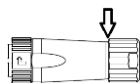




APPLICABLE STANDARD					
Rating	Operating Temperature Range	-25°C to +85°C	Storage Temperature Range	-10°C to +60°C	
	Voltage	AC 30 V, DC 42 V	Wire Size	26 to 30 AWG Insulation outside diameter ϕ 1 MAX	
	Current	2A	Applicable Cable	-	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
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.		30 m Ω MAX.	X	-
Insulation Resistance	Measured at 100 V DC.		1000 M Ω MIN.	X	-
Voltage Proof	300 V AC applied for 1 min.		No breakdown.	X	-
MECHANICAL CHARACTERISTICS					
Contact Insertion and Extraction Forces	Measured with a - steel gauge.		Insertion and extraction forces: - N MIN.	X	-
Connector Insertion and Withdrawal Forces	Measured with an applicable connector. (Without lock)		Insertion and withdrawal forces : 50 N MAX.	X	-
Mechanical Operation	Mated and unmated 1000 times.		Contact resistance: 50 m Ω MAX.	X	-
Vibration	Frequency: 10 Hz to 55 to 10 Hz every cycle (5 min per cycle) Single amplitude: 0.75 mm Performed over 10 cycles in each of three mutually perpendicular directions.		1) No electrical discontinuity of more than 10 μ s. 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 μ s. 2) No damage, cracks or looseness of parts.	X	-
Breaking Strength	Force is applied to the plug body in up, down, left and right directions while mated. 		No breakage at 100 N.	X	-
Contact Retention Force	Applying a pull force the wire after the applicable crimped contact is assembled the body.		20 N MIN.	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 M Ω MIN. (At high humidity) 2) Insulation resistance: 100 M Ω MIN. (When dry) 3) No damage, cracks or looseness of parts.	X	-
Rapid Change of Temperature	Temperature: -55 \rightarrow R/T ⁽¹⁾ \rightarrow +85 \rightarrow R/T °C Time: 30 \rightarrow 2 to 3 \rightarrow 30 \rightarrow 2 to 3 min for 5 cycles.		1) Insulation resistance: 100 M Ω 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. (compatibility)	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	-
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
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	EJ. KUNII	20220301
			CHECKED	EJ. KUNII	20220301
			DESIGNED	TR. YAMANOE	20220228
			DRAWN	TR. YAMANOE	20220228
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-383069-00-00
		SPECIFICATION SHEET		PART NO.	LF13WBRB-20PC
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL0136-1124-0-00		1/1