

| APPLICABLE STANDARD   |  |                     |  |                      |          |
|---|--|---------------------|--|----------------------|----------|
| RATING  | Operating temperature range  | -10 °C TO +60 °C    | Storage temperature Range  | -10 °C TO +60 °C     |          |
|   | Voltage  | AC 100 V , DC 140 V | _____  | _____                |          |
|   | Current  | _____               | Applicable cable   | φ5.8±0.2             |          |
| 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  | Contact shall be measured AT DC 1 A  |                     | 15 mΩ MAX.   | X                    | -        |
| Insulation resistance   | 250 V DC.  |                     | 1000 mΩ MIN.   | X                    | X        |
| Voltage proof   | 300 V AC. for 1 min.   |                     | No flashover or breakdown.   | X                    | X        |
| MECHANICAL CHARACTERISTICS  |  |                     |  |                      |          |
| Contact insertion and withdrawal forces   | _____ By steel gauge.  |                     | Insertion and withdrawal forces : - N MIN.   | -                    | -        |
| Connector insertion and withdrawal forces   | Measured by applicable connector.  |                     | Insertion and withdrawal forces<br>Locking device with lock : 50 N MAX.  | X                    | -        |
| Mechanical operation  | 1000 times insertions and extractions.   |                     | Contact resistance: 20 mΩ MAX.   | X                    | -        |
| Vibration   | Frequency: 10 TO 55 Hz, Single amplitude 0.75 mm,<br>_____ m/s <sup>2</sup> AT 2 h, for 3 directions.            |                     | ①No electrical discontinuity of 10 μs.<br>②No damage, crack and looseness of parts.  | X                    | -        |
| Shock   | 490 m/s <sup>2</sup> duration of pulse 11 ms AT 3 times<br>for 3 directions.                                     |                     | ①No electrical discontinuity of 10 μs.<br>②No damage, crack and looseness of parts.  | X                    | -        |
| Contact retention force   | Applying a pull force the wire after the applicable crimped contact is assembled the body.                       |                     | 20 N MIN.  | X                    | -        |
| ENVIRONMENTAL CHARACTERISTICS   |  |                     |  |                      |          |
| Damp heat (steady state)  | Exposed at 40 °C, 90 TO 95 %, 96 h.  |                     | ①Insulation resistance: 10 MΩ MIN.<br>(At high humidity).<br>②Insulation resistance: 100 MΩ MIN.<br>(At dry).<br>③No damage, crack and looseness of parts. | X                    | -        |
| Rapid change of temperature   | Temperature -55 → R/T <sup>(1)</sup> → +85 → R/T °C<br>time 30 → 10 TO 15 → 30 → 10 TO 15 min<br>under 5 cycles. |                     | ①Insulation resistance: 100 mΩ MIN.<br>②No damage, crack and looseness of parts.   | X                    | -        |
| Corrosion salt mist   | Exposed in 5 % salt water spray for 48 h.  |                     | No heavy corrosion ruin the function.  | X                    | -        |
| Dry heat  | Exposed AT + 85 °C , 96 h.   |                     | No damage, crack and looseness of parts.   | X                    | -        |
| Cold  | Exposed AT - 55 °C , 96 h.   |                     | No damage, crack and looseness of parts.   | X                    | -        |
|   |  |                     |  |                      |          |
| COUNT   | DESCRIPTION OF REVISIONS   | DESIGNED            | CHECKED  | DATE                 |          |
| ①   |  |                     |  |                      |          |
| REMARK  |  |                     | APPROVED   | EJ. KUNII            | 16.03.23 |
| (1) R/T : Room temperature<br>The std. Value above indicates at the state applicable contact assembled. |  |                     | CHECKED  | EJ. KUNII            | 16.03.23 |
|   |  |                     | DESIGNED   | MM. ISHII            | 16.03.23 |
| Unless otherwise specified, refer to IEC 60512 (JIS C 5402).  |  |                     | DRAWN  | MM. ISHII            | 16.03.23 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |  | DRAWING NO.         | ELC-026920-71-00   |                      |          |
| <b>HRS</b>  | SPECIFICATION SHEET  |                     | PART NO.   | RP13A-12JD-15PC (71) |          |
|   | HIROSE ELECTRIC CO., LTD.  |                     | CODE NO.   | CL113-1005-4-71      | ① 1/1    |