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 than10 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.		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 ℃, 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 ℃ 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 ℃ for 96 h.	No damage, cracks or looseness of parts.	X	–
Cold	Subjected to - 55 ℃ for 96 h.	No damage, cracks or looseness of parts.	X	–
Resistance to Soldering Heat	Solder temperature, +350±10℃, for immersion duration, 5±1 s.	No deformation or case of excessive looseness of terminals.	X	–
Solderability	Soldered at solder temperature, +350±10℃ 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
A					

NOTES
(1) R/T : Room Temperature
(2) Sealing and airtightness shall be tested under mated condition with an applicable connector.
Unless otherwise specified, refer to IEC 60512（JIS C 5402).

APPROVED	HY.KOBAYASHI	18.02.22
CHECKED	HY.KOBAYASHI	18.02.22
DESIGNED	TY.SUZUKI	18.02.21
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	A 1/1

FORM HD0011-2-1