

| APPLICABLE STANDARD  |   |                              |  |   |                |          |
|--|---|------------------------------|--|---|----------------|----------|
| RATING   | OPERATING TEMPERATURE RANGE   | - 55°C TO + 85°C (90%RH MAX) | STORAGE TEMPERATURE RANGE  | - 55°C TO + 85°C (90%RH MAX)  |                |          |
|  | POWER   | —W                           | CHARACTERISTIC IMPEDANCE   | 50 Ω ( 0 TO 6 GHz)  |                |          |
|  | PECULIARITY   | —                            | APPLICABLE CABLE   | FWS5032 (KURABE INDUSTRIAL CO., LTD.)<br>RF-MF50141 (NISSEI ELECTRIC CO., LTD.)<br>J12B1481 (Junkosha Inc.) |                |          |
| SPECIFICATIONS   |   |                              |  |   |                |          |
| ITEM   | TEST METHOD   |                              | REQUIREMENTS   |   | QT             | AT       |
| <b>CONSTRUCTION</b>  |   |                              |  |   |                |          |
| GENERAL EXAMINATION  | VISUALLY AND BY MEASURING INSTRUMENT.   |                              | ACCORDING TO DRAWING.  |   | X              | X        |
| MARKING  | CONFIRMED VISUALLY.   |                              |  |   | —              | —        |
| <b>ELECTRIC CHARACTERISTICS</b>                                |   |                              |  |   |                |          |
| CONTACT RESISTANCE   | 100 mA MAX (DC OR 1000 Hz).   |                              | CENTER CONTACT   | 10 mΩ MAX.  | X              | X        |
|  |   |                              | OUTER CONTACT  | 5 mΩ MAX.   | X              | X        |
| INSULATION RESISTANCE  | 500 V DC.   |                              | 500 MΩ MIN.  |   | X              | X        |
| VOLTAGE PROOF  | 500 V AC FOR 1 min. CURRENT LEAKAGE 2mA MAX.  |                              | NO FLASHOVER OR BREAKDOWN.   |   | X              | X        |
| VOLTAGE STANDING WAVE RATIO                                    | FREQUENCY 0.045 TO 6 GHz  |                              | VSWR   | 1.2 MAX.  | X              | —        |
| INSERTION LOSS   | FREQUENCY TO GHz  |                              | dB MAX.  |   | —              | —        |
| <b>MECHANICAL CHARACTERISTICS</b>                              |   |                              |  |   |                |          |
| CONTACT INSERTION AND EXTRACTION FORCES                        | BY STEEL GAUGE.   |                              | INSERTION FORCE  | N MAX.  | —              | —        |
|  |   |                              | EXTRACTION FORCE   | N MIN.  | —              | —        |
| INSERTION AND WITHDRAWAL FORCES                                | MEASURED BY APPLICABLE CONNECTOR.   |                              | INSERTION FORCE  | 15 N MAX.   | X              | —        |
|  |   |                              | EXTRACTION FORCE   | 6~15 N  | X              | X        |
| MECHANICAL OPERATION   | 500 TIMES INSERTIONS AND EXTRACTIONS.   |                              | 1) CONTACT RESISTANCE:<br>CENTER CONTACT 20 mΩ MAX. CHANGE<br>OUTER CONTACT 10 mΩ MAX. CHANGE<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.             |   | X              | —        |
| VIBRATION  | FREQUENCY 10 TO 500 Hz<br>SINGLE AMPLITUDE 0.75 mm, 98 m/s <sup>2</sup><br>AT 12 CYCLES FOR 3 DIRECTIONS. (TOTAL 36 CYCLES) |                              | 1) NO ELECTRICAL DISCONTINUITY OF 1 μs.<br>2) NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   |   | X              | —        |
| SHOCK  | 735 m/s <sup>2</sup> DIRECTIONS OF PULSE 6 ms<br>AT 3 TIMES FOR 3 DIRECTIONS.   |                              |  |   | X              | —        |
| CABLE CLAMP ROBUSTNESS (AGAINST CABLE PULL)                    | APPLYING A PULL FORCE THE CABLE AXIALLY AT 19.6 N MAX.  |                              | 1) NO WITHDRAWAL AND BREAKAGE OF CABLE.<br>2) NO BREAKAGE OF CLAMP.  |   | X              | —        |
| <b>ENVIRONMENTAL CHARACTERISTICS</b>                           |   |                              |  |   |                |          |
| DAMP HEAT  | EXPOSED AT 40 °C, 95 % ( 96 h)  |                              | 1) INSULATION RESISTANCE: 10 MΩ MIN. (AT HIGH HUMIDITY)<br>2) INSULATION RESISTANCE: 500 MΩ MIN. (AT DRY)<br>3) NO DAMAGE, CRACK AND LOOSENESS OF PARTS. |   | X              | —        |
| RAPID CHANGE OF TEMPERATURE                                    | TEMPERATURE -55 → 20~35 → +85 → 20~35 °C<br>TIME 30 → 3 → 30 → 3 min<br>UNDER 5 CYCLES.                                     |                              | NO DAMAGE, CRACK AND LOOSENESS OF PARTS.   |   | X              | —        |
| CORROSION SALT MIST  | EXPOSED IN 5% SALT WATER SPRAY FOR 48h.   |                              | NO HEAVY CORROSION.  |   | X              | —        |
|  | COUNT   | DESCRIPTION OF REVISIONS     | DESIGNED   | CHECKED   | DATE           |          |
| REMARK   | RoHS COMPLIANT  |                              |  | APPROVED  | MH. YAMANE     | 10.10.27 |
|  |   |                              |  | CHECKED   | TS. NOBE       | 10.10.27 |
|  |   |                              |  | DESIGNED  | NK. OOSAWA     | 10.10.26 |
|  |   |                              |  | DRAWN   | NK. OOSAWA     | 10.10.26 |
| Unless otherwise specified, refer to JIS C 5402.               |   |                              | DRAWING NO.  |   | ELC4-303198-40 |          |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |   |                              |  |   |                |          |
| <b>HRS</b>   | SPECIFICATION SHEET   |                              | PART NO.   | MMCX-LP-088 (40)  |                |          |
|  | HIROSE ELECTRIC CO., LTD.   |                              | CODE NO.   | CL339-0020-1-40   |                |          |
|  |   |                              |  |   |                | 1/1      |