








| | | | | | |
|---|--|---|--|--|---|
| Applicable standard | | | | | |
| Rating | Operating Temperature range | -40 °C to +105°C (Note1) | Storage Temperature range | -10 °C to +60°C (Note2) | |
| | Operating Humidity range | 20% to 80% | Storage Humidity range | 40% to 70% (Note2) | |
| | Applicable Connector  | DF63WA-4EP-3.96C | Voltage | 630V AC/DC | |
| | Applicable contact | DF63W-1618SC* DF63W-2022SC* | Current  | AWG 16 : 12 A/pin | |
| | Insulation diameter | $\phi 1.7 \sim \phi 2.4$ mm | | AWG 18 : 9 A/pin AWG 20 : 7 A/pin AWG 22 : 6 A/pin | |
| 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 1000Hz). | 10 mΩ MAX. | X | — |
| Insulation resistance | | 500 V DC. | 1000 MΩ MIN. | X | — |
| Voltage proof | | 1500 V AC for 1 min. | No flashover or breakdown. | X | — |
| Mechanical characteristics | | | | | |
| 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 each for 3 both axial directions. | 1)No electrical discontinuity of 1 μs. 2)No damage, crack or looseness of parts. | 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)Insulation resistance: 500 MΩ Min. 3)No damage, crack or looseness of parts. | X | — |
| Rapid change of temperature | | Temperature -55°C→ +105°C Time 30min→ 30min Under 5 cycles. (The transferring time of the tank is 2~3 min) (After leaving the room temperature for 1~2h.) | 1)Contact resistance: 20 mΩ MAX. 2)Insulation resistance: 1000 MΩ Min. 3)No damage, crack or looseness of parts. | X | — |
| Sealing | | Exposed at a depth of 1m for 0.5h. | No water penetration inside connector. | X | — |
| Remarks | | | | | |
| Note 1: Include the temperature rising by current. Note 2: Apply to the packaged and unused product.  | | | | | |
|  | Count | Description of revisions | Designed | Checked | Date |
|  | 3 | DIS-H-00018486 | HT. SATO | SZ. ONO | 20230613 |
| Unless otherwise specified, refer to IEC 60512. | | | Approved | HK. UMEHARA | 20150310 |
| | | | Checked | HK. UMEHARA | 20150310 |
| | | | Designed | TO. HORII | 20150310 |
| | | | Drawn | TO. HORII | 20150310 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | Drawing No. | ELC-359261-00-00 | |
|  | Specification sheet | | Part No. | DF63WA-4S-3. 96C | |
| | HIROSE ELECTRIC CO., LTD. | | Code No. | CL0680-0619-3-00 |  1/1 |