

CABLINE[®]-SS Connector

半田 Ground Bar タイプ

Part No. Plug: 20380 Receptacle: 20374

Test Report

Product Specification no. PRS-1239

| | | | | | |
|------|--------|--------------------|-------------|-------------|-------------|
| 13 | T22128 | September 5, 2022 | K. Hara | T. Tanigawa | H. Ikari |
| 12 | T22046 | February 15, 2022 | K. Hara | T. Tanigawa | H. Ikari |
| 11 | T19061 | June 11, 2019 | K. Hara | T. Masunaga | H. Ikari |
| 10 | T17151 | September 11, 2017 | R. Hoshino | H. Tagomori | M. Takemoto |
| Rev. | ECN | Date | Prepared by | Checked by | Approved by |

1. 目的

CABLINE-SS コネクタの性能を PRS-1239 に基づいて評価する。

2. 資料

- (1) CABLINE-SS PLUG ASS'Y (Part No. 20380-***T-**)
- (2) CABLINE-SS RECEPTACLE ASS'Y (Part No.20374-***E-**)

3. 試験順序

全ての評価は表 1 の試験順序に従って行った。

4. 結果

表 2-1～2-4、グラフ 1～23 参照。試験条件の詳細は PRS-1239 参照。n 数は測定データを意味する。

5. 結論

全ての資料が製品規格（PRS-1239）の必要条件を満足した。

表 1 試験順序と試料数

| 試験項目 | グループ | | | | | | | | | | | | | |
|-----------------------|-----------|------------|-----------|-----------|-----------|-----------|---------------|-----------|-----------|-----------|-----------|------------|------------|-----------|
| | A | B | C | D | E | F | G | H | J | K | L | M | N | |
| 接触抵抗 | 2,6 | | 1,3,5 | 1,3 | 1,3 | 1,5 | 1,5,7 | 1,3 | 1,3 | 1,3 | | | | |
| 絶縁抵抗 | | | | | | 2,6 | 2,8 | | | | | | | |
| 耐電圧 | | | | | | 3,7 | 3,9 | | | | | | | |
| 温度上昇 | | | | | | | | | | | | | 1 | |
| 挿入力 | 1,5 | | | | | | | | | | | | | |
| 抜去力 | 3,7 | | | | | | | | | | | | | |
| 耐久性 | 4 | | | | | | 4 (10サイクル) | | | | | | | |
| 端子保持力 | | 1,3 | | | | | | | | | | | | |
| ケーブル保持力 | 8 | | | | | | | | | | | | | |
| 耐振動性 | | | 2 | | | | | | | | | | | |
| 耐衝撃性 | | | 4 | | | | | | | | | | | |
| 熱衝撃 | | | | 2 | | | | | | | | | | |
| 高温寿命 | | 2 | | | 2 | | | | | | | | | |
| 湿度 (定常状態) | | | | | | 4 | | | | | | | | |
| 湿度 (サイクリング) | | | | | | | 6 | | | | | | | |
| 塩水噴霧 | | | | | | | | 2 | | | | | | |
| ガス (H ₂ S) | | | | | | | | | 2 | | | | | |
| 低温寿命 | | | | | | | | | | 2 | | | | |
| 半田付け性 | | | | | | | | | | | 1 | | | |
| 半田耐熱性 | | | | | | | | | | | | 1 | | |
| 試料数 | 5 pcs. | 20 pos. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 5 pcs. | 10 pcs. | 10 pcs. | 5 pcs. |

※グループ表中の番号は、試験順序を示す。

表 2-1. 試験結果

| 試験項目 | 測定内容 | | 規格 | Set | N | データ | | | | | 判定 | | |
|---|-----------------------------|------------------|------------|-----------------------|---|--------|--------|---------|---------|---------|---------|---------|------|
| | | | | | | AVE. | MAX. | MIN. | s | X±3s | | | |
| A Group 耐久性 ↓ ケーブル保持力 Sn Type | AWG#34 Discrete cable | 接触抵抗 (mΩ) | 初期 | AWG#34 180mΩMAX | 5 | 250 | | 128.495 | 136.85 | 120.55 | 3.51 | 138.999 | Pass |
| | | | 30回挿抜後 | AWG#34 ΔR=40mΩMAX. | | | R | 128.974 | 137.78 | 117.20 | 3.82 | 140.443 | Pass |
| | | | | | | | ΔR | 0.478 | 8.69 | -8.32 | 3.55 | 11.127 | |
| | AWG#36 | 接触抵抗 (mΩ) | 初期 | AWG#36 275mΩMAX | 5 | 250 | | 171.335 | 174.21 | 168.04 | 1.541 | 175.957 | Pass |
| | | | 30回挿抜後 | AWG#36 ΔR=40mΩMAX. | | | R | 171.546 | 173.94 | 169.86 | 175.002 | 175.00 | Pass |
| | | | | | | | ΔR | 0.211 | 2.25 | -3.24 | 3.985 | 3.98 | |
| | | Ground抵抗 (mΩ) | 初期 | 50mΩMAX. | 5 | - | | 16.656 | 17.00 | 16.32 | 0.239 | 17.372 | Pass |
| | | | 30回挿抜後 | ΔR=40mΩMAX. | | | R | 17.225 | 18.07 | 16.30 | 0.482 | 18.670 | Pass |
| | | | | | | | ΔR | 0.569 | 1.17 | -0.57 | 0.530 | 2.158 | |
| | AWG#40 | 接触抵抗(mΩ) | 初期 | AWG#40 600mΩMAX | 5 | 250 | | 502.171 | 508.953 | 497.367 | 2.532 | 509.769 | Pass |
| | | | 30回挿抜後 | AWG#40 ΔR=40mΩMAX. | | | R | 501.257 | 506.200 | 496.875 | 2.011 | 507.291 | Pass |
| | | | | | | | ΔR | -0.915 | 4.659 | -6.524 | 2.017 | -6.964 | |
| | | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 13.147 | 13.815 | 12.378 | 0.609 | 14.974 | Pass |
| | | | 30回挿抜後 | ΔR=40mΩMAX. | | | R | 13.089 | 13.682 | 12.492 | 0.549 | 14.735 | Pass |
| | | | | | | | ΔR | -0.058 | 1.304 | -1.316 | 1.098 | -3.235 | |
| | AWG#42 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX | 5 | 250 | | 618.595 | 639.39 | 589.70 | 12.116 | 654.943 | Pass |
| | | | 30回挿抜後 | AWG#42 ΔR=40mΩMAX. | | | R | 618.105 | 639.76 | 590.62 | 12.129 | 654.492 | Pass |
| | | | | | | | ΔR | -0.442 | 2.87 | -3.22 | 1.395 | 3.743 | Pass |
| | | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 18.508 | 20.42 | 17.50 | 1.205 | 22.123 | Pass |
| | | | 30回挿抜後 | ΔR=40mΩMAX. | | | R | 21.191 | 23.64 | 18.66 | 2.109 | 27.518 | Pass |
| | | | | | | | ΔR | 2.683 | 5.98 | 0.45 | 2.357 | 9.754 | Pass |
| | 10P | 挿入力(N) | 初期 | 29.0N MAX. | 5 | - | | 14.687 | 14.81 | 14.50 | - | - | Pass |
| | | | 30回挿抜後 | 29.0N MAX. | | | | 8.870 | 10.13 | 7.63 | - | - | Pass |
| | | 抜き力(N) | 初期 | 4.00N MIN. | 5 | - | | 17.993 | 19.74 | 16.08 | - | - | Pass |
| 30回挿抜後 | | | 2.87N MIN. | | | | 6.380 | 6.92 | 6.10 | - | - | Pass | |
| ケーブル保持力(N) | | 4.90N MIN. | 5 | - | | 40.410 | 43.37 | 37.45 | - | - | Pass | | |
| 14P | | 挿入力(N) | 初期 | 29.8N MAX. | 5 | - | | 20.087 | 24.86 | 17.58 | - | - | Pass |
| | 30回挿抜後 | | 29.8N MAX. | | | | 9.200 | 10.24 | 8.03 | - | - | Pass | |
| | 抜き力(N) | 初期 | 4.40N MIN. | 5 | - | | 21.963 | 24.82 | 19.30 | - | - | Pass | |
| | | 30回挿抜後 | 3.23N MIN. | | | | 10.170 | 11.15 | 9.12 | - | - | Pass | |
| | ケーブル保持力(N) | | 6.86N MIN. | 5 | - | | 52.070 | 53.10 | 51.50 | - | - | Pass | |
| | 20P | 挿入力(N) | 初期 | 31.0N MAX. | 5 | - | | 24.377 | 25.00 | 23.52 | - | - | Pass |
| 30回挿抜後 | | | 31.0N MAX. | | | | 12.775 | 13.82 | 10.77 | - | - | Pass | |
| 抜き力(N) | | 初期 | 5.00N MIN. | 5 | - | | 15.940 | 16.73 | 14.47 | - | - | Pass | |
| | | 30回挿抜後 | 3.76N MIN. | | | | 9.070 | 9.55 | 8.51 | - | - | Pass | |
| ケーブル保持力(N) | | 9.8N MIN. | 5 | - | | 48.525 | 54.50 | 42.50 | - | - | Pass | | |
| 30P | | 挿入力(N) | 初期 | 33.0N MAX. | 5 | - | | 27.930 | 28.52 | 27.15 | - | - | Pass |
| | 30回挿抜後 | | 33.0N MAX. | | | | 18.032 | 19.01 | 17.05 | - | - | Pass | |
| | 抜き力(N) | 初期 | 6.00N MIN. | 5 | - | | 16.987 | 18.42 | 16.27 | - | - | Pass | |
| | | 30回挿抜後 | 4.65N MIN. | | | | 10.780 | 11.96 | 10.00 | - | - | Pass | |
| | ケーブル保持力(N) | | 14.7N MIN. | 5 | - | | 57.758 | 62.72 | 50.91 | - | - | Pass | |

