

| 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  | 50Ω ( 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 |
| CONSTRUCTION                                                   |                                                                                                                             |                                                                                                                                                          |             |                           |                                                                                                             |    |
| GENERAL EXAMINATION                                            |                                                                                                                             | VISUALLY AND BY MEASURING INSTRUMENT.                                                                                                                    |             | ACCORDING TO DRAWING.     | X                                                                                                           | X  |
| MARKING                                                        |                                                                                                                             | CONFIRMED VISUALLY.                                                                                                                                      |             |                           | —                                                                                                           | —  |
| ELECTRIC CHARACTERISTICS                                       |                                                                                                                             |                                                                                                                                                          |             |                           |                                                                                                             |    |
| 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.     | —                         | —                                                                                                           |    |
| MECHANICAL CHARACTERISTICS                                     |                                                                                                                             |                                                                                                                                                          |             |                           |                                                                                                             |    |
| 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                                                                                                           | —  |
| ENVIRONMENTAL CHARACTERISTICS                                  |                                                                                                                             |                                                                                                                                                          |             |                           |                                                                                                             |    |
| 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<br>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.               |                                                                                                                             |                                                                                                                                                          |             |                           |                                                                                                             |    |
| Note QT:Qualification Test AT:Assurance Test X:Applicable Test |                                                                                                                             | DRAWING NO.                                                                                                                                              |             | ELC4-303198-40            |                                                                                                             |    |
| HRS                                                            | SPECIFICATION SHEET                                                                                                         |                                                                                                                                                          | PART NO.    | MMCX-LP-088 (40)          |                                                                                                             |    |
|                                                                | HIROSE ELECTRIC CO., LTD.                                                                                                   |                                                                                                                                                          | CODE NO.    | CL339-0020-1-40           | △ 1/1                                                                                                       |    |