



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	φ5		
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.		×	×
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		φ0.53±0.003 BY STEEL GAUGE.		INSERTION AND WITHDRAWAL FORCES : 0.15 N MIN.		×	—
CONNECTOR INSERTION AND WITHDRAWAL FORCES		MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.		INSERTION AND WITHDRAWAL FORCES : 25 N MAX.		×	—
MECHANICAL OPERATION		1000 TIMES INSERTIONS AND EXTRACTIONS.		CONTACT RESISTANCE: 30 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 DURATIONS OF PULSE 11 ms.		① NO ELECTRICAL DISCONTINUITY OF 10 μs. ② NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		×	—
BREAKING STRENGTH		MAX 100N 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.		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.		×	—
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.		×	—
CORROSION SALT MIST		EXPOSED IN 5 % SALT WATER SPRAY FOR 500 h.		NO HEAVY CORROSION RUIN THE FUNCTION.		×	—
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 ⁽²⁾		EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.		NO WATER PENETRATION INSIDE CONNECTOR.		×	—
AIR TIGHTNESS ⁽²⁾		APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.		NO AIR BUBBLES INSIDE CONNECTOR.		×	—
	COUNT	DESCRIPTION OF REVISIONS		DESIGNED		CHECKED	DATE
0							
NOTES Unless otherwise specified, refer to IEC 60512 (JIS C 5402).				APPROVED	TP. KOMATSU	20231227	
				CHECKED	EJ. KUNII	20231227	
				DESIGNED	MK. WADA	20231227	
				DRAWN	MK. WADA	20231227	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test				DRAWING NO.		ELC-117383-33-00	
	SPECIFICATION SHEET			PART NO.		LF07WBPD-6S (33)	
	HIROSE ELECTRIC CO., LTD.			CODE NO.		CL0136-0020-6-33	 1/1