表 2-2. 試験結果

| 試験項目 | 測定内容 | | 規格 | Set | N | データ | | | | | 判定 | | |
|---|---------------|------------|-------------|-----------------------|--------|---------------------|--------|---------|--------|--------|-------|---------|------|
| | | | | | | AVE. | MAX. | MIN. | s | X±3s | | | |
| A Group 耐久性 ↓ ケーブル保持力 Sn Type | 32P | 挿入力(N) | 初期 | 33.4N MAX. | 5 | - | 28.152 | 28.98 | 27.36 | - | - | Pass | |
| | | | 30回挿抜後 | 33.4N MAX. | | | 18.058 | 18.55 | 17.58 | - | - | Pass | |
| | | 抜去力(N) | 初期 | 6.20N MIN. | 5 | - | 17.923 | 18.58 | 17.17 | - | - | Pass | |
| | | | 30回挿抜後 | 4.84N MIN. | | | 11.200 | 11.81 | 10.54 | - | - | Pass | |
| | ケーブル保持力(N) | | 15.68N MIN. | 5 | - | 60.350 | 67.20 | 52.60 | - | - | Pass | | |
| | 35P | 挿入力(N) | 初期 | 34.0N MAX. | 5 | - | 29.913 | 30.56 | 29.43 | - | - | Pass | |
| | | | 30回挿抜後 | 34.0N MAX. | | | 20.113 | 21.06 | 18.92 | - | - | Pass | |
| | | 抜去力(N) | 初期 | 6.5N MIN. | 5 | - | 19.840 | 20.31 | 19.00 | - | - | Pass | |
| | | | 30回挿抜後 | 5.07N MIN. | | | 8.906 | 9.25 | 8.39 | - | - | Pass | |
| | ケーブル保持力(N) | | 17.15N MIN. | 5 | - | 55.930 | 57.65 | 54.38 | - | - | Pass | | |
| | 40P | 挿入力(N) | 初期 | 35.0N MAX. | 5 | - | 33.560 | 34.30 | 32.93 | - | - | Pass | |
| | | | 30回挿抜後 | 35.0N MAX. | | | 19.840 | 21.07 | 18.62 | - | - | Pass | |
| | | 抜去力(N) | 初期 | 7.00N MIN. | 5 | - | 17.326 | 19.99 | 14.01 | - | - | Pass | |
| | | | 30回挿抜後 | 5.50N MIN. | | | 11.446 | 12.05 | 10.88 | - | - | Pass | |
| | ケーブル保持力(N) | | 19.6N MIN. | 5 | - | 54.468 | 56.94 | 49.20 | - | - | Pass | | |
| | 50P | 挿入力(N) | 初期 | 38.0N MAX. | 5 | - | 34.050 | 36.46 | 32.34 | - | - | Pass | |
| | | | 30回挿抜後 | 38.0N MAX. | | | 20.870 | 22.15 | 19.60 | - | - | Pass | |
| | | 抜去力(N) | 初期 | 8.00N MIN. | 5 | - | 18.032 | 18.82 | 17.44 | - | - | Pass | |
| | | | 30回挿抜後 | 6.41N MIN. | | | 11.642 | 13.03 | 10.39 | - | - | Pass | |
| | ケーブル保持力(N) | | 24.5N MIN. | 5 | - | 98.440 | 102.2 | 95.5 | - | - | Pass | | |
| A Group 耐久性 ↓ ケーブル保持力 Au Type | 接触抵抗(mΩ) | | 初期 | AWG#42 700mΩMAX | 5 | 250 | R | 644.259 | 669.76 | 630.32 | 6.763 | 664.548 | Pass |
| | | | 30回挿抜後 | AWG#42 ΔR=40mΩMAX. | | | | 643.357 | 667.83 | 630.08 | 6.591 | 662.13 | Pass |
| | | | ΔR | -0.903 | | | | 1.75 | -7.09 | 1.709 | 4.224 | Pass | |
| | GND抵抗(mΩ) | | 初期 | 50mΩMAX. | 5 | - | R | 15.902 | 17.16 | 14.17 | - | - | Pass |
| | | | 30回挿抜後 | ΔR=40mΩMAX. | | | | 16.786 | 18.82 | 14.89 | - | - | Pass |
| | | | ΔR | 0.884 | | | | 1.72 | -1.04 | - | - | Pass | |
| | 35P | 挿入力(N) | 初期 | 40.8N MAX. | 5 | - | 31.460 | 31.95 | 30.77 | - | - | Pass | |
| | | | 30回挿抜後 | 34.0N MAX. | | | 18.760 | 19.70 | 18.23 | - | - | Pass | |
| | | 抜去力(N) | 初期 | 5.26N MIN. | 5 | - | 16.405 | 17.15 | 15.19 | - | - | Pass | |
| | | | 30回挿抜後 | 3.07N MIN. | | | 12.466 | 13.72 | 11.27 | - | - | Pass | |
| | ケーブル保持力(N) | | 17.15N MIN. | 5 | - | 59.240 | 65.70 | 53.60 | - | - | Pass | | |
| | 40P | 挿入力(N) | 初期 | 42.0N MAX. | 5 | - | 31.630 | 33.71 | 29.01 | - | - | Pass | |
| 30回挿抜後 | | | 35.0N MAX. | 18.420 | | | 20.19 | 17.05 | - | - | Pass | | |
| 抜去力(N) | | 初期 | 6.0N MIN. | 5 | - | 19.800 | 22.05 | 16.46 | - | - | Pass | | |
| | | 30回挿抜後 | 3.5N MIN. | | | 11.450 | 12.84 | 10.58 | - | - | Pass | | |
| ケーブル保持力(N) | | 19.6N MIN. | 5 | - | 54.468 | 56.94 | 49.20 | - | - | Pass | | | |
| B Group 端子保持力 | PLUG端子保持力(N) | | 0.6N以上 | - | 20 | 1.8Nの力を加えても、端子の抜け無し | | | | | Pass | | |
| | RECE.端子保持力(N) | | 0.2N以上 | - | 20 | 1.019 | 1.27 | 0.78 | 0.121 | 0.656 | Pass | | |

