



| | | | | | |
|--|-----------------------------|--|--|--|------------|
| APPLICABLE STANDARD | | | | | |
| RATING | OPERATING TEMPERATURE RANGE | -55 °C TO 105 °C | STORAGE TEMPERATURE RANGE | -10 °C TO 50 °C (PACKED CONDITION) | |
| | VOLTAGE | 50 V AC / DC | OPERATING OR STORAGE HUMIDITY RANGE | RELATIVE HUMIDITY 90 % MAX (NOT DEWED) | |
| | CURRENT | 0.5 A | APPLICABLE CABLE | t=0.3±0.03mm, GOLD PLATING | |
| SPECIFICATIONS | | | | | |
| ITEM | | TEST METHOD | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | × | × |
| MARKING | | CONFIRMED VISUALLY. | | × | × |
| ELECTRICAL CHARACTERISTICS | | | | | |
| VOLTAGE PROOF | | 250 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | × | × |
| INSULATION RESISTANCE | | 100 V DC. | 500 MΩ MIN. | × | × |
| CONTACT RESISTANCE | | AC/DC 20 mV MAX (AC:1 KHz) , 1 mA . | 100 mΩ MAX. INCLUDING FPC,FPC BULK RESISTANCE (L=8mm) | × | × |
| MECHANICAL CHARACTERISTICS | | | | | |
| VIBRATION | | FREQUENCY 10 TO 55 Hz, HALF AMPLITUDE 0.75 mm, FOR 10 CYCLES IN 3 AXIAL DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. | × | — |
| SHOCK | | 981 m/s ² , DURATION OF PULSE 6 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS. | ② CONTACT RESISTANCE: 100 mΩ MAX. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| MECHANICAL OPERATION | | 20 TIMES INSERTIONS AND EXTRACTIONS. | ① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| FPC RETENTION FORCE | | MEASURED BY APPLICABLE FPC. (THICKNESS OF FPC SHALL BE t=0.30mm AT INITIAL CONDITION.) | DIRECTION OF INSERTION : (TOP CONTACT) 0.2N × NUMBER OF CONTACTS MIN. (BOTTOM CONTACT) 0.3N × NUMBER OF CONTACTS MIN. (note 1) | × | — |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| CORROSION SALT MIST | | EXPOSED AT 35±2 °C , 5 % SALT WATER SPRAY FOR 96 h. | ① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | × | — |
| RAPID CHANGE OF TEMPERATURE | | TEMPERATURE -55→+15To+35→+85→+15To+35°C TIME 30→ 2 TO 3 → 30→ 2 TO 3 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 50 MΩ MIN. ③ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| DAMP HEAT (STEADY STATE) | | EXPOSED AT 40±2 °C, RELATIVE HUMIDITY 90 TO 95 %, 96 h. | | × | — |
| DAMP HEAT,CYCLIC | | EXPOSED AT -10 TO +65 °C, RELATIVE HUMIDITY 90 TO 96 %, 10 CYCLES,TOTAL 240 h. | ① CONTACT RESISTANCE: 100 mΩ MAX. ② INSULATION RESISTANCE: 1 MΩ MIN. (AT HIGH HUMIDITY) ③ INSULATION RESISTANCE: 50 MΩ MIN. (AT DRY) ④ NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | × | — |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | | | | | |
| REMARK | | | APPROVED | NF. MIYAZAKI | 17. 05. 10 |
| This product is RoHS compliant. Unless otherwise specified, refer to IEC 60512. | | | CHECKED | HS. SAKAMOTO | 17. 05. 10 |
| | | | DESIGNED | KN. KOBAYASHI | 17. 05. 10 |
| | | | DRAWN | NM. YONEYAMA | 17. 05. 10 |
| | | | Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | |
| HRS | SPECIFICATION SHEET | | PART NO. | FH34SRJ-32S-0. 5SH (50) | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL580-1257-1-50 | △ 1/2 |

| SPECIFICATIONS | | | | | |
|---|---|--|-------------------------|---|-----|
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | |
| DRY HEAT | EXPOSED AT 85±2 °C, 96 h. | ① CONTACT RESISTANCE: 100 mΩ MAX. | x | — | |
| COLD | EXPOSED AT -55±3°C, 96 h. | ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | — | |
| SULPHUR DIOXIDE [JIS C 60068-2-42] | EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% 25±5 ppm FOR 96 h. | ① CONTACT RESISTANCE: 100 mΩ MAX. ② NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | x | — | |
| HYDROGEN SULPHIDE [JIS C 60068-2-43] | EXPOSED AT 40±2 °C , RELATIVE HUMIDITY 80±5% , 10 TO 15 ppm FOR 96 h. | ③ NO EVIDENCE OF CORROSION WHICH AFFECTS TO OPERATION OF CONNECTOR. | x | — | |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 235±5°C FOR IMMERSION DURATION, 2±0.2 sec. | A NEW UNIFORM COATING OF SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | x | — | |
| RESISTANCE TO SOLDERING HEAT | 1) REFLOW SOLDERING : PEAK TMP. 250 °C MAX . REFLOW TMP. OVER 230 °C WITHIN 60 sec. 2) SOLDERING IRONS : TMP. 350 ± 10 °C FOR 5±1 sec . | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | x | — | |
| <div>(note1)</div> <p>FASTEN FPC ON PCB OR SOMETHING FIXED IF FORCE IN VERTICAL DIRECTION SHALL BE PREDICTED. DO NOT CLOSE THE ACTUATOR BEFORE INSERTING FPC EVEN AFTER THE CONNECTOR IS MOUNTED ONTO A PCB. CLOSING THE ACTUATOR WITHOUT FPC COULD MAKE THE CONTACT GAP SMALLER, WHICH INCREASES THE FPC INSERTION FORCE.</p> <p>THIS CONNECTOR HAS CONTACTS ON THE BOTH TOP AND BOTTOM.</p> <p>THERE'S A CASE WHICH FPC/FFC RETENTION FORCE DOESN'T FULFILL THE VALUE, BECAUSE FPC/FFC SPECIFICATION AFFECTS THE RESULT OF FPC/FFC RETENTION FORCE.</p> | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. | ELC-346126-50-00 | | |
|  | SPECIFICATION SHEET | PART NO. | FH34SRJ-32S-0. 5SH (50) | | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO | CL580-1257-1-50 |  | 2/2 |