





APPLICABLE STANDARD		UL approved (E52653).			
RATING	OPERATING TEMPERATURE RANGE	-25°C TO +85°C		STORAGE TEMPERATURE RANGE	-10°C TO +60°C
	VOLTAGE 	AC 125 V , DC 175 V AC 175 V , DC 175 V (UL)		WIRE SIZE	MAX AWG#20
	CURRENT	5 A		APPLICABLE CABLE	φ5±0.2
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
		CONTACT SHALL BE MEASURED AT DC — A		— mΩ MAX.	— —
INSULATION RESISTANCE		500 V DC.		1000 MΩ MIN.	X X
VOLTAGE PROOF		1250 V AC FOR 1 min.		NO FLASHOVER OR BREAKDOWN.	X X
MECHANICAL CHARACTERISTICS					
CONTACT INSERTION AND WITHDRAWAL FORCES		φ0.68 ^{+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 : 25 N MAX.	X —
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 30 mΩ MAX. — RESISTANCE: — 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 EATH 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 100 N.	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 RUIN 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		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.	X —
AIR TIGHTNESS		APPLY AIR PRESSURE 17.6 kPa FOR 0.5 min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.	X —
	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
	1	DIS-C-00003656	KN. IKEHARA	HN. TANAKA	20191114
REMARK			APPROVED	HY. KOBAYASHI	20180315
NOTE(1) R/T : ROOM TEMPERATURE			CHECKED	HY. KOBAYASHI	20180315
			DESIGNED	TY. SUZUKI	20180315
Unless otherwise specified, refer to IEC 60512.(JIS C 5402)			DRAWN	TY. SUZUKI	20180315
Note QT:Qualification Test AT:Assurance Test X:Applicable Test			DRAWING NO.		ELC-114146-31-00
	SPECIFICATION SHEET		PART NO.	LF07WBP-3S (31)	
	HIROSE ELECTRIC CO., LTD.		CODE NO.	CL136-0003-7-31	 1/1