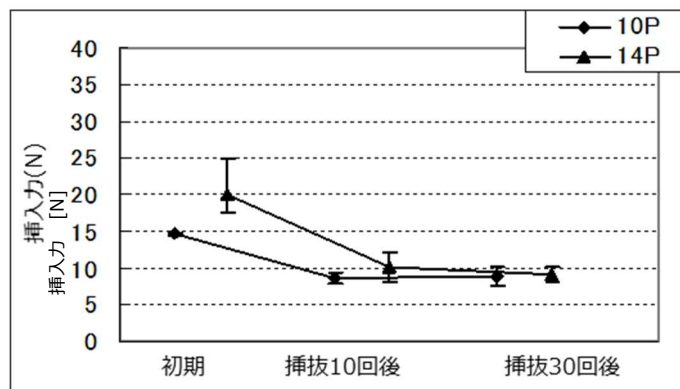
表 2-3. 試験結果

| 試験項目 | 測定内容 | | 規格 | Set | N | データ | | | | | 判定 | |
|------------------------------|--------------|-------------------------------|-----------------------|--------|------|--------------|---------|--------|--------|--------|---------|------|
| | | | | | | AVE. | MAX. | MIN. | s | X±3s | | |
| C Group 耐振動性 ↓ 耐衝撃性 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX. | 5 | 250 | | 619.130 | 639.97 | 589.92 | 13.022 | 658.196 | Pass |
| | | 振動後 | AWG#42 ΔR=40mΩMAX. | | | R | 619.499 | 639.85 | 589.89 | 13.032 | 658.595 | Pass |
| | | | | | | ΔR | 0.369 | 3.35 | -3.01 | 0.831 | 3.862 | |
| | | 衝撃後 | AWG#42 ΔR=40mΩMAX. | | | R | 618.706 | 639.21 | 588.80 | 13.007 | 657.727 | Pass |
| | ΔR | | | -0.424 | 2.69 | -3.10 | 0.778 | 1.910 | | | | |
| | Ground抵抗(mΩ) | 初期 | AWG#42 50mΩMAX. | 5 | - | | 16.533 | 17.98 | 15.75 | 0.887 | 19.194 | Pass |
| | | 振動後 | ΔR=40mΩMAX. | | | R | 17.278 | 18.25 | 16.40 | 0.761 | 19.561 | Pass |
| | | | | | | ΔR | 0.744 | 2.04 | -0.30 | 0.872 | 3.36 | |
| | | 衝撃後 | ΔR=40mΩMAX. | | | R | 17.451 | 18.54 | 16.73 | 0.74 | 19.671 | Pass |
| | ΔR | | | 0.918 | 1.61 | 0.10 | 0.603 | 2.727 | | | | |
| 電氣的瞬断 | 振動試験中 | 1μsec. MAX. | 5 | - | 瞬断無し | | | | | Pass | | |
| | 衝撃試験中 | | | | 瞬断無し | | | | | Pass | | |
| 外観 | 振動後 | 機能を損なう 異常無き事 | 5 | - | 瞬断無し | | | | | Pass | | |
| | 衝撃後 | | | | 瞬断無し | | | | | Pass | | |
| D Group 熱衝撃 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX. | 5 | 250 | | 619.564 | 638.29 | 592.72 | 12.040 | 655.684 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩMAX. | | | R | 618.777 | 637.35 | 589.99 | 12.125 | 655.152 | Pass |
| | | | | | | ΔR | -0.787 | 3.83 | -3.92 | 1.586 | 3.971 | |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 16.657 | 17.16 | 16.07 | 0.417 | 17.91 | Pass |
| 試験後 | | ΔR=40mΩMAX. | R | | | 21.285 | 22.73 | 20.06 | 1.156 | 24.753 | Pass | |
| | | | ΔR | | | 4.626 | 5.90 | 3.72 | 0.848 | 7.17 | | |
| E Group 高温寿命 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX. | 5 | 250 | | 619.542 | 639.01 | 586.76 | 11.469 | 653.939 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩMAX. | | | R | 618.847 | 638.47 | 587.56 | 11.343 | 652.876 | Pass |
| | | | | | | ΔR | -0.683 | 2.94 | -3.47 | 1.268 | 3.121 | |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 20.436 | 20.86 | 20.04 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | R | 24.683 | 25.53 | 23.44 | — | — | Pass |
| | | | | | | ΔR | 4.247 | 5.12 | 2.58 | — | — | |
| F Group 湿度(定常) | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX. | 5 | 250 | | 620.149 | 641.68 | 584.67 | 14.365 | 663.244 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩ | | | R | 618.914 | 639.15 | 582.73 | 14.383 | 662.063 | Pass |
| | | | | | | ΔR | -1.235 | 3.22 | -2.91 | 1.168 | 2.269 | |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 17.102 | 17.69 | 16.42 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | R | 17.872 | 19.61 | 17.33 | — | — | Pass |
| | | | | | | ΔR | 0.770 | 3.19 | -0.29 | — | — | |
| | 絶縁抵抗(MΩ) | 初期 | 1,000MΩMIN. | 5 | 100 | 30,000MΩMIN. | | | | | Pass | |
| 試験後 | | 500MΩMIN. | 5,000MΩMIN. | | | | | | | | | |
| 耐電圧 | 初期 | 沿面放電、空中放電、 絶縁破壊等の 異常無き事 | 5 | 100 | 異常なし | | | | | Pass | | |
| | 試験後 | | | | 異常なし | | | | | | | |

