





| APPLICABLE STANDARD | | | | | |
|---|---|---------------------------|---|---------------------------|-------------------------------|
| | OPERATING TEMPERATURE RANGE | -40°C TO +80°C(95%RH MAX) | STORAGE TEMPERATURE RANGE | -30°C TO +60°C(95%RH MAX) | |
| RATING | VOLTAGE | 30 V AC | CURRENT | SIGNAL | 0.5 A/pin |
| | | | | 2PINS POWER | 1.0 A/pin (ANY OF 2PIN) |
| | | | | | 2.0 A/pin (PIN No.1 and 8) |
| SPECIFICATIONS | | | | | |
| ITEM | TEST METHOD | | REQUIREMENTS | QT | AT |
| CONSTRUCTION | | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | ACCORDING TO DRAWING. | X | X |
| ELECTRIC CHARACTERISTICS | | | | | |
| CONTACT RESISTANCE | 100 mA MAX (DC OR 1000 Hz). | | 30 mΩ MAX. | X | — |
| INSULATION RESISTANCE | 100 V DC. | | 500 MΩ MIN. | X | — |
| VOLTAGE PROOF | 250 V AC FOR 1 min.CURRENT LEAKAGE 2mA MAX. | | NO FLASHOVER OR BREAKDOWN. | X | — |
| MECHANICAL CHARACTERISTICS | | | | | |
| INSERTION AND WITHDRAWAL FORCES | A MAXIMUM RATE OF 12.5 mm/min. MEASURED BY APPLICABLE CONNECTOR. | | INSERTION FORCE 25 N MAX. WITHDRAWAL FORCE 25 N MAX. | X | — |
| MECHANICAL OPERATION | 5000 TIMES INSERTIONS AND EXTRACTIONS. MATING SPEED - MANUALLY OPERATED : 200 CYCLES / h | | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 15 mΩ FROM INITIAL VALUE. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| VIBRATION | FREQUENCY 10 TO 500 Hz SINGLE AMPLITUDE 0.75 mm, AT 11 min 10 CYCLES(30 CYCLES IN TOTAL) FOR 3 AXIAL DIRECTIONS. | | 1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| FRETTING CORROSION | 490 m/s ² , 30 TIMES/MIN AT 1000 TIMES. | | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 60 mΩ FROM INITIAL VALUE. 2) NO ELECTRICAL DISCONTINUITY OF 1μs. 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES IN 3 BOTH AXIAL DIRECTIONS. | | 1) NO ELECTRICAL DISCONTINUITY OF 1μs. 2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — |
| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
| △ | 2 | DIS-E-00000344 | P.EKSOURIYA | NM.NISHIMATSU | 15.12.03 |
| REMARK | | | APPROVED | RI.TAKAYASU | 15.11.28 |
| | | | CHECKED | NM.NISHIMATSU | 15.11.28 |
| | | | DESIGNED | TS.SAKAIZAWA | 15.11.28 |
| Unless otherwise specified, refer to IEC 60512. | | | DRAWN | TS.SAKAIZAWA | 15.11.28 |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | ELC-128630-00-00 | |
| HRS | SPECIFICATION SHEET | | PART NO. | IX61-A-8P | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO. | CL251-0001-2-00 | △ 1/3 |

