

| APPLICABLE STANDARD |                             |  |                           |   |
|---------------------|-----------------------------|--|---------------------------|---|
| RATING<br><br>△     | OPERATING TEMPERATURE RANGE | -35°C TO +85°C(NOTE 1)   | STORAGE TEMPERATURE RANGE | -10°C TO +60°C(NOTE 3)  |
|                     | OPERATING HUMIDITY RANGE    | 20% TO 80%(NOTE 2)   | STORAGE HUMIDITY RANGE    | 40% TO 70%(NOTE 2)(NOTE 3)  |
|                     | VOLTAGE                     | 100V AC / DC   | APPLICABLE CONNECTOR      | DF81※-50S-0.4H(##)  |
|                     | CURRENT                     | AWG#34,36 : 0.3(MAX0.8A)<br>AWG#40 : 0.25A<br>AWG#42 : 0.2A<br>AWG#44 : 0.15A<br>AWG#46 : 0.1A | APPLICABLE CABLE          | THIN COAXIAL CABLE : AWG#36~AWG#46 / DISCRETE CABLE : AWG#34~40(Jacket : φ0.4MAX) |

### SPECIFICATIONS

| ITEM                                 | TEST METHOD  | REQUIREMENTS   | QT | AT |
|--------------------------------------|--|--|----|----|
| <b>CONSTRUCTION</b>                  |  |  |    |    |
| GENERAL EXAMINATION                  | VISUALLY AND BY MEASURING INSTRUMENT.  | ACCORDING TO DRAWING.  | X  | X  |
| MARKING                              | CONFIRMED VISUALLY.  |  | X  | X  |
| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |    |    |
| SULFUR DIOXIDE GAS                   | EXPOSED IN 25±5PPM , 25±2°C , 75%RH , 96h.   | NO DEFECT SUCH AS CORROSION WHICH IMPAIRS THE FUNCTION OF CONNECTOR. | X  | —  |
| RESISTANCE TO SOLDERING HEAT         | ①BONDING TEMPERATURE:<br>270°C MAX :5 sec MAX<br>200°C MIN :30 sec MAX<br>②MANUAL SOLDERING TEMPERATURE:<br>350°C, 3sec MAX. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.      | X  | —  |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE, 245°C FOR INSERTION DURATION, 5 sec. (Sn-3.0Ag-0.5Cu)  | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSSED. | X  | —  |

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED     | CHECKED      | DATE       |
|-------|--------------------------|--------------|--------------|------------|
| 2     | DIS-D-003000             | AH. MIYAZAKI | MH. TSUCHIDA | 13. 08. 29 |

|  |          |              |            |
|--|----------|--------------|------------|
| REMARKS<br>NOTE1: INCLUDE THE TEMPERATURE RISING BY CURRENT<br>NOTE2: NON CONDENSING<br>NOTE3: THE TERM "STORAGE" REFERS TO PRODUCTS STORED FOR A LONG PERIOD PRIOR TO MOUNTING AND USE. THE OPERATING TEMPERATURE AND HUMIDITY RANGE COVERS THE NON-CONDUCTING CONDITION OF CONNECTORS AFTER BOARD MOUNTING AND THE TEMPORARY STORAGE CONDITIONS OF TRANSPORTATION, etc<br>NOTE4:IT COULD BE VARIED DEPENDING ON THE CONDITIONS.<br>"MAX" IS RATING CURRENT AS ONLY TWO OF THEM TURN ON ELECTRICITY.<br>NOTES: TEMPERATURE RISE OF CONNECTOR BODY ONLY, AND THAT OF CABLE IS NOT INCLUDED.<br>Unless otherwise specified, refer to JIS C 5402,IEC60512. | APPROVED | TS. SAKATA   | 12. 09. 27 |
|  | CHECKED  | HS. OZAWA    | 12. 09. 27 |
|  | DESIGNED | AH. MIYAZAKI | 12. 09. 27 |
|  | DRAWN    | AH. MIYAZAKI | 12. 09. 27 |

|  |             |                |
|--|-------------|----------------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | DRAWING NO. | ELC4-345360-01 |
|--|-------------|----------------|

|            |                           |          |                 |
|------------|---------------------------|----------|-----------------|
| <b>HRS</b> | SPECIFICATION SHEET       | PART NO. | DF81-50P-SHL    |
|            | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL662-8112-3-00 |