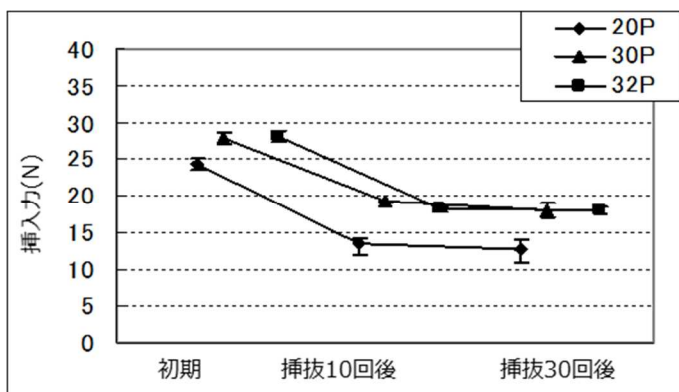
表 2-4. 試験結果

| 試験項目 | 測定内容 | | 規格 | Set | N | データ | | | | | 判定 | |
|---------------------|--------------|--------|-------------------------------|-----|-----|--------------|---------|--------|--------|--------|---------|------|
| | | | | | | AVE. | MAX. | MIN. | s | X±3s | | |
| G Group 湿度(サイクル) | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX | 5 | 250 | | 619.861 | 641.46 | 585.25 | 13.736 | 661.069 | Pass |
| | | 挿抜10回後 | AWG#42 ΔR=40mΩMAX | | | R | 619.021 | 642.42 | 585.10 | 13.769 | 660.322 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩ | | | ΔR | -0.840 | 1.88 | -2.95 | 1.1.03 | 2.469 | |
| | | | | | | R | 617.986 | 639.28 | 583.48 | 13.680 | 659.026 | Pass |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 17.066 | 18.93 | 15.60 | — | — | Pass |
| | | 挿抜10回後 | AWG#42 ΔR=40mΩMAX | | | R | 17.112 | 17.76 | 16.13 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | ΔR | 0.046 | 0.81 | -1.52 | — | — | Pass |
| | | | | | | R | 21.384 | 23.90 | 19.34 | — | — | Pass |
| | 絶縁抵抗(MΩ) | 初期 | 1,000MΩMIN. | 5 | 100 | 50,000MΩMIN. | | | | | Pass | |
| | | 試験後 | 500MΩMIN. | | | 3,000MΩMIN. | | | | | | |
| | 耐電圧 | 初期 | 沿面放電、空中放電、 絶縁破壊等の 異常無き事 | 5 | 100 | 異常なし | | | | | Pass | |
| | | 試験後 | | | | 異常なし | | | | | | |
| H Group 塩水噴霧 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX | 5 | 250 | | 618.606 | 641.20 | 584.58 | 13.003 | 657.615 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩMAX. | | | R | 619.723 | 645.17 | 586.25 | 13.643 | 663.613 | Pass |
| | | | | | | ΔR | 1.843 | 6.44 | -2.54 | 2.174 | 3.322 | Pass |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 19.620 | 20.90 | 17.59 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | R | 26.101 | 29.10 | 23.97 | — | — | Pass |
| | | | | | | ΔR | 6.481 | 8.21 | 4.86 | — | — | Pass |
| J Group ガス(H2S) | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX | 5 | 250 | | 620.341 | 635.30 | 587.14 | 11.783 | 655.690 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩMAX. | | | R | 619.680 | 634.70 | 586.62 | 12.032 | 655.776 | Pass |
| | | | | | | ΔR | -0.660 | 3.47 | -3.69 | 1.351 | 3.593 | Pass |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 17.820 | 18.56 | 17.04 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | R | 21.887 | 23.28 | 20.16 | — | — | Pass |
| | | | | | | ΔR | 4.067 | 5.19 | 2.30 | — | — | Pass |
| K Group 低温寿命 | 接触抵抗(mΩ) | 初期 | AWG#42 700mΩMAX | 5 | 250 | | 642.659 | 661.25 | 630.85 | 7.595 | 665.444 | Pass |
| | | 試験後 | AWG#42 ΔR=40mΩMAX. | | | R | 624.594 | 661.79 | 630.33 | 7.302 | 664.500 | Pass |
| | | | | | | ΔR | -0.064 | 3.48 | -2.25 | 1.314 | 3.878 | Pass |
| | Ground抵抗(mΩ) | 初期 | 50mΩMAX. | 5 | - | | 14.981 | 15.71 | 13.86 | — | — | Pass |
| | | 試験後 | ΔR=40mΩMAX. | | | R | 16.403 | 17.27 | 14.84 | — | — | Pass |
| | | | | | | ΔR | 1.422 | 1.74 | 0.97 | — | — | Pass |
| L Group 半田付け性 | 外観 | | 95%以上滞れること | 10 | - | 95%以上滞れる | | | | | OK | |
| M Group 半田耐熱性 | リフロー | 外観 | 機能を損なう 変形及び欠陥の 無き事 | 10 | - | 異常なし | | | | | OK | |
| | 手半田 | | | | | | | | | | | |
| N Group 温度上昇 | AWG #42 | | ΔT=30℃ MAX. | 5 | - | ΔT=23.0℃ | | | | | OK | |
| | AWG #40 | | | | | ΔT=28.5℃ | | | | | | |
| | AWG #36 | | | | | ΔT=28.9℃ | | | | | | |
| | AWG #34 | | | | | ΔT=29.5℃ | | | | | | |

