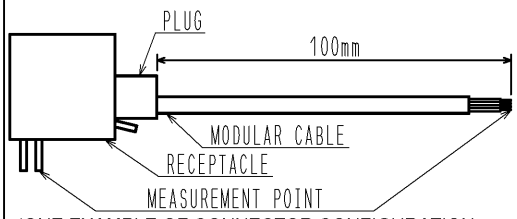
Oct.1.2022 Copyright 2022 HIROSE ELECTRIC CO., LTD. All Rights Reserved.
In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

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	QT	AT
CONSTRUCTION				
GENERAL EXAMINATION	VISUALLY AND BY MEASURING INSTRUMENT.	ACCORDING TO DRAWING.	X	X
MARKING	CONFIRMED VISUALLY.		X	X
ELECTRIC CHARACTERISTICS				
CONTACT RESISTANCE	100 mA (DC OR 1000 Hz AC).  (ONE EXAMPLE OF CONNECTOR CONFIGURATION IS SHOWN.)	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
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS. 1	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	1)NO ELECTRICAL DISCONTINUITY OF 1 μs. 2)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE)	X	—
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.	3)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT 40 °C, 90 TO 95 %, 500h. 1	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. 1	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	1)CONTACT RESISTANCE: 70 mΩ MAX. (WITHOUT BULK RESISTANCE OF CABLE) 2)NO DAMAGE, CRACK AND LOOSENESS, OF PARTS.	X	—

1 ①THE OPERATION TEMPERATURE INCLUDES THE TEMPERATURE RISE BY CURRENT CARRYING.
②TEMPERATURE RANGE FOR A CONNECTOR UNMATED.
③USE 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. ENAMI	09. 06. 02
CHECKED	YH. ENAMI	09. 06. 02
DESIGNED	MT. ITANO	09. 06. 02
DRAWN	MT. ITANO	09. 06. 02

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-126868-01

HRS	SPECIFICATION SHEET	PART NO.	TM31P-TM-88P(01)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL222-4626-7-01 ⚠	1/1

FORM HD0011-2-1