

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	φ8.7±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 CORROSION.			○	—
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
NOTE(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402. Note QT:Qualification Test AT:Assurance Test ○:Applicable Test					k.abe	H.Zemba	M.Sato	M.ogashida	
					05.5.11	05.05.13	05.5.13	05.05.16	
HS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. LF13WBP-20P	
CODE NO. (OLD) CL		DRAWING NO. ELC4-114374			CODE NO. CL136-0010-2			1 1	