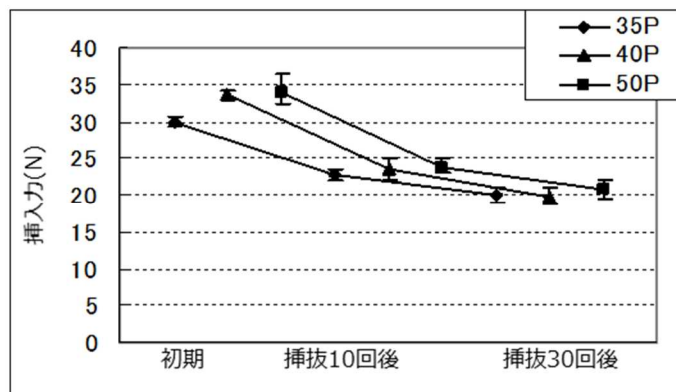
Sn Type



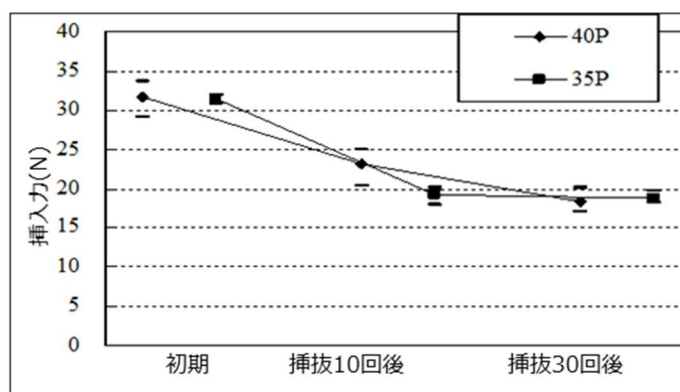
Sn Type



Sn Type

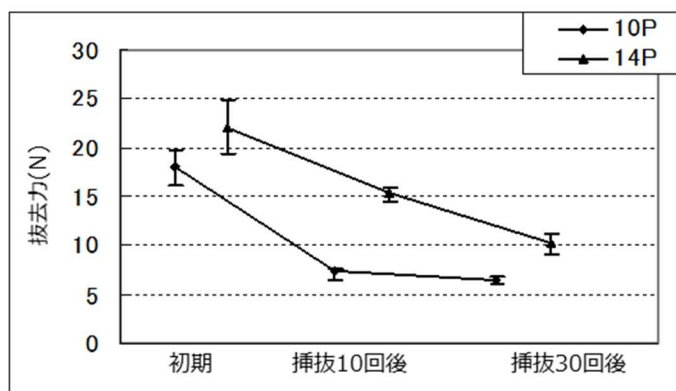


Au Type

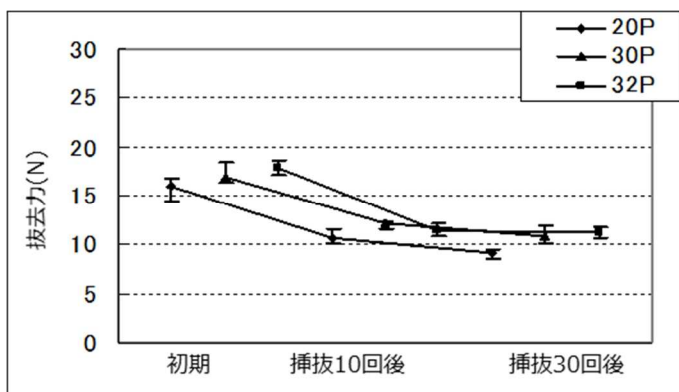


Graph1. 挿入力の変化 (A Group : 耐久性)

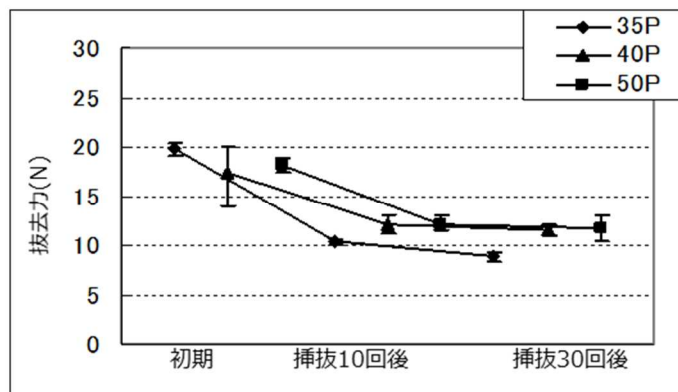
Sn Type



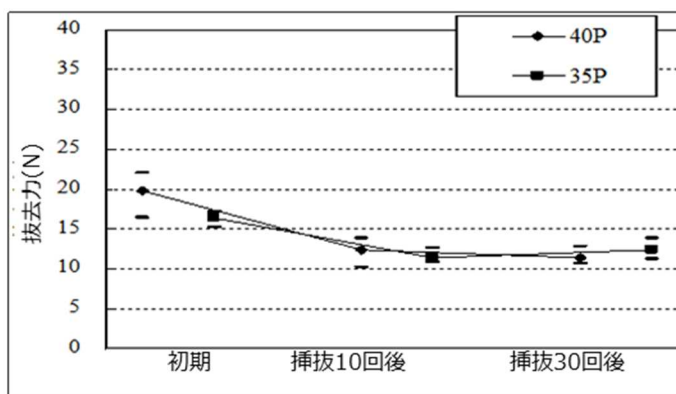
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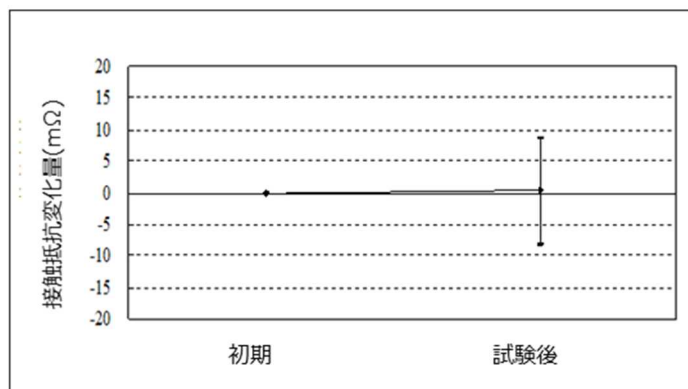
Sn type



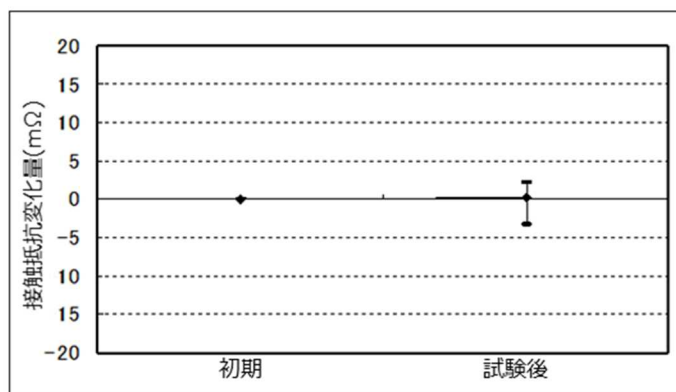
Au Type



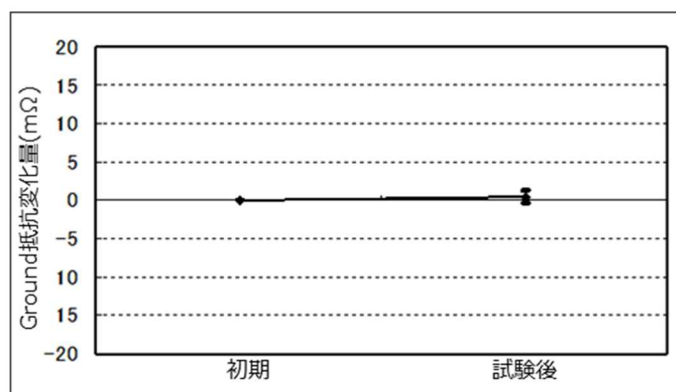
Graph 2. 抜去力の変化 (A Group : 耐久性)



