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In case of consideration for using Automotive equipment / device which demand high reliability, kindly contact our sales window correspondents.

| Applicable standard | | | | |
|---|---|---|---|---|
| Rating | Operating temperature range | -55°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 | 1000V AC/DC | Applicable connector | DF22-*(D)S-7.92C(28)<br>DF22#-*(D)S-7.92C |
| | Current(*1) | AWG14 : 20A<br>AWG16 : 15A | | |
| | | | Applicable cable | UL1430/UL1007 AWG14,16 |

| | Rated voltage | Rated current | Overvoltage category | IP-Protection method |
|---|---|---|---|---|
| UL | AC 600V | AWG14:26A/AWG16:21A<br>(At ambient temp.25℃) | — | — |
| C-UL | AC 600V | See above(*1)(Temp. rise up 30℃MAX) | — | — |
| TÜV | AC 600V | See above(*1) | Ⅱ | IPOO |

# 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 | 20mV MAX, 1mA (DC OR 1000 Hz). | 5mΩ MAX. | X | — |
| **Mechanical characteristics** | | | | |
| Mechanical operation | 50 times insertions and extractions. | ① Contact resistance: 10 mΩ MAX.<br>② No damage, crack or looseness of parts. | X | — |
| Vibration | Frequency 10 to 55 Hz, single amplitude 0.75 mm, at 2 h, 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 3 directions. | | X | — |
| **Environmental characteristics** | | | | |
| Rapid change of temperature | Temperature -55→ 5 to 35→+85→ 5 to 35 °C<br>Time 30→ 5 max → 30→ 5 max min<br>Under 5 cycles. | ① Contact resistance: 10 mΩ MAX.<br>② No damage, crack or looseness of parts. | X | — |
| Damp heat (Steady state) | Exposed at 40 ± 2 °c, 90 to 95 %, 96 h. | ① Contact resistance: 10 mΩ MAX.<br>② No damage, crack or looseness of parts. | X | — |

Remarks
Note 1:Include the temperature rising by current.
Note2:No condensing
Note3: 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.

| | Count | Description of revisions | Designed | Checked | Date |
|---|---|---|---|---|---|
| △0 | | | | | |

Unless otherwise specified, refer to IEC 60512.

| | | |
|---|---|---|
| Approved | HS. OKAWA | 20190909 |
| Checked | SZ. ONO | 20190909 |
| Designed | TS. KUMAZAWA | 20190909 |
| Drawn | TS. KUMAZAWA | 20190909 |

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

| | | | | |
|---|---|---|---|---|
| | | Drawing no. | ELC-388481-00-00 | |
| HRS | Specification sheet | Part no. | DF22-1416PCA | |
| | Hirose electric co., ltd. | Code no. | CL680-1192-0-00 | △0 1/1 |

FORM HD0011-2-1