| SPECIFICATIONS | | | | | |
|---|---|---|-------------|-----------------|---|
| ITEM | TEST METHOD | REQUIREMENTS | QT | AT | |
| LOCK STRENGTH | APPLYING 98 N FORCE FOR THE MATING AXIS DIRECTION IN STATE IN FITTED WITH APPLICABLE CONNECTOR. | NO UNLOCKING, DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| WRENCHING STRENGTH | APPLYING 25TIMES OF 30 N 1s FOR 2 AXIS DIRECTION ON TIP OF PLUG CASE IN STATE IN FITTED WITH APPLICABLE CONNECTOR. | NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| ENVIRONMENTAL CHARACTERISTICS | | | | | |
| THERMAL SHOCK | TEMP -55 → +15 TO +35 → +85 → +15 TO +35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 10 CYCLES (MATING APPLICABLE CONNECTOR) | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 30 mΩ FROM INITIAL VALUE. 2)INSULATION RESISTANCE: 1 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| HUMIDITY | EXPOSED AT +40 ± 2 °C, HUMIDITY 93 ± 2 / -3 %, 96h (MATING APPLICABLE CONNECTOR) | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 30 mΩ FROM INITIAL VALUE. 2)INSULATION RESISTANCE: 1 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| DRY HEAT | EXPOSED AT +85 ± 2 °C, 1000 h. (MATING APPLICABLE CONNECTOR) | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 30 mΩ FROM INITIAL VALUE. 2)INSULATION RESISTANCE: 1 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| COLD | EXPOSED AT -40 ± 3 °C, 1000 h. (MATING APPLICABLE CONNECTOR) | 1) CONTACT RESISTANCE: NO INCREASE OF MORE THAN 30 mΩ FROM INITIAL VALUE. 2)INSULATION RESISTANCE: 1 MΩ MIN. (AT DRY) 3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | X | — | |
| CORROSION SALT MIST | EXPOSED AT 5 % SALT WATER, 35 ± 2 °C, 48h. (LEFT UNDER UNMATED CONDITION.) | NO HEAVY CORROSION OF CONTACTS.  | X | — | |
| CORROSION SO ₂ GAS | EXPOSED AT SO ₂ 25 ppm, +25 ± 2 °C, 75 ± 5%RH, 96 h. (LEFT UNDER UNMATED CONDITION.) | NO HEAVY CORROSION OF CONTACTS.  | X | — | |
| | | | | | |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | | DRAWING NO. | | ELC-128630-00-00 |
|  | SPECIFICATION SHEET | | PART NO. | IX61-A-8P | |
| | HIROSE ELECTRIC CO., LTD. | | CODE NO | CL251-0001-2-00 |  2/3 |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------------------------------|---|---|----|----|
| SOLDERBILITY | SOLDERING POINT IMMERSED IN SOLDER BATH OF $+235 \pm 5$ °C,5 sec. (USING TYPE R FLAX) | SOLDER SHALL COVER MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | — |
| RESISTANCE TO SOLDERING HEAT | A PROFILE IS SHOWN IN FIG-1, UNDER 2 CYCLES. | NO DEFORMATION OR SIGNIFICANT LOOSENESS OF CONTACTS. | X | — |

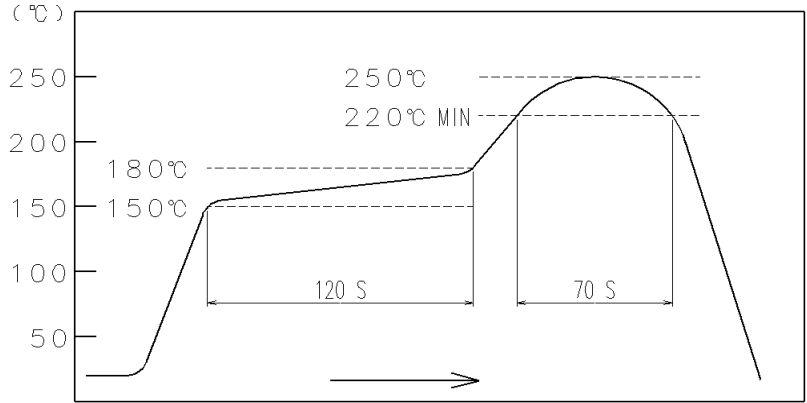


FIG – 1 RESISTANCE TO SOLDERING HEAT
(TEMPERATURE AT TOP SURFACE OF CONNECTOR)

RECOMMENDED PROFILE REFERS TO FIG – 2.
(TEMPERATURE AT SMT LEADS)

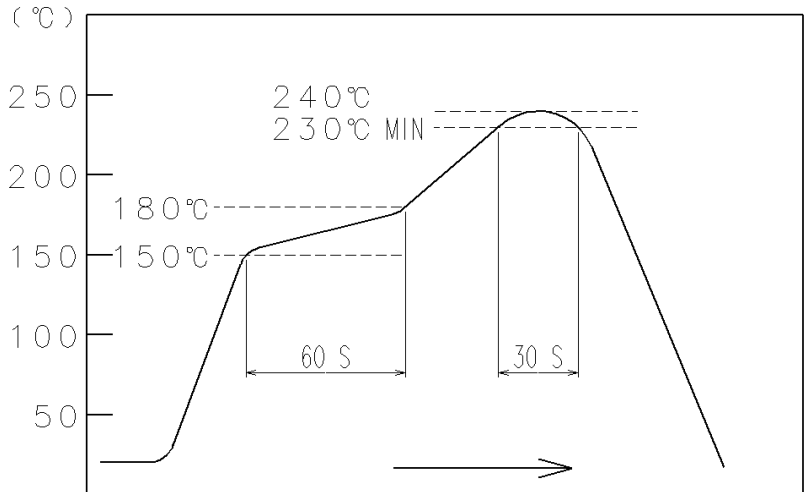


FIG – 2 RECOMMENDED REFLOW PROFILE TEMPERATURE

| | | | |
|--|---------------------------|------------------------------|-------|
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test | | DRAWING NO. ELC-128630-00-00 | |
| HRS | SPECIFICATION SHEET | PART NO. IX61-A-8P | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO CL251-0001-2-00 | ⚠ 3/3 |