Graph3. 接触抵抗値の変化 AWG # 34 (A Group : 耐久性)



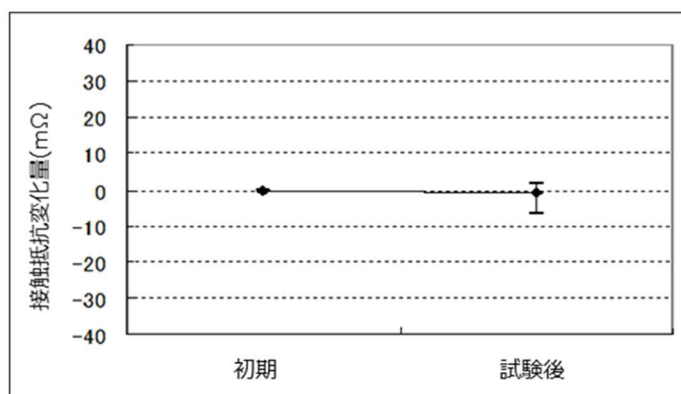
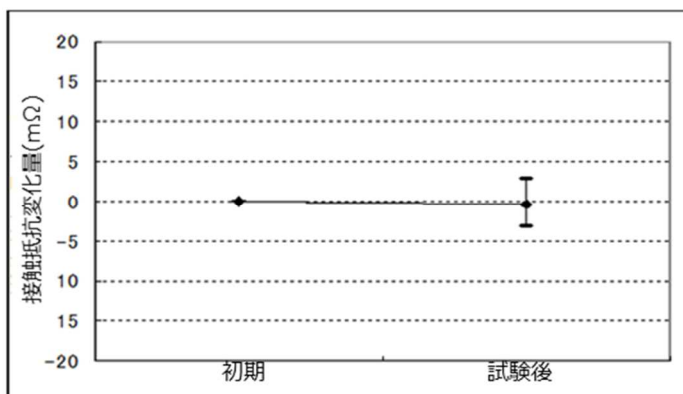
Graph4. 接触抵抗値の変化 AWG # 36 (A Group : 耐久性)



Graph5. Ground 抵抗値の変化 AWG # 36 (A Group : 耐久性)

Sn Type

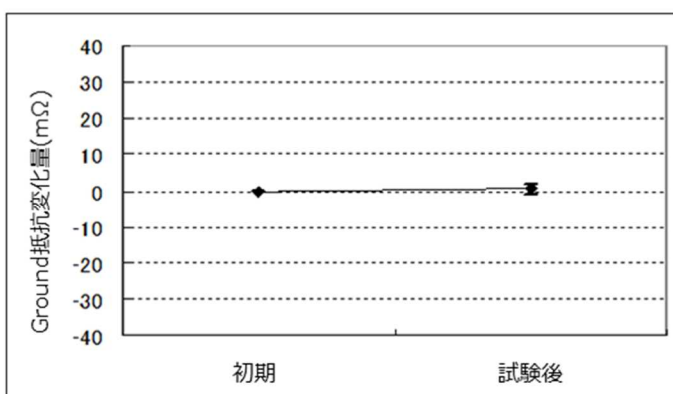
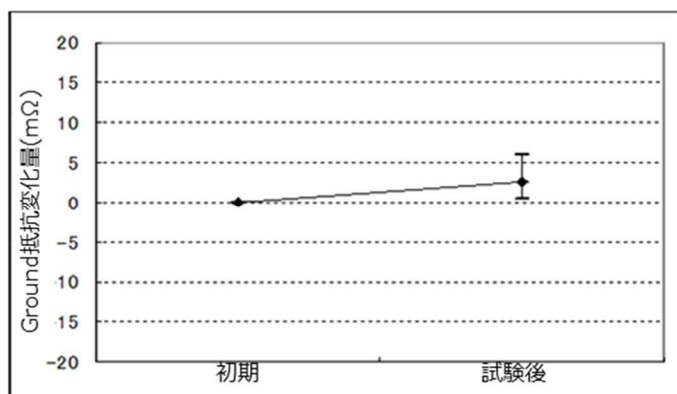
Au Type



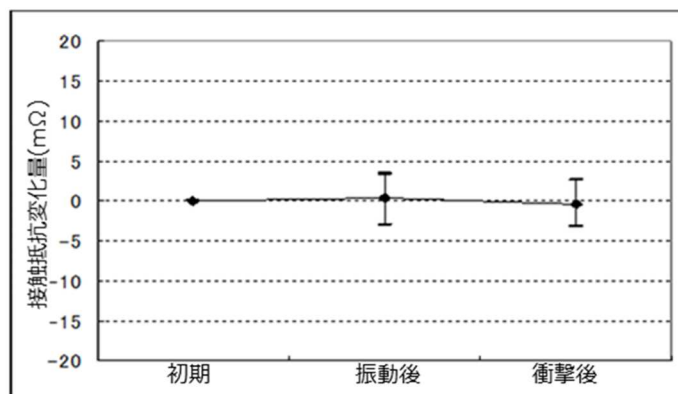
Graph6. 接触抵抗値の変化 AWG #42 (A Group : 耐久性)

Sn Type

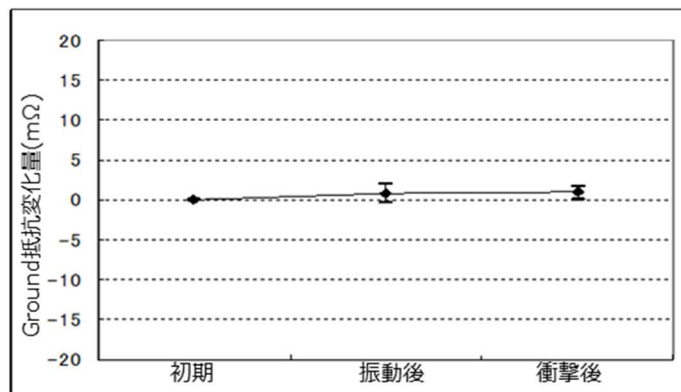
Au Type



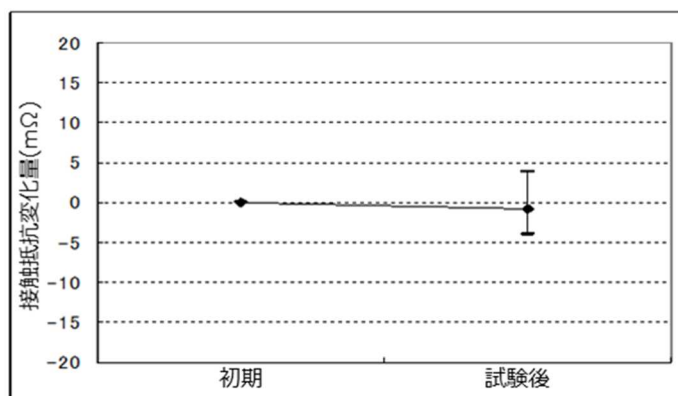
Graph 7. Ground 抵抗値の変化 AWG #42 (A Group : 耐久性)



