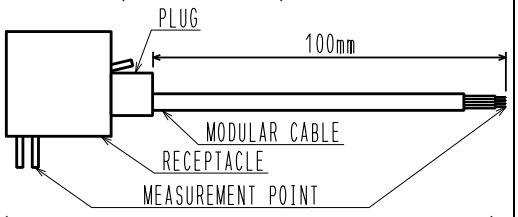
APPLICABLE STANDARD		1 TIA/EIA-568-A CAT5		
RATING	OPERATING TEMPERATURE RANGE	2 −55 °C TO 85 °C⚠1	STORAGE TEMPERATURE RANGE	3 −25 °C TO 60 °C
	VOLTAGE	125 V AC	OPERATING HUMIDITY RANGE	95 % MAX
	CURRENT	1 A	APPLICABLE CABLE	−

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 AC).  (AN EXAMPLE CONNECTOR CONFIGURATION IS SHOWN.)	50 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 (1,2-3,6) AT 100 MHz.	40 dB MIN.	X	−
MECHANICAL CHARACTERISTICS				
MECHANICAL OPERATION	200 TIMES INSERTIONS AND EXTRACTIONS.	1) CONTACT RESISTANCE : 70 mΩ MAX. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	−
VIBRATION	FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, 1 OCTABE / min, 3 AXIAL DIRECTIONS, 10 CYCLES EACH.	1) NO ELECTRICAL DISCONTINUITY OF 5 μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.	X	−
SHOCK	490 m/s² DURATION OF PULSE 11 ms AT 3 TIMES FOR 6 DIRECTIONS.		X	−
ENVIRONMENTAL CHARACTERISTICS				
DAMP HEAT,CYCLIC	EXPOSED AT 40 °C, 90 TO 95 % , 500 h	1) CONTACT RESISTANCE : 70 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 → 15 TO 35 → 85±2 → 15 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES.	1) CONTACT RESISTANCE : 70 mΩ MAX. 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. 2)NO HEAVY CORROSION.	X	−
RESISTANCE TO SOLDERING HEAT	SOLDER TEMPERATURE, 260 ± 5 °C FOR IMMERSION, DURATION 5 ± 1 S.	NO DEFORMATION OF CASE AND EXCESSIVE LOOSENESS OF THE TERMINALS.	X	−
SOLDERABILITY	SOLDERED AT SOLDER TEMPERATURE, 245 ±5 °C FOR IMMERSION, DURATION MAX 3 S.	MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING.	X	−

	COUNT	DESCRIPTION OF REVISIONS	DESIGNED	CHECKED	DATE
⚠1	2	DIS-E-00002932	KIM JAEHYEON	TU.TANIGUCHI	20200403

REMARK
1 APPLICABLE PLUG CONNECTOR:TM21P-88P.
2 THE OPERATION TEMPERATURE INCLUDES THE TEMPERATURE RISE BY CURRENT CARRYING. STORAGE TEMPERATURE RANGE SHOWS STORAGE CONDITION FOR UNUSED PRODUCTS INCLUDING PACKING MATERIALS.
3 FOLLOW THE OPERATING TEMPERATURE RANGE FOR STORAGE CONDITION AFTER MOUNTING.
Unless otherwise specified, refer to IEC 60512. ⚠1

APPROVED	EJ.WAKATSUKI	20131028
CHECKED	EJ.WAKATSUKI	20131028
DESIGNED	MT.ITANO	20131025
DRAWN	MT.ITANO	20131025

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

DRAWING NO. ELC-123343-01-03

HRS	SPECIFICATION SHEET	PART NO.	TM11R-5M2-88(01)	
	HIROSE ELECTRIC CO., LTD.	CODE NO.	CL222-2906-2-01 ⚠1	1/1

FORM HD0011-2-1