 N MAX.		X	—
				Unmating force 50 N MAX.		X	—
Mechanical Operation	Mated and unmated 1000 times.			1) Contact resistance: 30 mΩ MAX. 2) No damage, cracks or looseness of parts.		X	—
Vibration	Frequency: 10 Hz to 55 Hz Single amplitude: 0.75 mm Acceleration: 98 m/s ² 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	—
Breaking Strength	Max 50 N shall be applied to cable in up and down, left and right directions when mated.			No breakage .50N MAX		X	—
ENVIRONMENTAL CHARACTERISTICS							
Damp Heat (Steady State)	Subjected to 40 °C, 90 ~ 95 % for 96 h.			1) Insulation resistance: 10 MΩ MIN (At high humidity). 2) insulation resistance: 100 MΩ MIN (When dry). 3) No damage, crack 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 water spray for 48 h.			No heavy corrosion which impairs functionality.		X	—
Dry Heat	Subjected to + 85 °C for 96 h.			No damage, cracks or looseness of parts.		X	—
Cold	Subjected to - 55 °C for 96 h.			No damage, cracks or looseness of parts.		X	—
Resistance to Soldering Heat	Solder temperature, +350±10°C, for immersion duration, 5±1 s.			No deformation or case of excessive looseness of terminals.		X	—
Solderability	Soldered at solder temperature, +350±10°C for immersion duration, 2 to 3 s.			The solder shall have wetted the soldering surface and there shall be no small lumps of solder.		X	—
Sealing ⁽²⁾	Subjected at A depth of 1.8 m for 48 h.			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	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE	
	0						
NOTES				APPROVED	HY.KOBAYASHI	18.02.22	
(1) R/T : Room Temperature				CHECKED	HY.KOBAYASHI	18.02.22	
(2) Sealing and airtightness shall be tested under mated condition with an applicable connector.				DESIGNED	TY.SUZUKI	18.02.21	
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).				DRAWN	HM.SAITO	18.02.19	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-118147-31-00	
HRS	SPECIFICATION SHEET			PART NO.	LF10WBLP-12PA(31)		
	HIROSE ELECTRIC CO., LTD.			CODE NO.	CL136-0025-0-31		1/1