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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 | -40 °C to 140 °C ⁽¹⁾ | Storage Temperature Range | -10 °C to 60 °C ⁽²⁾ | | |
| | Voltage | 125 V AC ⁽³⁾ | Storage Humidity Range | Relative humidity 60% max (Not dewed) | | |
| | Current | 0.5 A | Operating Humidity Range | Relative humidity 85% max (Not dewed) | | |
| SPECIFICATIONS | | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | | QT | AT |
| CONSTRUCTION | | | | | | |
| General Examination | Examined visually and with a measuring instrument. | | According to the drawing. | | x | x |
| Marking | Confirmed visually. | | | | x | x |
| ELECTRICAL CHARACTERISTICS | | | | | | |
| Contact Resistance | Measured at 100 mA MAX.(DC or 1000Hz) | | 65mΩ MAX. | | x | - |
| Insulation Resistance | Measured at 250 V DC. | | 1000 MΩ MIN. | | x | - |
| Voltage Proof | 375 V AC applied for 1 min. | | No flashover or breakdown. | | x | - |
| MECHANICAL CHARACTERISTICS | | | | | | |
| Mating and Unmating Forces | Measured with an applicable connector. | | Mating Force: 50 N MAX. Unmating Force: 5.5 N MIN. | | x | - |
| Mechanical Operation | Mated and unmated 10 times. | | ①Contact Resistance : 75mΩ MAX. ②No damage, cracks or looseness of parts. | | x | - |
| Vibration | Frequency 50~100 → 100~150 → 150~300Hz Acceleration 98 → 98~294 → 294 m/s ² 1 cycle 3 min 3 h for 3 axial directions ⁽⁴⁾ | | ①No electrical discontinuity of more than 1 μs. ②No damage, cracks or looseness of parts. | | x | - |
| Shock | Acceleration 980 m/s ² , duration of pulse 6 ms at 3 times for 3 axial directions. | | | | x | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | | | |
| Damp Heat (Steady state) | Exposed at 60±2 °C, 90 ~ 95 %, 1000 h. | | ①Contact Resistance : 75mΩ MAX. ②Insulation Resistance : 1000 MΩ MIN.  | | x | - |
| Rapid Change of Temperature | Temperature -40 → +140 °C Time 30 → 30 min. under 1000 cycles. (Relocation time to chamber : within 2~3 MIN) | | ③No damage, cracks or looseness of parts. | | x | - |
| Cold | Exposed at -40°C, 1000 h | | ①Contact Resistance : 75mΩ MAX. | | x | - |
| Dry Heat | Exposed at 140°C, 1000 h | | ②No damage, cracks or looseness of parts. | | x | - |
| Sulfur Dioxide | Exposed at 40±2°C, 80±5%RH, 25±5ppm  for 96 h. | | Contact Resistance : 75mΩ MAX. | | x | - |
| Resistance to Soldering Heat | 1)Reflow soldering : Peak TMP : 260°C MAX Reflow TMP: 220°C MIN for 60sec  | | No deformation of case of excessive looseness of the terminal. | | x | - |
| Solderability | Soldered at solder temperature 240±3°C for immersion duration, 3 sec. | | A new uniform coating of solder shall cover a minimum of 95 % of the surface being immersed. | | x | - |
| | | | | | | |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE | |
|  | 1 | DIS-F-00016361 | TK. ABE | HH. SHINDO | 20221215 | |
| Notes | | | APPROVED | HH. SHINDO | 20200422 | |
| (1) Include temperature rise caused by current-carrying. | | | CHECKED | KN. SHIBUYA | 20200422 | |
| (2) "STORAGE" means a long-term storage state for the unused product before assembly to PCB. | | | DESIGNED | TK. ABE | 20200422 | |
| (3) The creepage distance conforms to IEC 60664-1. Voltage effective value: 32V AC, Pollution Degree: 2 | | | DRAWN | TK. ABE | 20200422 | |
| (4) Amplitude between connector mounting part and PCB is 0.05mm MAX. | | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-386635-00-00 | |
|  | SPECIFICATION SHEET | | PART NO. | FX26-50S-1SV18 | | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL0576-1405-0-00 |  | 1/1 |