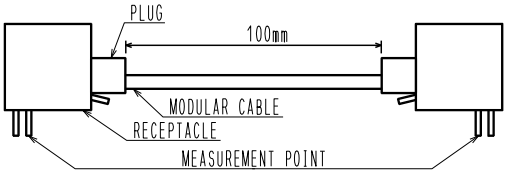
| | | | | |
|---|---|---|---|---|
| APPLICABLE STANDARD | | 1 TIA / EIA – 568 – B.2 CAT5e | | |
| RATING | OPERATING TEMPERATURE RANGE | 4 2 -55 °C TO 85 °C | STORAGE TEMPERATURE RANGE | 3 -25 °C TO 60 °C |
| | VOLTAGE | AC 125 V | CURRENT | 1 A |

# 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).<br>  <br><br>(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.<br>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.<br>2)CONTACT RESISTANCE: 250 mΩ MAX.<br>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.<br>2)INSULATION RESISTANCE:<br>1 MΩ MIN. (AT HIGH HUMIDITY)<br>10 MΩ MIN. (AT DRY)<br>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<br>TIME 30 → 5 MAX → 3 0 → 5 MAX min<br>UNDER 5 CYCLES. | 1)CONTACT RESISTANCE: 250 mΩ MAX.<br>2)INSULATION RESISTANCE: 100 MΩ MIN.<br>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.<br>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 | 20060223 |
| CHECKED | HO. MIWA | 20060223 |
| DESIGNED | TR. WATANABE | 20060222 |
| DRAWN | TR. WATANABE | 20060222 |

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

DRAWING NO. ELC4-122761-02

| | | | | |
|---|---|---|---|---|
| HRS | SPECIFICATION SHEET | PART NO. | TM21R-5C-88(50) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL222-2893-2-50 | A 1/1 |

FORM HD0011-2-1