

Micro-Fit (3.0) Connector Systems Single and Dual Row – Wire to Board and Wire to Wire

1.0 SCOPE

This Test Summary covers the Micro-Fit 3.00 mm (.118 inch) centerline (pitch) connector series terminated with 18-30 AWG wire using crimp technology manufactured in multiple locations.

2.0 PRODUCT DESCRIPTION

2.1 PRODUCT NAME, SERIES, AND PART NUMBER(S)

Micro-Fit (3.0) Receptacle Series: 43645, 43025 Micro-Fit (3.0) Plug Series: 43640, 43020 Micro-Fit (3.0) Header Series: 43650, 43045, 44067 Micro-Fit (3.0) Female Crimp Terminal Series: 43030 Micro-Fit (3.0) Male Crimp Terminal Series: 43031

2.1.1 CRIMP TERMINAL, HOUSING, AND MATING HEADER SERIES USED FOR TESTING:

Micro-Fit (3.0) Recept: 43645-0200, 43025-0400, 43025-0600, 43025-0800, 43025-1000 Micro-Fit (3.0) Plug: 43020-0601, 43020-1800, 43020-2400

Micro-Fit (3.0) Header: 43045-0424, 43045-0612, 43045-0613, 43045-0618, 43045-0711, 43045-1012

Micro-Fit (3.0) Female Crimp Terminal: 43030-0001, 43030-0002, 43030-0006 Micro-Fit (3.0) Male Crimp Terminal: 43031-0001, 43031-0002, 43031-0003, 43031-0006

2.2 DIMENSIONS, MATERIALS, PLATINGS AND MARKINGS

Refer to the appropriate sales drawings for information on dimensions, materials, plating, and markings.

2.3 PRODUCT SPECIFICATION TITLE AND DOCUMENT NUMBER

Product Specification: Micro-Fit (3.0) Single Row Product Specification: Micro-Fit (3.0) Dual Row Document Number: PS-43650 Document Number: PS-43045

3.0 TEST OBJECTIVE

This side-by-side screen testing was conducted to demonstrate the equivalent performance of product manufactured in the Molex Lincoln (designated as Existing) and Molex Shanghai (designated as New) facilities.

4.0 CONCLUSION

All completed testing demonstrates the performance of the same product manufactured in either location is equivalent.

| REVISION: | ECR/ECN INFORMATION: | TITLE: TI | EST SUMMARY | | SHEET No. | | |
|---|----------------------|-----------------------|--------------------------|--------|----------------------|--|--|
| С | <u>EC No:</u> 618434 | MICRO-FIT (| 3.0) CONNECTOR | SERIES | 1 of 8 | | |
| | DATE: 2019/06/12 | MULTIPL | MULTIPLE PLANT LOCATIONS | | | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPRO\ | /ED BY: | | |
| 430450005-TS | | AFAVAZZA | SSOUSEK FSM | | ІТН | | |
| TEMPLATE FILENAME: TEST. SUMMARYISIZE AI(V.1).DOC | | | | | | | |



5.0 TESTING PROCEDURES

5.1 TERMINAL RETENTION FORCE IN HOUSING

<u>Microfit 43030 and 43031 terminals</u> were crimped to 20 awg wires and inserted into receptacle and plug housings, respectively. An axial pullout force was applied to each terminal by pulling on the wire at a rate of 1.0 inch per minute. The maximum force to dislodge each terminal from the housing was recorded. <u>Microfit 43045 headers</u> had an axial pushout force applied to each pin in the opposite direction of insertion at a rate of 1.0 inch per minute. The maximum force to dislodge each pin from the housing was recorded. (Reference EIA-364-29)

5.2 WIRE PULLOUT FORCE (WIRE FROM TERMINAL)

Microfit 43030 and 43031 terminals were crimped to 20 awg, 24 awg, 26 awg, and 28 awg wires. Terminals were clamped in a vise and the wire was forcibly removed from the crimp by applying an axial force on the wire at a rate of 1.0 inch per minute. The maximum force to remove the wire from the terminal was recorded. Samples were tested both with and without insulation crimp influence.

