

APPLICABLE STANDARD		SPECIFICATIONS					
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			
	CURRENT	2 A		APPLICABLE CABLE			
CONSTRUCTION							
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.		X X		
MARKING	CONFIRMED VISUALLY.				X X		
ELECTRIC CHARACTERISTICS							
CONTACT RESISTANCE	CONTACT SHALL BE MEASURED AT DC 1 A		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 WITHDRAWAL FORCES	φ 0.68 ^{+0.003} ₀ BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.2 N MIN.		X —		
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.		INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH UNLOCK : 25 N MAX. LOCKING DEVICE WITH LOCK : — N MAX.		X —		
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 30 mΩ MAX.		X —		
VIBRATION	FREQUENCY: 10 → 55 → 10 (Hz) (1CYC, 5min), SINGLE AMPLITUDE 0.75 mm, AT 10 CYC, FOR 3 DIRECTIONS.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X —		
SHOCK	IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X —		
BREAKING STRENGTH	MAX 100 N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.		NO BREAKAGE MAX 100N.		X —		
ENVIRONMENTAL CHARACTERISTICS							
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 96 h.		① INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ② INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③ NO DAMAGE, CRACK AND 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 UNDER 5 CYCLES.		① INSULATION RESISTANCE: 100 MΩ MIN.. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.		NO HEAVY CORROSION RUINS THE FUNCTION.		X —		
DRY HEAT	EXPOSED AT + 85 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
COLD	EXPOSED AT - 55 °C, 96 h.		NO DAMAGE, CRACK AND LOOSENESS OF PARTS.		X —		
RESISTANCE TO SOLDERING HEAT	PLACE SOLDERING IRON(IRON TIP TEMPERATURE +350±10°C) AND SOLDER TO DIP AREA FOR 5±1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X —		
SOLDERABILITY	PLACE SOLDERING IRON(IRON TIP TEMPERATURE +350±10°C) AND SOLDER TO DIP AREA FOR 2 TO 3 s.		A SOLDERING SIDE IS TO BE WET WITH SOLDER. AND, NO SMALL LUMP OF THE SOLDER.		X —		
SEALING ⁽²⁾	EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.		X —		
AIR TIGHTNESS ⁽²⁾	APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.		X —		
COUNT	DESCRIPTION OF REVISIONS		DESIGNED	CHECKED	DATE		
0							
REMARK				APPROVED	HY. KOBAYASHI		
NOTES (1) R/T : ROOM TEMPERATURE				CHECKED	HY. KOBAYASHI		
(2) SEALING AND AIRTIGHTNESS SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.				DESIGNED	TY. SUZUKI		
Unless otherwise specified, refer to IEC 60512(JIS C 5402).				DRAWN	HM. SAITO		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-119579-31-00		
HRS	SPECIFICATION SHEET		PART NO.	LF07WBRB-3SD (31)			
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-1025-0-31	1/1		