

| APPLICABLE STANDARD | | | | |
|---------------------|-----------------------------|--------------------------------------|---------------------------|---------------------------|
| RATING | OPERATING TEMPERATURE RANGE | -35°C TO + 85°C (NOTE 1) | STORAGE TEMPERATURE RANGE | -10°C TO + 60°C |
| | VOLTAGE | 50V AC | APPLICABLE CONNECTOR | DF21-20S-0.6V(56) |
| | CURRENT | AWG40 : 0.3A AWG36 : 0.5A (NOTE2) | APPLICABLE CABLE (NOTE 3) | THIN COAXIAL RIBBON CABLE |

SPECIFICATIONS

| ITEM | TEST METHOD | REQUIREMENTS | QT | AT |
|--------------------------------------|--|---|----|----|
| CONSTRUCTION | | | | |
| GENERAL EXAMINATION | VISUALLY AND BY MEASURING INSTRUMENT. | ACCORDING TO DRAWING. | X | X |
| MARKING | CONFIRMED VISUALLY. | | X | X |
| ELECTRIC CHARACTERISTICS | | | | |
| CONTACT RESISTANCE | 100 mA (DC OR 1000Hz). | 100mΩ MAX. | X | - |
| INSULATION | 100V DC. | 500MΩ MIN. | X | - |
| VOLTAGE PROOF | 150V AC FOR 1 min. | NO FLASHOVER OR BREAKDOWN. | X | - |
| MECHANICAL CHARACTERISTICS | | | | |
| MECHANICAL OPERATION | 30 TIMES INSERTION AND EXTRACTION. | ① CONTACT RESISTANCE: 100mΩ MAX. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| VIBRATION | FREQUENCY 10 TO 55 Hz, SINGLE AMPLITUDE 0.75 mm, AT 2 h, FOR 3 DIRECTIONS. | ① NO ELECTRICAL DISCONTINUITY OF 1μs. ② NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| SHOCK | 490 m/s ² DURATION OF PULSE 11 ms AT 3 TIMES FOR 3 DIRECTIONS. | | X | - |
| ENVIRONMENTAL CHARACTERISTICS | | | | |
| RAPID CHANGE OF TEMPERATURE | TEMPERATURE -55 → 5 TO 35 → +85 → 5 TO 35 °C TIME 30 → 2 TO 3 → 30 → 2 TO 3 min UNDER 5 CYCLES. | ① CONTACT RESISTANCE: 100mΩ MAX. ② INSULATION RESISTANCE: 50MΩ MIN. ③ NO DAMAGE, CRACK OR LOOSENESS OF PARTS. | X | - |
| DAMP HEAT (STEADY STATE) | EXPOSED AT 40 ± 2 °C, 90 TO 95 %, 96 h. | | X | - |
| CORROSION, SALT MIST | EXPOSED IN 5% SALT WATER SPRAY FOR 48 h. | | X | - |
| SULPHUR DIOXIDE | EXPOSED IN 10 PPM FOR 96 h. (TEST STANDARD: JEIDA-39) | | X | - |
| RESISTANCE TO SOLDERING HEAT | 1) FOR REFFLOW SPLDERING TEMPERATURE: MAX 270°C, 5 sec MAX. MIN 200°C AND OVER, 30 sec MAX. 2) MANUAL SOLDERING TEMPERATURE: 350 ± 5 °C, 3 sec MAX.. | NO DEFORMATION OF CASE OF EXCESSIVE LOOSENESS OF THE TERMINALS. | X | - |
| SOLDERABILITY | SOLDERED AT SOLDER TEMPERATURE, 230°C FOR IN IMMERSION , DURATION, 3 s. | SOLDER SHALL COVER A MINIMUM OF 95 % OF THE SURFACE BEING IMMERSED. | X | - |

| COUNT | DESCRIPTION OF REVISIONS | DESIGNED | CHECKED | DATE |
|---|---------------------------|-------------|---------------------|---------------------|
| △ | | | | |
| REMARKS | | | APPROVED | TY.OMA 06.02.04 |
| NOTE 1: INCLUDE THE TEMPERATURE RISING BY CURRENT. | | | CHECKED | HK.UMEHARA 06.02.04 |
| NOTE 2: IN CASE OF APPLYING HIGHER CURRENT ON A CERTAIN PATTERN OF FPC, INDIVIDUAL EXAMINATION IS REQUIRED. | | | DESIGNED | SZ.ONO 06.02.03 |
| NOTE 3: WITHDRAWAL PREVENTION TREATMENT TO BE MADE FOR CABLE WITHOUT GROUND BAR. OUTER DIAMETERS: 0.4mm MAX Unless otherwise specifid , refer to JIS C 5402. | | | DRAWN | SZ.ONO 06.02.03 |
| Note QT: Qualification Test AT: Assurance Test X: Applicable Test | | DRAWING NO. | ELC4-163698-01 | |
| HRS | SPECIFICATION SHEET | PART NO. | DF21-20P-0.6SD (05) | |
| | HIROSE ELECTRIC CO., LTD. | CODE NO. | CL687-1500-0-05 | △ 1/1 |