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| COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE | COUNT | DESCRIPTION OF REVISIONS | BY | CHKD | DATE |
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|----------------------------|-----------------------------|------------------|--|---------------------------|--|------------------|--|
| <b>APPLICABLE STANDARD</b> |                             | -25 °C TO +85 °C |  | STORAGE TEMPERATURE RANGE |  | -25 °C TO +85 °C |  |
| RATING                     | OPERATING TEMPERATURE RANGE | -25 °C TO +85 °C |  | STORAGE TEMPERATURE RANGE |  | -25 °C TO +85 °C |  |
|                            | VOLTAGE                     | AC 30 V, DC 42 V |  |                           |  |                  |  |
|                            | CURRENT                     | 2 A              |  | APPLICABLE CABLE          |  |                  |  |

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

|                     |                                       |  |                       |  |
|---------------------|---------------------------------------|--|-----------------------|--|
| <b>CONSTRUCTION</b> |                                       |  |                       |  |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. |  | ACCORDING TO DRAWING. |  |
| MARKING             | CONFIRMED VISUALLY.                   |  |                       |  |

|                                 |                                     |                            |   |   |
|---------------------------------|-------------------------------------|----------------------------|---|---|
| <b>ELECTRIC CHARACTERISTICS</b> |                                     |                            |   |   |
| CONTACT RESISTANCE              | CONTACT SHALL BE MEASURED AT DC 1 A | 15 mΩ MAX.                 | ○ | ○ |
|                                 | CONTACT SHALL BE MEASURED AT DC — A | — mΩ MAX.                  | — | — |
| INSULATION RESISTANCE           | 100 V DC.                           | 1000 MΩ MIN.               | ○ | ○ |
| VOLTAGE PROOF                   | 300 V AC FOR 1 min.                 | NO FLASHOVER OR BREAKDOWN. | ○ | ○ |

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| <b>MECHANICAL CHARACTERISTICS</b>         |  |  |   |   |
| CONNECTOR INSERTION AND WITHDRAWAL FORCES | MEASURED BY APPLICABLE CONNECTOR WITHOUT LOCKING DEVICE.   | INSERTION AND WITHDRAWAL FORCES : 25 N MAX.  | ○ | — |
| MECHANICAL OPERATION                      | 1000 TIMES INSERTIONS AND EXTRACTIONS.   | CONTACT RESISTANCE: 30 mΩ MAX.<br>— RESISTANCE: — mΩ MAX.                            | ○ | — |
| VIBRATION                                 | FREQUENCY: 10 → 55 → 10 (Hz) (1CYC, 5min),<br>SINGLE AMPLITUDE 0.75 mm, AT 10 CYC,<br>FOR 3 DIRECTIONS.          | ①NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | — |
| SHOCK                                     | IN OPPOSITE DIRECTIONS OF EACH 3 DEMENSION AXIS<br>FOR 3 TIMES AT 490 m/s <sup>2</sup> DURATIONS OF PULSE 11 ms. | ①NO ELECTRICAL DISCONTINUITY OF 10 μs.<br>②NO DAMAGE, CRACK AND LOOSENESS, OF PARTS. | ○ | — |
| BREAKING STRENGTH                         | MAX 100 N SHALL BE APPLIED TO CABLE IN UP AND DOWN,<br>LEFT AND RIGHT DIRECTIONS WHEN MATED.                     | NO BREAKAGE MAX 100N.  | ○ | — |

|                                      |  |  |   |   |
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| <b>ENVIRONMENTAL CHARACTERISTICS</b> |  |  |   |   |
| DAMP HEAT (STEADY STATE)             | EXPOSED AT 40 °C, 90 TO 95 %, 96 h.  | ①INSULATION RESISTANCE: 10 MΩ MIN (AT HIGH HUMIDITY).<br>②INSULATION RESISTANCE: 100 MΩ MIN (AT DRY).<br>③NO DAMAGE, CRACK AND LOOSENESS OF PARTS. | ○ | — |
| RAPID CHANGE OF TEMPERATURE          | TEMPERATURE -55 → R/T <sup>(1)</sup> → +85 → R/T °C<br>TIME 30 → 2 TO 3 → 30 → 2 TO 3 min<br>UNDER 5 CYCLES. | ①INSULATION RESISTANCE: 100 MΩ MIN.<br>②NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ○ | — |
| CORROSION SALT MIST                  | EXPOSED IN 5 % SALT WATER SPRAY FOR 48 h.  | NO HEAVY CORROSION.  | ○ | — |
| DRY HEAT                             | EXPOSED AT +85 °C, 96 h.   | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ○ | — |
| COLD                                 | EXPOSED AT -55 °C, 96 h.   | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   | ○ | — |
| RESISTANCE TO SOLDERING HEAT         | SOLDER TEMPERATURE, +350±10°C, FOR IMMERSION DURATION, 5±1 s.  | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS.  | ○ | — |
| SOLDERABILITY                        | SOLDERED AT SOLDER TEMPERATURE, +350±10°C FOR IMMERSION DURATION, 2 TO 3 s.                                  | SOLDER SURFACE TO BE FREE FROM PIN-HOLE, NO WETTING AND OTHER DEFECTS.   | ○ | — |
| SEALING                              | EXPOSED AT A DEPTH OF 1.8 m FOR 48 h.  | NO WATER PENETRATION INSIDE CONNECTOR.   | ○ | — |
| AIR TIGHTNESS                        | APPLY AIR PRESSURE 17.6kPa FOR 0.5min TO INSIDE CONNECTOR.   | NO AIR BUBBLES INSIDE CONNECTOR.   | ○ | ○ |

|                |             |          |          |            |          |
|----------------|-------------|----------|----------|------------|----------|
| <b>REMARKS</b> | DRAWN       | DESIGNED | CHECKED  | APPROVED   | RELEASED |
|                | H.Kawashima | H.Zemba  | M. Sato  | M. Yoshida |          |
|                | '04.6.8     | '04.8.3  | '04.8.31 | '04.09.01  |          |

NOTE(1) R/T : ROOM TEMPERATURE  
Unless otherwise specified, refer to JIS C 5402.

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

|                                      |                         |                       |
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| <b>HRS</b> HIROSE ELECTRIC CO., LTD. | SPECIFICATION SHEET     | PART NO. LF07WBR-6P   |
| CODE NO. (OLD) CL                    | DRAWING NO. ELC4-113836 | CODE NO. CL136-1001-7 |