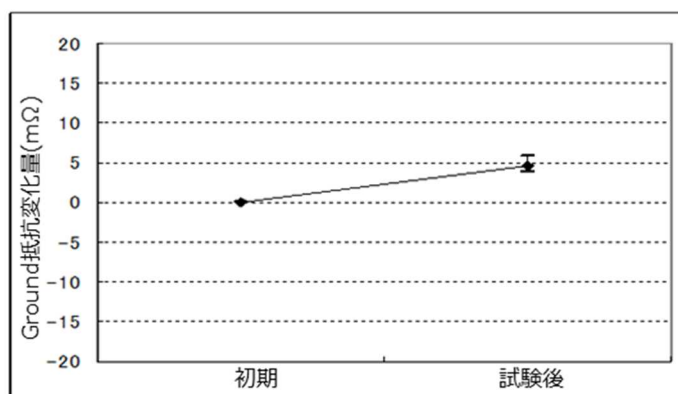
Graph8. 接触抵抗値の変化 (C Group : 耐振動性・耐衝撃性)



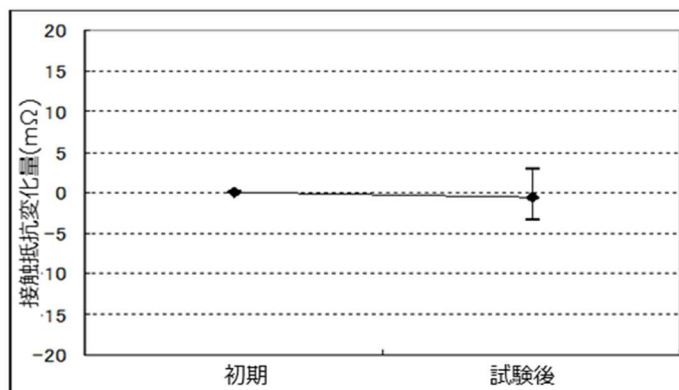
Graph9. Ground 抵抗値の変化 (C Group : 耐振動性・耐衝撃性)



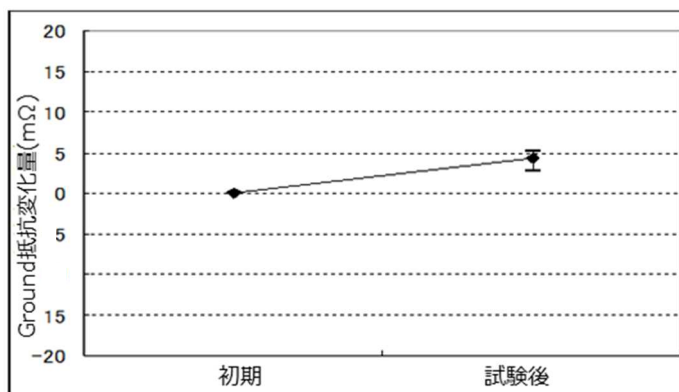
Graph10. 接触抵抗値の変化 (D Group : 熱衝撃)



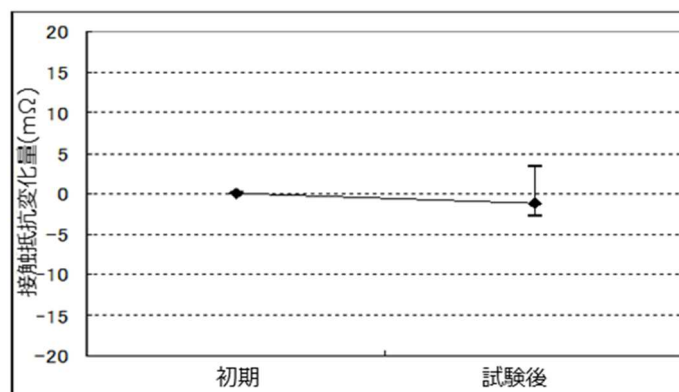
Graph11. Ground 抵抗値の変化 (D Group : 熱衝撃)



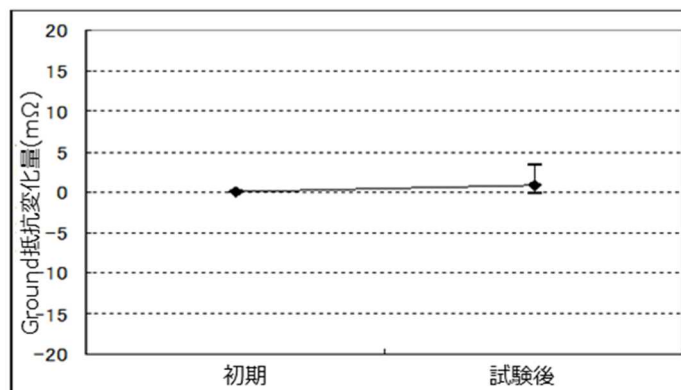
Graph12. 接触抵抗値の変化 (E Group : 高温寿命)



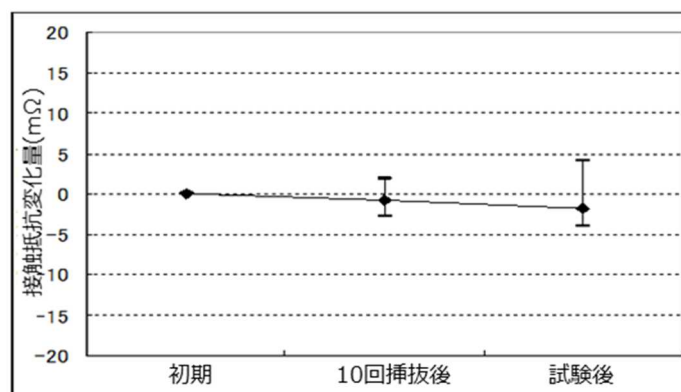
Graph13. Ground 抵抗値の変化 (E Group : 高温寿命)



