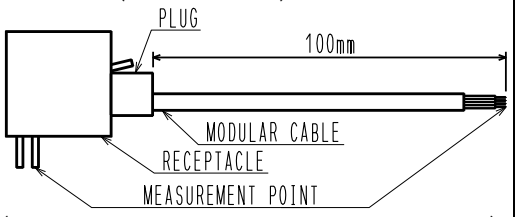
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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| 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).<br><br><br>(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.<br>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.<br>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.<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 → 15 TO 35 → 85±2 → 15 TO 35 °C<br>TIME 30 → 2 TO 3 → 30 → 2 TO 3 min<br>UNDER 5 CYCLES. | 1) CONTACT RESISTANCE : 70 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 : 70 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 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