5.3 MATE AND UNMATE FORCE

Wire connectors were fully populated with female or male crimp terminals and PCB connectors were fully populated with header terminals. An axial force was applied in the mating and unmating direction at a rate of 1.0 inch per minute. The maximum force to mate and unmate the connectors was recorded for the first, fifth, and tenth mating cycle. This testing was conducted with the thumb latch disabled. (Reference EIA-364-13E)

5.4 THUMB LATCH TO RAMP YIELD STRENGTH

This testing was conducted without terminals inserted in the housing. Receptacles were mated to header housings. Header housings were secured to the base table and the receptacle housings were secured within a grip fixture attached to the load cell of a motorized force testing device. The crosshead of the device was then moved in the direction of unmating at a rate of 1.0 inch per minute until the latching geometry of either the receptacle or the header housing yielded. The maximum force to yield the latch was recorded.

5.5 PANEL MOUNT RETENTION

Panel mount plugs were inserted into a .055 and .100 inch thick panel. The panel was supported elevated above the base table and an axial load was applied to the plug in the opposite direction of insertion with the crosshead moving at a rate of 1.0 inch per minute until the plug released from the panel or a 50 lb force was achieved. The maximum force to yield the panel latches was recorded.

5.6 TEMPERATURE PROFILE

Samples were fully populated, electrically wired in series, and connected to a power supply. Thermocouples were attached to record temperature of the terminals. Ambient temperature was also recorded. An initial test current was applied to the specimens and they were allowed to thermally stabilize. Test current was then incremented to the next level. The current was increased successively in 0.5 amp steps after attaining thermal stability. Testing was terminated

| REVISION: | ECR/ECN INFORMATION: | TITLE: T | EST SUMMARY | | SHEET No. | |
|--|-------------------------|-----------------------|----------------|--------|----------------------|--|
| C | <u>EC No:</u> 618434 | MICRO-FIT (| 3.0) CONNECTOR | SERIES | 2 of 8 | |
| C | <u>DATE:</u> 2019/06/12 | MULTIPL | E PLANT LOCAT | IONS | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROV | /ED BY: | |
| 430450005-TS | | AFAVAZZA | SSOUSEK FSMI | | ІТН | |
| TEMPLATE FILENAME. TEST. SUMMARY ISIZE AI(V.1) DOC | | | | | | |



at 0.5 amps above rated current. Temperature rise is calculated as the temperature of the terminal less ambient temperature at the specified current. (Reference EIA-364-70)

5.7 TEMPERATURE RISE - 18 DAY STABILITY

Samples were powered with the rated current for 4 days steady, 10 days cycled (15 minutes off, 45 minutes on), and 4 days steady. Temperature rise was recorded at 10-minute intervals throughout testing. Samples which did not have current applied were used as ambient reference.

6.0 PERFORMANCE RESULTS

6.1 TERMINAL RETENTION FORCE

6.1.1 Crimp Terminal in Housing: All values in Newtons. Specification: 24.5 N MINIMUM

| Housing | Existing / New | Terminal | Existing / New | mean | min | max |
|---------|-------------------|-----------|-------------------|-------|-------|-------|
| | | 42020 Sm | Existing | 38.70 | 25.76 | 45.55 |
| 43025 | Evicting | 43030 511 | New | 36.39 | 32.74 | 38.30 |
| | Existing | 42020 Au | Existing | 41.99 | 39.76 | 44.23 |
| | | 45050 Au | New | 38.79 | 32.21 | 39.59 |
| | New | 12020 Au | Existing | 46.88 | 41.10 | 51.78 |
| | | 45050 Au | New | 37.90 | 35.02 | 43.48 |
| | | 12021 Sp | Existing | 38.80 | 35.88 | 42.32 |
| | Evicting | 45051 511 | New | 39.58 | 33.06 | 69.38 |
| 43020 | Existing | 42021 Au | Existing | 65.70 | 55.98 | 72.83 |
| | | 45051 Au | New | 46.64 | 36.13 | 84.57 |
| | New | 43031 Au | Existing | 50.84 | 49.06 | 52.18 |