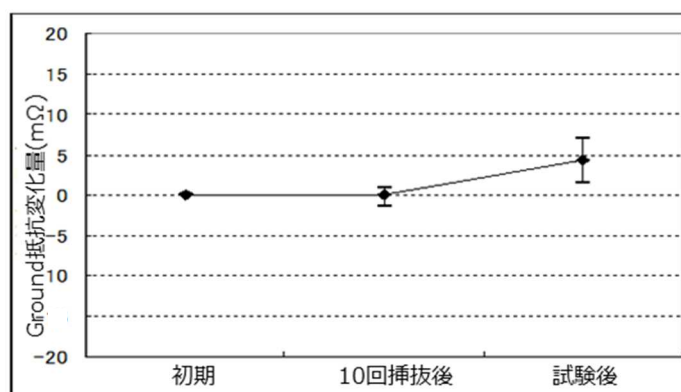
Graph14. 接触抵抗値の変化 (F Group : 湿度(定常状態))



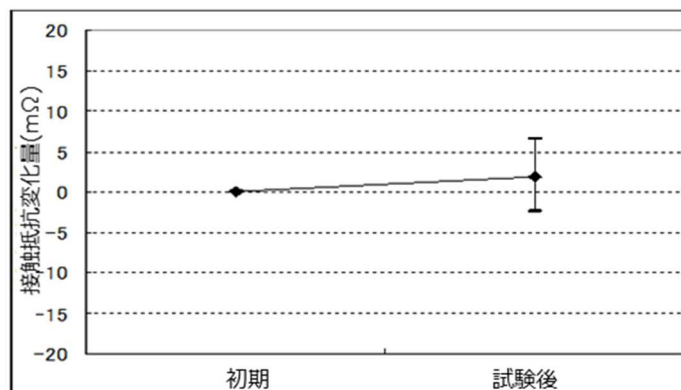
Graph15. Ground 抵抗値の変化 (F Group : 湿度(定常状態))



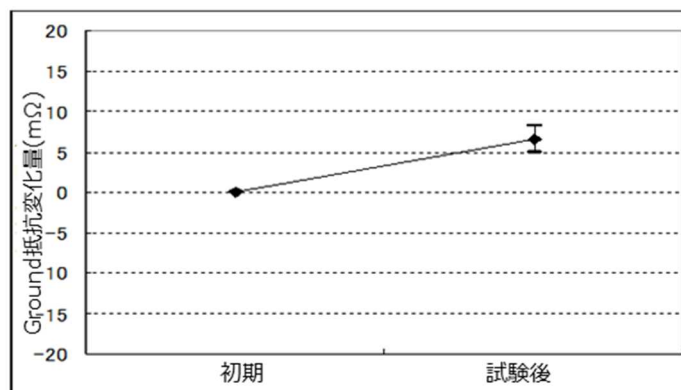
Graph 16. 接触抵抗値の変化 (G Group : 湿度(サイクリング))



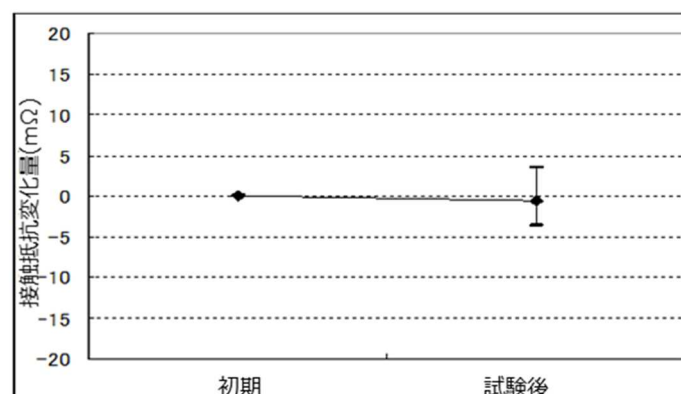
Graph17. Ground 抵抗値の変化 (G Group : サイクリング)



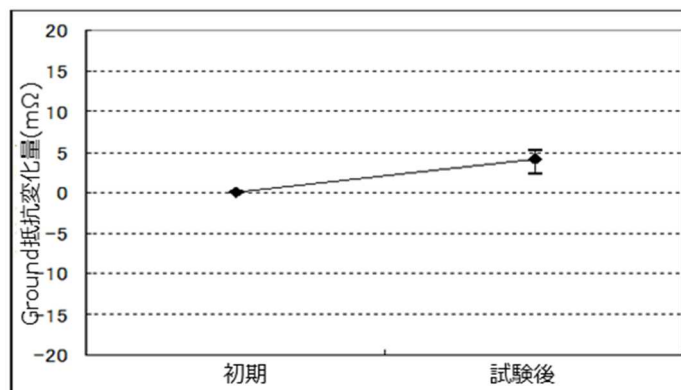
Graph18. 接触抵抗値の変化 (H Group : 塩水噴霧)



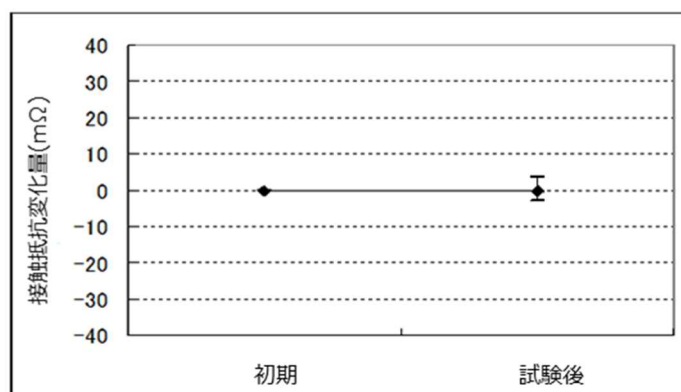
Graph19. Ground 抵抗値の変化 (H Group : 塩水噴霧)



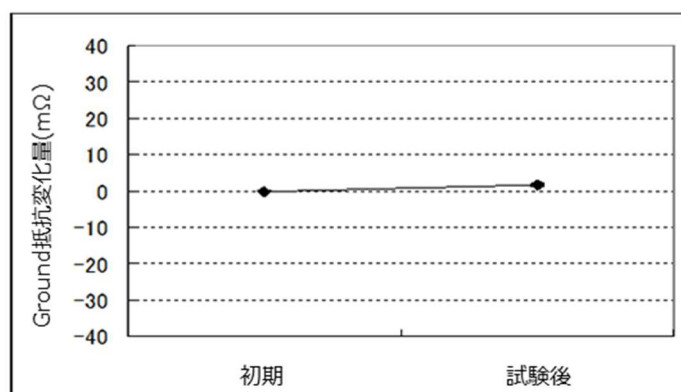
Graph20. 接触抵抗値の変化 (J Group : ガス(H₂S))



Graph21. Ground 抵抗値の変化 (J Group : ガス(H₂S))



Graph22. 接触抵抗値の変化 (K Group : 低温寿命)



Graph23. Ground 抵抗値の変化 (K Group : 低温寿命)