

| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
|-------|--------------------------|----|------|------|-------|--------------------------|----|------|------|
| △ | | | | | △ | | | | |
| △ | | | | | △ | | | | |

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|-------------------------|---------------------------|--------------------|
| RATING | OPERATING TEMPERATURE RANGE | -35 °C TO +85 °C(NOTE1) | STORAGE TEMPERATURE RANGE | -10 °C TO +60 °C |
| | VOLTAGE | 100 V AC | APPLICABLE CONTACT | — |
| | CURRENT | AWG40 : 0.3A | APPLICABLE CONNECTOR | DF19*-20P-1H |
| | | | APPLICABLE CABLE | THIN COAXIAL CABLE |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|------|-------------|--------------|----|----|
|------|-------------|--------------|----|----|

CONSTRUCTION

| | | | | |
|---------------------|---------------------------------------|-----------------------|---|---|
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | ○ | ○ |
| MARKING | CONFIRMED VISUALLY. | | ○ | ○ |

ELECTRICAL CHARACTERISTICS

| | | | | |
|---|-------------------------------|----------------------------|---|---|
| CONTACT RESISTANCE | 100 mA (DC OR 1000 Hz). | 30 mΩ MAX. | — | — |
| CONTACT RESISTANCE MILLIVOLT LEVEL METHOD | 20 mV MAX, mA(DC OR 1000 Hz). | | — | — |
| INSULATION RESISTANCE | 100 V DC. | 500 MΩ MIN. | — | — |
| VOLTAGE PROOF | 300 V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | ○ | — |

MECHANICAL CHARACTERISTICS

| | | | | |
|---|---|---|---|---|
| CONTACT INSERTION AND EXTRACTION FORCES | 0.2 ± 0.005 mm BY STEEL GAUGE. | INSERTION FORCE : 3.0 N MAX. EXTRACTION FORCE : 0.2 N MIN. | — | — |
| INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR. | INSERTION FORCE N MAX. EXTRACTION FORCE N MIN. | — | — |
| MECHANICAL OPERATION | 30 TIMES INSERTION AND EXTRACTION. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | — | — |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1 μs. | — | — |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | ② CONTACT RESISTANCE: - mΩ MAX. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | — | — |

ENVIRONMENTAL CHARACTERISTICS

| | | | | |
|------------------------------|---|---|---|---|
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5~35 → +85 → 5~35 °C TIME 30 → 2~3 → 30 → 2~3 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 30 mΩ MAX. ② INSULATION RESISTANCE: 500 MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | — | — |
| DAMP HEAT(STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 ~95 %, 96 h. | | — | — |
| CORROSION, SALT MIST | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h. | ① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION. | — | — |
| HYDROGEN SULPHIDE | EXPOSED IN PPM FOR h. (TEST STANDARD: JEIDA-38) | ① CONTACT RESISTANCE: mΩ MAX. ② NO HEAVY CORROSION. | — | — |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | ① CONTACT RESISTANCE: - mΩ MAX. ② NO HEAVY CORROSION. | — | — |
| RESISTANCE TO SOLDERING HEAT | SOLDER TEMPERATURE, 260 °C, FOR IMMERSION DURATION, 10 s. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | — | — |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 235 °C FOR IMMERSION DURATION, 2 s. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMersed. | — | — |

| | | | | | |
|--|-------------------------------|-------------------------------|---------------------------|--------------------------------|----------|
| REMARKS | DRAWN | DESIGNED | CHECKED | APPROVED | RELEASED |
| NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | <i>J. Tashiro</i> '99.4.12 | <i>J. Tashiro</i> '99.4.12 | <i>J. One</i> '99.4.12 | <i>K. Katayama</i> '99.4.12 | |
| Unless otherwise specified, refer to MIL-STD-1344. | | | | | |

| | | | |
|--|----------------------------|---------------------|--------|
| Note QT:Qualification Test AT:Assurance Test ○:Applicable Test | | PART NO. | |
| HRS HIROSE ELECTRIC CO., LTD. | | SPECIFICATION SHEET | |
| CODE NO.(OLD) | | PART NO. | |
| CL | DRAWING NO. ELC4-162937 | CL 685-0027-6 | 1 1 |

TO