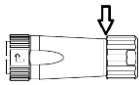


APPLICABLE STANDARD					
Rating	Operating Temperature Range	-25°C to +85°C	Storage Temperature Range	-10°C to +60°C	
	Voltage	AC 30 V, DC 42 V	Wire Size	26 to 30 AWG Insulation outside diameter ϕ 1 MAX	
	Current	2A	Applicable Cable	-	
SPECIFICATIONS					
ITEM		TEST METHOD	REQUIREMENTS	QT	AT
CONSTRUCTION					
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 ϕ 5.3 $\pm$ 0.003 steel gauge.	Insertion and extraction forces: 0.15 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
0					
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-384950-00-00
 SPECIFICATION SHEET HIROSE ELECTRIC CO., LTD.		PART NO.	LF13WBRB-20SC		
		CODE NO.	CL0136-1033-0-00		1/1