





| Applicable standard   |   |   |                           |  |   |     |
|---|---|---|---------------------------|--|---|-----|
| Rating  | Operating temperature range   | -30°C to + 85°C(Note 1)   | Storage temperature range | -10°C to + 60°C(Note 3)                  |   |     |
|   | Operating humidity range  | 40% to + 80%(Note 2)  | Storage humidity range    | 40% to + 70%(Note 3)                     |   |     |
|   | Applicable contact  | DF3-22SC *<br>DF3-2428SC *  | Applicable cable          | UL1007 AWG24 to 28<br>UL1061 AWG22 to 28 |   |     |
|   | Voltage   | 250V AC   | UL·CSA Rating             | Voltage                                  | 30V AC  |     |
|   | Current   | AWG 22 to 24 : 3A<br>AWG 26 : 2A<br>AWG 28 : 1A                                   |                           | Current                                  | AWG 24 : 3A<br>AWG 26 : 2A<br>AWG 28 : 1A  |     |
| 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   | 500V DC.  | 1000MΩ MIN.   | X                         | —  |   |     |
| Voltage proof   | 650V AC for 1 min.  | No flashover or breakdown.  | X                         | —  |   |     |
| <b>Mechanical characteristics</b>   |   |   |                           |  |   |     |
| Mechanical operation  | 30 times insertions and extractions.  | ① 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 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.                   | ① No damage, crack or looseness of parts.   | X                         | —  |   |     |
| <b>Environmental characteristics</b>  |   |   |                           |  |   |     |
| Rapid change of temperature   | Temperature -55→ 5 to 35→ 85→ 5 to 35 °c<br>Time 30→ 5MAX → 30→ 5MAX min<br>Under 5 cycles. | ① Insulation resistance: 1000MΩ MIN.<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 Insulation resistance: 500MΩ MIN.<br>② No damage, crack or looseness of parts.  | X                         | —  |   |     |
| <b>Remarks</b>  |   |   |                           |  |   |     |
| Note 1:Including the temperature rise by current  |   |   |                           |  |   |     |
| Note 2:No condensing.   |   |   |                           |  |   |     |
| Note 3:Apply to the condition of long term storage for unused products before pcb on board, after pcb board, operating temperature and humidity range is applied for interim storage during transportation. |   |   |                           |  |   |     |
|   | Count   | Description of revisions  | Designed                  | Checked                                  | Date  |     |
|    | 1   | DIS-H-00001155  | MI. SAKIMURA              | TS. FUKUSHIMA                            | 15. 12. 04  |     |
| Unless otherwise specified , refer to IEC 60512.  |   |   | Approved                  | KJ. KATAYOSE                             | 05. 01. 05  |     |
|   |   |   | Checked                   | KI. AKIYAMA                              | 05. 01. 05  |     |
|   |   |   | Designed                  | TH. ARAI                                 | 05. 01. 05  |     |
|   |   |   | Drawn                     | TH. ARAI                                 | 05. 01. 05  |     |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test  |   |   | Drawing no.               | ELC-162387-00-01                         |   |     |
|    | Specification sheet   |   | Part no.                  | DF3-*S-2C                                |   |     |
|   | Hirose electric co., ltd.   |   | Code no.                  | CL543-                                   |    | 1/1 |