

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	_____	
	CURRENT	2 A		APPLICABLE CABLE	φ 5	
SPECIFICATIONS						
ITEM		TEST METHOD		REQUIREMENTS		QT AT
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		φ0.53±0.003 BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.		X —
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.		INSERTION AND WITHDRAWAL FORCES : 25 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.		①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X —
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X —
BREAKING STRENGTH		MAX 100N 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 <sup>(1)</sup> → +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		SOLDER TEMPERATURE, +350±10°C, FOR IMMERSION DURATION, 5±1 s.		NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.		X —
SOLDERABILITY		SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.		SOLDER SURFACE TO BE FREE FROM PIN-HOLE, NO WETTING AND OTHER DEFECTS.		X —
SEALING <sup>(2)</sup>		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.		X —
AIR TIGHTNESS <sup>(2)</sup>		APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.		X —
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
①						
NOTES (1) R/T : ROOM TEMPERATURE (2) SEALING AND AIR TIGHTNESS SHALL BE TESTED UNDER MATED CONDITION WITH AN APPLICABLE CONNECTOR.				APPROVED	HY. KOBAYASHI	18.02.22
				CHECKED	HY. KOBAYASHI	18.02.22
				DESIGNED	TY. SUZUKI	18.02.21
				DRAWN	HM. SAITO	18.02.19
Unless otherwise specified, refer to IEC 60512 (JIS C 5402).						
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-117383-31-00
HRS	SPECIFICATION SHEET		PART NO.	LF07WBPD-6S (31)		
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0020-6-31	△	1/1