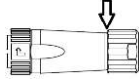





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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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			APPROVED	EJ. KUNII	20220301
(1) R/T : Room Temperature			CHECKED	EJ. KUNII	20220301
(2) Sealing and Air Tightness are tested in mated condition with an applicable connector.			DESIGNED	TR. YAMANOUE	20220228
Unless otherwise specified, refer to IEC 60512. (JIS C 5402)			DRAWN	TR. YAMANOUE	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