

	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE		COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE
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APPLICABLE STANDARD											
RATING	OPERATING TEMPERATURE RANGE		-25 °C TO +85 °C			STORAGE TEMPERATURE RANGE		-25 °C TO +85 °C			
	VOLTAGE		AC 30 V , DC 42 V			WIRE SIZE		MAX AWG#26			
	CURRENT		2 A			APPLICABLE CABLE		φ7.3±0.2			
SPECIFICATIONS											
ITEM		TEST METHOD				REQUIREMENTS				QT	AT
CONSTRUCTION											
GENERAL EXAMINATION		VISUALLY AND BY MEASURING INSTRUMENT.				ACCORDING TO DRAWING.				○	○
MARKING		CONFIRMED VISUALLY.								○	○
ELECTRIC CHARACTERISTICS											
CONTACT RESISTANCE		CONTACT SHALL BE MEASURED AT DC 1 A				15 mΩ MAX.				○	○
		CONTACT SHALL BE MEASURED AT DC — A				— mΩ MAX.				—	—
INSULATION RESISTANCE		100 V DC.				1000 MΩ MIN.				○	○
VOLTAGE PROOF		300 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				○	○
MECHANICAL CHARACTERISTICS											
CONTACT INSERTION AND WITHDRAWAL FORCES		— BY STEEL GAUGE.				INSERTION AND WITHDRAWAL FORCES : — N MIN.				—	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.				INSERTION AND WITHDRAWAL FORCES : 50 N MAX.				○	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.				CONTACT RESISTANCE: 30 mΩ MAX.				○	—
						— RESISTANCE: — mΩ MAX.				—	—
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.				○	—
SHOCK		IN OPPOSITE DIRECTIONS OF EACH 3 DIMENSION AXIS FOR 3 TIMES AT 490 m/s ² DURACTIONS OF PULSE 11 ms.				①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—
BREAKING STRENGTH		MAX 100 N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.				NO BREAKAGE MAX 100N.				○	—
ENVIRONMENTAL CHARACTERISTICS											
DAMP HEAT (STEADY STATE)		EXPOSED AT 40 °C, 90 TO 95 %, 96 h.				①INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY). ②INSULATION RESISTANCE: 100 MΩ MIN (AT DRY). ③NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—
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.				①INSULATION RESISTANCE: 100 MΩ MIN. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				NO HEAVY CORROSIN.				○	—
DRY HEAT		EXPOSED AT +85 °C , 96 h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—
COLD		EXPOSED AT -55 °C , 96 h.				NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				○	—
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.				○	—
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.				○	—
SEALING		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.				NO WATER PENETRATION INSIDE CONNECTOR.				○	—
AIR TIGHTNESS		APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.				NO AIR BUBBLES INSIDE CONNECTOR.				○	○
REMARKS						DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
						Kabe	H.Zemba	M.Sato	M.Yoshida		
NOTE(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.						105.5.11	05.05.13	05.05.13	05.05.13		
Note QT:Qualification Test AT:Assurance Test ○:Applicable Test											
HRS HIROSE ELECTRIC CO., LTD.						SPECIFICATION SHEET			PART NO. LF10WBJ-12P		
CODE NO. (OLD) CL			DRAWING NO. ELC4-114250			CODE NO. CL136-2007-9			1/1		