

|                                                                                                                                        |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Applicable standard                                                                                                                    |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
| Rating<br>                                            | Operating temperature range | -35 °C to +85°C (Note1)                                                                                              | Storage temperature range               | -10 °C to +60°C (Note3)                                                             |                                                                                           |
|                                                                                                                                        | Operating humidity range    | 20% to 80% (Note2)                                                                                                   | Storage humidity range                  | 40% to 70% (Note3)                                                                  |                                                                                           |
|                                                                                                                                        | Voltage                     | 350 V AC/DC                                                                                                          | Applicable socket                       | DF61-2S-2.2C                                                                        |                                                                                           |
|                                                                                                                                        | Current                     | AWG#26 : 3.2A/pin<br>AWG#24 : 4.0A/pin<br>AWG#22 : 5.0A/pin                                                          | Applicable cable<br>Insulation diameter | UL10368 AWG#22 to AWG#26<br>$\phi$ 0.98 to 1.3 mm                                   |                                                                                           |
| 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                                                                                                                     |                             | 20 mV MAX, 1 mA(DC OR 1000 Hz).                                                                                      |                                         | 10 mΩMAX.                                                                           | X -                                                                                       |
| Mechanical characteristics                                                                                                             |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
| Contact insertion and extraction forces                                                                                                |                             | T=0.2±0.002 mm by steel gauge.                                                                                       |                                         | Insertion force 5 N MAX.<br>Extraction force 0.1 N MIN.                             | X -                                                                                       |
| Mechanical operation                                                                                                                   |                             | 30 times insertion and extraction.                                                                                   |                                         | ① Contact resistance: 20 mΩ MAX.<br>② No damage, crack or looseness of parts.       | X -                                                                                       |
| Vibration                                                                                                                              |                             | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 10 cycles for 3 direction.                                       |                                         | ① No electrical discontinuity of 1 μs.<br>② No damage, crack or looseness of parts. | X -                                                                                       |
| Shock                                                                                                                                  |                             | 490 m/s <sup>2</sup> duration of pulse 11 ms at 3 times for 3 directions.                                            |                                         |                                                                                     | X -                                                                                       |
| Crimp tensile Strength                                                                                                                 |                             | Crimping the core wire only.                                                                                         |                                         | AWG#22 : 40 N MIN.<br>AWG#24 : 28 N MIN.<br>AWG#26 : 18 N MIN.                      | X -                                                                                       |
| Environmental characteristics                                                                                                          |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
| Damp heat (Steady state)                                                                                                               |                             | Exposed at 40 ± 2°C , 90 to 95 %, 96 h.<br>(After leaving the room temperature for 1 – 2 h)                          |                                         | ① Contact resistance: 20 mΩ MAX.<br>② No damage, crack or looseness of parts.       | X -                                                                                       |
| Rapid change of temperature                                                                                                            |                             | Temperature -55°C→ +85°C<br>Time 30min→ 30min<br>Under 5 cycles.<br>(After leaving the room temperature for 1 – 2 h) |                                         |                                                                                     | X -                                                                                       |
|                                                                                                                                        |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
| Note 1: Include the temperature rising by current.<br>Note 2: No condensing.<br>Note 3: Apply to unused product on packaged condition. |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
|                                                                                                                                        | Count                       | Description of revisions                                                                                             | Designed                                | Checked                                                                             | Date                                                                                      |
|                                                     | 1                           | DIS-H-00006882                                                                                                       | SN. MIWA                                | SZ. ONO                                                                             | 20201201                                                                                  |
| Remarks                                                                                                                                |                             |                                                                                                                      | Approved                                | KI. AKIYAMA                                                                         | 20121128                                                                                  |
|                                                                                                                                        |                             |                                                                                                                      | Checked                                 | HK. UMEHARA                                                                         | 20121128                                                                                  |
|                                                                                                                                        |                             |                                                                                                                      | Designed                                | TT. OHSAKO                                                                          | 20121127                                                                                  |
|                                                                                                                                        |                             |                                                                                                                      | Drawn                                   | TT. OHSAKO                                                                          | 20121127                                                                                  |
| Unless otherwise specified, refer to IEC60512                                                                                          |                             |                                                                                                                      |                                         |                                                                                     |                                                                                           |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test                                                                         |                             |                                                                                                                      | Drawing no.                             |                                                                                     | ELC-342494-41-01                                                                          |
|                                                     | Specification sheet         |                                                                                                                      | Part no.                                | DF61-2226SCF (41)                                                                   |                                                                                           |
|                                                                                                                                        | Hirose electric co., ltd.   |                                                                                                                      | Code no.                                | CL0666-5004-0-41                                                                    |  1/1 |