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|--|-----------------------------|--|---|---------------------------------------|---|
| Applicable standard | | | | | |
| Rating | 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 | 50 V AC/DC | Applicable Contact | DF57-*S-1.2C(##) DF57H-*S-1.2C(##) | |
| | Current | AWG#28 : 2.5 A AWG#30 : 1.5 A | Applicable cable | AWG#28 to AWG#30 | |
| Insulation Diameter | | | φ 0.5~0.63 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 mΩ MAX. | X | — |
| Mechanical characteristics | | | | | |
| Contact insertion and extraction forces | | t=0.2±0.002 mm by steel gauge. | Insertion force 5 N MAX. Extraction force 0.1 N MIN. | X | — |
| Mechanical operation | | 30 times insertion and extraction. | ① Contact resistance: 20 mΩ MAX. 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. 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 | — |
| Crimp tensile Strength | | Fix the contact, pull the cable and measure the strength. | ① AWG#28 : 16 N MIN.  ② AWG#30 : 8 N MIN. | X | — |
| Environmental characteristics | | | | | |
| Damp heat(Steady state) | | Exposed at 40 ± 2°C , 90 to 95 %, 96 h. (After leaving the room temperature for 1~2h.) | ① Contact resistance: 20 mΩ MAX. ② No damage, crack or looseness of parts. | X | — |
| Rapid change of temperature | | Temperature -55°C→ +85°C Time 30min→ 30min Under 5 cycles. (After leaving the room temperature for 1~2h.) | | 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 mount on pcb, After mounted on pcb, operating temperature and humidity range is applied for interim storage during transportation. | | | | | |
|  | Count | Description of revisions | Designed | Checked | Date |
| | 1 | DIS-H-00004635 | HT. SATO | SZ. ONO | 20190214 |
| Remarks Unless otherwise specified, refer to IEC 60512. | | | Approved | TS. SAKATA | 20091130 |
| | | | Checked | MN. KENJO | 20091128 |
| | | | Designed | TS. KUMAZAWA | 20091127 |
| | | | Drawn | TS. KUMAZAWA | 20091127 |
| Note QT:Qualification test AT:Assurance test X:Applicable test | | | Drawing no. | | ELC-322918-00-00 |
|  | Specification sheet | | Part no. | DF57-2830SCF | |
| | Hirose electric co., ltd. | | Code no. | CL666-0001-4-00 |  1/1 |