| APPLICABLE STANDARD | | UL approved(E52653) ⚠1 | | |
|---|---|---|---|---|
| Rating | Operating Temperature Range | -25°C to +85°C | Storage Temperature Range | -10°C to +60°C |
| | Voltage | AC,DC 125 V<br>AC,DC 250 V (UL) ⚠2 | Wire Size | 16 AWG MAX |
| | Current | 10 A | Applicable Cable | ———— |

## 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 DC 1A. | 5 mΩ MAX. | X | X |
| Insulation Resistance | Measured at 500 V DC. | 1000 MΩ MIN. | X | X |
| Voltage Proof | 1250 V AC applied for 1 min. | No flashover or breakdown. | X | X |
| **MECHANICAL CHARACTERISTICS** | | | | |
| Contact Insertion and Extraction Forces | ———— by steel gauge. | Insertion and extraction forces: - N MIN. | X | – |
| Mating and Unmating Forces | Measured with an applicable connector. | Mating and unmating forces : 30 N MAX.<br>(Without lock) | X | – |
| Mechanical Operation | Mated and unmated 1000 times. | Contact resistance: 10 mΩ MAX. | X | – |
| Vibration | Frequency: 10 Hz to 55 Hz to 10 Hz<br>Single amplitude: 0.75 mm<br>Performed over 10 cycles, at 5 minutes per cycle, in each of three mutually perpendicular directions. | 1) No electrical discontinuity of more than 10 μs.<br>2) No damage, cracks or looseness of parts. | X | – |
| Shock | Acceleration: 490 m/s$^2$, Half sine wave pulses of 11 ms.<br>Performed 3 times in each of three mutually perpendicular directions. | 1) No electrical discontinuity of more than 10 μs.<br>2) No damage, cracks or looseness of parts. | X | – |
| **ENVIRONMENTAL CHARACTERISTICS** | | | | |
| Damp Heat, Steady State | Subjected to a temperature of +40°C, at a humidity of 90 to 95% for 96 hours. | 1) Insulation resistance: 10 MΩ MIN. (At high humidity)<br>2) Insulation resistance: 100 MΩ MIN. (When dry)<br>3) No damage, cracks or looseness of parts. | X | – |
| Rapid Change of Temperature | Temperature: -55 → R/T(1) → +85 → R/T °C<br>Time: 30 → 2 to 3 → 30 → 2 to 3 min<br>for 5 cycles. | 1) Insulation resistance: 100 MΩ MIN.<br>2) No damage, cracks or looseness of parts. | X | – |
| Corrosion Salt Mist | Subjected to 5% salt spray for 48 hours. | No heavy corrosion which impairs functionality. | X | – |
| Dry Heat | Subjected to +85℃ for 96 hours. | No damage, cracks or looseness of parts. | X | – |
| Cold | Subjected to -55℃ for 96 hours. | No damage, cracks or looseness of parts. | X | – |
| Resistance to Soldering Heat | Soldering iron is placed to the soldering surface for 5±1 s.<br>(Iron tip temperature +350 ± 10℃) | No deformation or excessive looseness of terminals. | X | – |
| Solderability | Soldering iron is placed to the soldering surface for 2 to 3 s.<br>(Iron tip temperature +350 ± 10℃) | Soldering surface shall be free from pin-holes, de-wetted and un-wetted areas and other defects. | X | – |
| Sealing(2) | Subjected to a depth of 1.8 m for 48 hours. | No water penetration into the connector. | X | – |
| Air Tightness(2) | 17.6 kPa of air pressure applied to the inside of the mated connector for 30 seconds. | No air bubbles emitted from the inside of the connector. | X | – |

| | COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---|---|---|---|---|
| ⚠2 | 2 | DIS-C-00003269 | KN. IKEHARA | HN. TANAKA | 20190614 |

NOTES
(1) R/T : Room Temperature
(2) Sealing and Air Tightness are tested in mated condition with an applicable connector.
Unless otherwise specified, refer to IEC 60512. (JIS C 5402) ⚠2

| | | |
|---|---|---|
| APPROVED | MO. SATOH | 20070727 |
| CHECKED | EJ. KUNII | 20070727 |
| DESIGNED | TO. HORII | 20070724 |
| DRAWN | TO. HORII | 20070724 |

Note QT:Qualification Test AT:Assurance Test X:Applicable Test

DRAWING NO. ELC4-115618-00

HRS

SPECIFICATION SHEET

HIROSE ELECTRIC CO., LTD.

PART NO. LF10WBRB-4P

CODE NO. CL136-1118-4-00 ⚠2

1/1

FORM HD0011-2-1