

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	
<b>SPECIFICATIONS</b>				
ITEM	TEST METHOD	REQUIREMENTS	QT	AT
<b>CONSTRUCTION</b>				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.		ACCORDING TO DRAWING.	
MARKING	CONFIRMED VISUALLY.		X	X
<b>ELECTRIC CHARACTERISTICS</b>				
CONTACT RESISTANCE	100 mA (DC OR 1000 HZ AC).	50 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) ①	X	X
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	X	X
VOLTAGE PROOF	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
<b>MECHANICAL CHARACTERISTICS</b>				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	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.	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 <sup>2</sup> DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	① ② CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) ③ NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
<b>ENVIRONMENTAL CHARACTERISTICS</b>				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 500h.	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.	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.	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
Δ 6	DIS-E-004367	SG. CHAMURA	EJ. WAKATSUKI	12.09.24
REMARK				
Unless otherwise specified, refer to JIS C 5402.		APPROVED	YH. EMAMI	09.06.02
Note QT:Qualification Test AT:Assurance Test X:Applicable Test		CHECKED	YH. EMAMI	09.06.02
DRAWING NO.		DESIGNED	MT. ITANO	09.06.02
ELC4-126868-01		DRAWN	MT. ITANO	09.06.02
<b>HRS</b>				
SPECIFICATION SHEET		PART NO.	TM31P-TM-88P (01)	
HIROSE ELECTRIC CO., LTD.		CODE NO.	CL222-4626-7-01	Δ 1/1

