

In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

APPLICABLE STANDARD		ANSI/TIA/EIA-568-B.2.10		CAT6a	
RATING	OPERATING TEMPERATURE RANGE	① -25 °C TO 60 °C		STORAGE TEMPERATURE RANGE	-25 °C TO 60 °C
	VOLTAGE	125 V AC		OPERATING HUMIDITY RANGE	95 % MAX
CURRENT	1 A		APPLICABLE CABLE	AWG# 24 ~ AWG# 27	
SPECIFICATIONS					
ITEM	TEST METHOD	REQUIREMENTS			
CONSTRUCTION			GENERAL EXAMINATION		
VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.			
MARKING		CONFIRMED VISUALLY.			
ELECTRIC CHARACTERISTICS					
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ AC).	50 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE)		X	X
<p>(ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.)</p>					
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.		X	X
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.		X	X
MECHANICAL CHARACTERISTICS					
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	② 1)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 2)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
VIBRATION	FREQUENCY 10 TO 55HZ, SINGLE AMPLITUDE 0.75 mm. AT 2h, FOR 3 DIRECTIONS.	② 1)NO ELECTRICAL DISCONTINUITY OF 1 μs. 2)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 3)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
SHOCK	490 ms ² DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	③ 1)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
ENVIRONMENTAL CHARACTERISTICS					
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 500h.	② 1)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 2)INSULATION RESISTANCE: 1 MΩ MIN.(AT HIGH HUMIDITY) 10MΩ MIN.(AT DRY) 3)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE: -55 → 15 TO 35 → 85 → 15 TO 35 °C TIME: 30 → 2 TO 3 → 30 → 2 TO 3 min. UNDER 5 CYCLES.	② 1)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 2)INSULATION RESISTANCE: 100 MΩ MIN. 3)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
CORROSION SALT MIST	EXPOSED IN 5% SALT WATER SPRAY FOR 48 h.	② 1)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 2)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.		X	—
① THE OPERATION TEMPERATURE INCLUDES THE TEMPERATURE RISE BY CURRENT CARRYING. ② TEMPERATURE RANGE FOR A CONNECTOR UNMATED. ③ USE UNDER THE CONDITION RECOMMENDED BY A CABLE MANUFACTURE.					
COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE	
6	DIS-E-004367	SG. CHAMURA	EJ. WAKATSUKI	12.09.24	
REMARK					
Unless otherwise specified, refer to JIS C 5402.		APPROVED	YH. EMAMI	09.01.26	
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		CHECKED	YH. EMAMI	09.01.26	
		DESIGNED	MT. ITANO	09.01.26	
		DRAWN	MT. ITANO	09.01.26	
DRAWING NO.		ELC4-126868-00			
SPECIFICATION SHEET		PART NO.	TM31P-TM-88P		
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL222-4626-7-00		
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