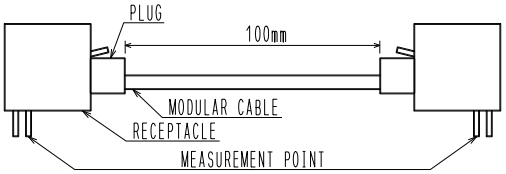
| APPLICABLE STANDARD | | EIA / TIA TSB 40 CAT5 | | |
|---|---|---|---|---|
| RATING | OPERATING TEMPERATURE RANGE | 1 -55 °C TO +85 °C⚠1 | STORAGE TEMPERATURE RANGE | 2 -25 °C TO +60 °C |
| | VOLTAGE | 125 V AC | OPERATING HUMIDITY RANGE | 95 % MAX |
| | CURRENT | 0.5 A | APPLICABLE CABLE | — |

# 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).<br>  <br><br>(AN EXAMPLE OF CONNECTORCONFIGURATION IS SHOW.) | 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 |
| NEAR END CROSSTALK (NEXT)LOSS | MEASURED MINIMUM NEXT LOSS FOR EACH PAIR COMBINATION AT 100 MHz. | 40 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 SINGLE AMPLITUDE 0.75 mm,<br>5 min/CYCLE AT 10 CYCLES. | 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 $m/s^2$ DURATION OF PULSE 11 ms<br>AT 3 TIMES FOR 6 DIRECTIONS. | | X | — |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| DAMP HEAT, CYCLIC | 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<br>-55 ± 3 → 5 TO 35 → 85 ± 2 → 5 TO 35 °C<br>TIME<br>30 TO 35 → 5 MAX → 30 TO 35 → 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 PARTS. | 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 ± 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 3 S MAX. | MIN. 95 % OF SOLDER IMMERSED AREA SHALL BE COVERED NEW SOLDER COATING. | X | — |

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

REMARK
1 THE OPERATION TEMPERATURE INCLUDES THE RYSE BY CURRENT CARRYING.
2 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 IEC 60512. ⚠1

| | | |
|---|---|---|
| APPROVED | RI. TAKAYASU | 20110531 |
| CHECKED | YH. ENAMI | 20110531 |
| DESIGNED | MT. ITANO | 20110531 |
| DRAWN | MT. ITANO | 20110531 |

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

| | | | |
|---|---|---|---|
| DRAWING NO. | ELC-121543-50-01 | | |
| HRS | SPECIFICATION SHEET | PART NO. | TM11R-5N2-88(50) |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL222-3952-5-50 ⚠ 1/1 |

FORM HD0011-2-1