

COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	COUNT	DESCRIPTION OF REVISIONS	BY	CHKD	DATE	
△					△					
△					△					
APPLICABLE STANDARD										
RATING	OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C			OPERATING TEMPERATURE RANGE	-25 °C TO +85 °C				
	VOLTAGE	AC 30 V , DC 42 V								
	CURRENT	2 A			APPLICABLE CABLE	φ6.2 TO φ7				
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	100 V DC.				1000 MΩ MIN.				X	X
VOLTAGE PROOF	300 V AC FOR 1 min.				NO FLASHOVER OR BREAKDOWN.				X	X
MECHANICAL CHARACTERISTICS										
CONNECTOR INSERTION AND WITHDRAWAL FORCES	MEASURED BY APPLICABLE CONNECTOR.				INSERTION AND WITHDRAWAL FORCES LOCKING DEVICE WITH LOCK : 50 N MAX.				X	—
MECHANICAL OPERATION	1000 TIMES INSERTIONS AND EXTRACTIONS.				CONTACT RESISTANCE: 30 mΩ MAX.				X	—
					RESISTANCE: mΩ MAX.				—	—
VIBRATION	FREQUENCY 10 TO 55 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 DEMENSION AL AXIS FOR 3 TIMES AT 490 m/s ² DURATIONS OF PULSE 11 ms.				①NO ELECTRICAL DISCONTINUITY OF 10 μs. ②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.				X	—
BREAKING STRENGTH	MAX 30N SHALL BE APPLIED TO CABLE IN UP AND DOWN, LEFT AND RIGHT DIRECTIONS WHEN MATED.				NO BREAKAGE MAX 30N.				X	—
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.				X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55→R/T ⁽¹⁾ →+85→R/T °C TIME 30→10 TO 15→30→10 TO 15 min UNDER 5 CYCLES.				①INSULATION RESISTANCE: 100 MΩ MIN. ②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.				X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.				NO HEAVY CORROSIN.				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, +380±10°C ,FOR IMMERSION DURATION, 3 ⁺¹ ₀ 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 m FOR 0.5 h.				NO WATER PENETRATION INSIDE CONNECTOR.				X	—
AIRTIGHTNESS	APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.				NO AIR BUBBLES INSIDE CONNECTOR.				X	—
REMARKS					DRAWN	DESIGNED	CHECKED	APPROVED	RELEASED	
NOTE(1) R/T : ROOM TEMPERATURE Unless otherwise specified, refer to JIS C 5402.					D. Matsume '06.05.11	D. Matsume '06.05.11	E. Kuri '06.05.11	M. Sato '06.05.11		
Note QT:Qualification Test AT:Assurance Test X:Applicable Test										
HRS HIROSE ELECTRIC CO., LTD.					SPECIFICATION SHEET			PART NO. HR30-8P-12P(71)		
CODE NO. (OLD) CL		DRAWING NO. ELC4-113522-71			CODE NO. CL130-0026-4-71			1 1		

