| Applicable standard | | | | |
|---|---|---|---|---|
| Rating | Operating Temperature range △1 | -55 °C to +105°C (Note1) | Storage Temperature range | -10 °C to +60°C (Note3) |
| | Operating Humidity range △1 | 40% to 80% (Note2) | Storage Humidity range △1 | 40% to 70% (Note3) |
| | Voltage | 250V AC/DC | Applicable connector | DF3-*S-2C(##) |
| | Current △1 | AWG 22 : 4A | Applicable cable | UL 1061 AWG 22 |

# 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 | 100mA (DC or 1000 Hz). | 30 mΩ MAX. | X | — |
| **Mechanical characteristics** | | | | |
| Contact insertion and Extraction force | □0.5±0.002 by steel gauge. | Insertion force 4.4N MAX<br>Extraction force 0.3N MIN | X | — |
| Mechanical operation | 30 times insertion and extraction. | ① Contact resistance : 30 mΩ MAX.<br>② No damage, crack or looseness of parts. | X | — |
| Crimp tensile strength | Measure MAX, value under the following method:<br>Apply wire tensile strength to caulking area axially<br>Until wire become loosen or breakdown. | AWG 22 53N MIN (17 cores / 0.16 mm) | X | — |
| Vibration | Frequency 10 to 55 Hz, single amplitude<br>0.75 mm, at 2h, for 3 directions. | ① No electrical discontinuity of 1 μs.<br>② No damage, crack or looseness of parts. | X | — |
| Shock | 490 m/s$^2$ duration of pulse 11 ms at 3 times for<br>3 directions. | | X | — |
| **Environmental characteristics** | | | | |
| Damp heat (Steady state) | Exposed at 40 ± 2℃ , 90 to 95 %, 96 h.<br>(After leaving the room temperature for 1 to 2h.) | ① Contact resistance: 30 mΩ MAX.<br>② No damage, crack or looseness of parts. | X | — |
| Rapid change of temperature △1 | Temperature -55℃→ +85℃<br>Time 30min→ 30min<br>Under 5 cycles.<br>(The transferring time of the tank is 2 to 3 min)<br>(After leaving the room temperature for 1 to 2h.) | | X | — |
| | | | | |

Note 1: Include the temperature rising by current.
Note 2: No condensing. △1
Note 3: Apply to the condition of long term storage for unused products before harness assembly.
After harness assembly, operation temperature and humidity range is applied for interim storage during transportation. △1

| | Count | Description of revisions | Designed | Checked | Date |
|---|---|---|---|---|---|
| △1 | 7 | DIS-H-00005232 | TO. KUROMATSU | SZ. ONO | 20190902 |

Remarks

Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| Approved | KJ. KATAYOSE | 20050105 |
| Checked | TY. OMA | 20050105 |
| Designed | IO. DENPOUYA | 20050105 |
| Drawn | IO. DENPOUYA | 20050105 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

Drawing No. ELC-071846-00-00

HRS

Specification sheet

HIROSE ELECTRIC CO., LTD.

Part No. DF3-22SCF

Code No. CL543-0235-3-00 △1



FORM HD0011-2-1