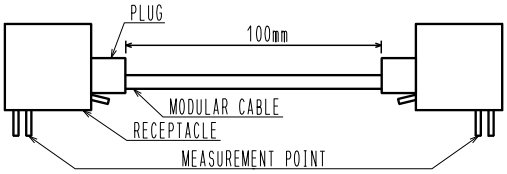
APPLICABLE STANDARD		1 TIA / EIA – 568 – B.2 CAT5e		
RATING	OPERATING TEMPERATURE RANGE	2 2 -55 °C TO 85 °C	STORAGE TEMPERATURE RANGE	3 -25 °C TO 60 °C
	VOLTAGE	AC 125 V	CURRENT	1 A

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 MAX (DC OR 1000 Hz).  (ONE EXAMPLE CONNECTOR CONFIGURTION IS SHOWN.)	230 mΩ MAX.	X	X
INSULATION RESISTANCE	100 V DC.	100 MΩ MIN.	X	X
VOLTAGE PROOF (CONTACT TO CONTACT)	500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	X
VOLTAGE PROOF (CONTACT TO SHIELD)	1500 V AC FOR 1 min.	NO FLASHOVER OR BREAKDOWN.	X	—
NEAR END CROSSTALK (NEXT) LOSS	MEASURED MINIMUM NEXT LOSS FOR EACH. PAIR COMBINATION AT 100 Hz.	43 dB MIN	X	—
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	1)CONTACT RESISTANCE: 250 mΩ MAX. 2)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
VIBRATION	FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 DIRECTIONS.	1)NO ELECTRICAL DISCONTINUITY OF 5 μs. 2)CONTACT RESISTANCE: 250 mΩ MAX. 3)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
SHOCK	490 m/s^2 DIRECTIONS OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS.		X	—
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT (STEADY STATE)	EXPOSED AT +40 °C, 90 TO 95 % , 500 h.	1)CONTACT RESISTANCE: 250 mΩ MAX. 2)INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) 10 MΩ MIN. (AT DRY) 3)NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	—
RAPID CHANGE OF TEMPERATURE	TEMPERATURE -55±3 → 5 TO 35 → 85±2 → 5 TO 35 °C TIME 30 → 5 MAX → 3 0 → 5 MAX min UNDER 5 CYCLES.	1)CONTACT RESISTANCE: 250 mΩ MAX. 2)INSULATION RESISTANCE: 100 MΩ MIN. 3)NO DAMAGE, CRACK AND LOOSENESS OF PART	X	—
CORROSION SALT MIST	EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.	1)CONTACT RESISTANCE: 250 mΩ MAX. 2)NO HEAVY CORROSION.	X	—
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 3 °C FOR IMMERSION, DURATION 5 TO 6 S. (FLOW)	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.	X	—
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 °C FOR IMMERSION, DURATION 3 S. (FLOW)	MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.	X	—

1 APPLICABLE PLUG CONNECTOR:TM21P-88P.

2 THE OPERATION TEMPERATURE INCLUDES THE RISE BY CURRENT CARRYING.

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
A	1	DIS-E-00002148	SH. KOYAMA	TU. TANIGUCHI	20190305

REMARK

3 STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS. FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.

Unless otherwise specified, refer to JIS C 5402.

APPROVED	HO. MIWA	20050105
CHECKED	TH. KAMEYA	20050105
DESIGNED	SS. SATOH	20050105
DRAWN	SS. SATOH	20050105

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

DRAWING NO. ELC4-122763-02

HRS	SPECIFICATION SHEET	PART NO.	TM21R-3C-88(51)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL222-2895-8-51	A 1/1

FORM HD0011-2-1