







| Applicable standard  |  |                          |      |  |  |   |
|--|--|--------------------------|------|--|--|---|
| Rating   | 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 3)   |
|  | Voltage  | AC/DC 100V               |      |  | Applicable connector  | DF50A-*P-1V(##)<br>DF50A-*P-1H(##)  |
|  | Current                         | Contact                  | 2    | 3to16  | Applicable Contact    | DF50-26SCFA(##)<br>DF50-2830SCFA(##)<br>DF50K-2830SCFA(##)<br>DF50-3032SCFA(##)       |
|  | AWG26  | 2.0A                     | 1.0A |  |  |   |
|  | AWG28  | 2.0A                     | 1.0A |  |  |   |
|  | AWG30  | 0.9A                     |      |  |  |   |
|  |  | AWG32                    | 0.7A |  |  |   |
| 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>Electric characteristics</b>  |  |                          |      |  |  |   |
| Insulation resistance  | 100V DC.   |                          |      | 500MΩ MIN.   | X  | -   |
| Voltage proof  | 300V AC for 1 min.   |                          |      | No flashover or breakdown.   | X  | -   |
| <b>Mechanical characteristics</b>  |  |                          |      |  |  |   |
| Mechanical operation   | 30times insertions and extractions.  |                          |      | No damage, crack or looseness of parts.  | X  | -   |
| Vibration  | Frequency 10 to 55 Hz, single amplitude<br>0.75 mm, at 10 cycles for each, for 3 directions.                     |                          |      |  | X  | -   |
| Shock  | 490 m/s <sup>2</sup> duration of pulse 11 ms<br>At 3 times for 3 directions.                                     |                          |      |  | X  | -   |
| <b>Environmental characteristics</b>   |  |                          |      |  |  |   |
| Damp heat (Steady state)   | Exposed at 40 ± 2 °c, 90 to 95 %, 96 h.  |                          |      | ① Insulation resistance: 100MΩ MIN.<br>② No damage, crack or looseness of parts. | X  | -   |
| Rapid change of temperature  | Temperature -55→+85°C<br>Time 30→ 30min.<br>Under 5 cycles.<br>(The transferring time of the tank is 2 to 3 min) |                          |      | ① Insulation resistance: 500MΩ MIN.<br>② No damage, crack or looseness of parts. | X  | -   |
| Remarks  |  |                          |      |  |  |   |
| Note 1: Include the temperature rising by current.   |  |                          |      |  |  |   |
| Note 2: No condensing.   |  |                          |      |  |  |   |
| Note 3: Apply to the condition of long term storage for unused products before harness assembly.<br>After harness assembly, operating temperature and humidity range is applied for interim storage during transportation. |  |                          |      |  |  |   |
|   | Count  | Description of revisions |      | Designed   | Checked  | Date  |
|  | 3  | DIS-H-00005434           |      | HT. SATO   | SZ. ONO  | 20191028  |
| Unless otherwise specified, refer to IEC 60512.  |  |                          |      | Approved   | KI. AKIYAMA  | 20100706  |
|  |  |                          |      | Checked  | OM. MIYAMOTO   | 20100706  |
|  |  |                          |      | Designed   | TT. OHSAKO   | 2010070520100706  |
|  |  |                          |      | Drawn  | TT. OHSAKO   | 20100705  |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test   |  |                          |      | Drawing no.  |  | ELC-332936-00-00  |
|   | Specification sheet  |                          |      | Part no.   | DF50A-*S-1C  |   |
|  | Hirose electric co., ltd.  |                          |      | Code no.   | CL665-   |  |