6.1.2 Pin in Header: All values in Newtons. Specification: 13.7 N MINIMUM

| | Header | Existing / New | mean | min | тах | | | |
|-----------|----------------------|-------------------|-----------|----------|----------|-----------------|------------------|----------------------|
| | 43045-0612 | Existing | 42.70 | 39.32 | 47.30 | | | |
| | TH, Reflow Sn | New | 45.85 | 38.64 | 58.16 | | | |
| | 43045-0711 | Existing | 51.70 | 43.13 | 60.21 | | | |
| | TH, Matte Sn | New | 56.09 | 47.12 | 67.70 | | | |
| | 43045-0613 | Existing | 41.30 | 37.48 | 46.10 | | | |
| | TH, Au | New | 38.31 | 24.65 | 47.95 | | | |
| | 43045-0618 | Existing | 53.69 | 48.13 | 58.45 | | | |
| | SMT, Reflow Sn | New | 45.06 | 39.28 | 51.15 | | | |
| | 43045-0424 | Existing | 25.62 | 20.55 | 41.19 | | | |
| | TH, Reflow Sn | New | 38.34 | 33.63 | 42.75 | | | |
| REVISION: | ECR/ECN INFORMAT | ON: TITLE: | | TI | EST SUI | MMARY | | SHEET No. |
| C | <u>EC No:</u> 618434 | | MICR | O-FIT (| 3.0) COI | NNECTOR | SERIES | 3 of 8 |
| U | DATE: 2019/06/12 | | Μ | ULTIPL | E PLAN | | IONS | |
| DOCUMEN | NUMBER: | <u>CRE</u> | TED / REV | ISED BY: | CHE | CKED BY: | <u>APPROV</u> | ED BY: |
| 43 | 0450005-TS | | AFAVAZZ | ZA | SSC | DUSEK | FSM | ITH |
| | | | | | | TEMPLATE FILENA | ME: TEST_SUMMARY | [SIZE_A](V.1).DOC |

6.2 WIRE PULLOUT FORCE (WIRE FROM TERMINAL) All values in lbf. Specification as indicated.

| Terminal | AWG | With or Without Insulation Crimp | Existing / New | mean | min | max | Specification | |
|-----------|-----|-------------------------------------|-------------------|-------|--------|-------|---------------|--|
| | | | Existing ** | 26.81 | 23.93 | 32.29 | openjinanim | |
| | 20 | With | New ** | 30.69 | 28.77 | 31.88 | 13.0 | |
| 43030 Sn | | | Existing ** | 12.87 | 12.46 | 13.58 | | |
| | 24 | With | New ** | 12.94 | 11.04 | 14.19 | 5.0 | |
| | | \\/:+b | Existing ** | 30.39 | 29.84 | 30.78 | | |
| | 20 | vvitn | New ** | 30.77 | 30.35 | 31.48 | 10.0 | |
| | 20 | \\/ithout | Existing ** | 25.88 | 23.63 | 28.33 | 13.0 | |
| | | without | New ** | 26.89 | 25.85 | 28.48 | | |
| 42020 411 | 24 | \\/i+b | Existing * | 12.27 | 11.20 | 12.81 | 5.0 | |
| 45050 Au | 24 | VVILII | New * | 12.94 | 11.83 | 13.52 | 5.0 | |
| | 26 | \\/i+b | Existing * | 9.80 | 9.37 | 10.40 | 2.0 | |
| | 20 | VVILII | New ** | 7.93 | 3.49 * | 10.36 | 5.0 | |
| | 20 | \\/i+b | Existing * | 7.87 | 6.84 | 8.17 | 2.0 | |
| | 20 | vvicii | New ** | 8.34 | 8.00 | 8.65 | 2.0 | |
| 42021 Sp | 20 | Without | Existing * | 28.69 | 23.16 | 29.63 | 12.0 | |
| 43031 311 | 20 | Without | New * | 29.27 | 26.73 | 30.21 | 15.0 | |
| | | \\/ith | Existing * | 30.14 | 28.56 | 31.57 | | |
| | 20 | VVICII | New * | 31.58 | 31.01 | 32.43 | 12.0 | |
| | 20 | Without | Existing * | 28.87 | 28.46 | 29.29 | 15.0 | |
| | | Without | New * | 29.18 | 27.54 | 30.57 | | |
| 43031 Au | 24 | With | Existing * | 12.14 | 11.40 | 12.87 | 5.0 | |
| 43031 Au | 24 | vvicii | New * | 12.17 | 11.50 | 12.71 | 5.0 | |
| | 26 | With | Existing * | 8.54 | 3.87 | 10.37 | 3.0 | |
| | 20 | vvicii | New * | 9.06 | 7.92 | 9.75 | 5.0 | |
| | 28 | With | Existing ** | 7.86 | 7.76 | 8.12 | 2.0 | |
| | 28 | VVILII | New ** | 7.91 | 7.72 | 8.06 | 2.0 | |

* Failure mode was broken conductor

** Failure mode was conductor pulled out or terminal broke

| REV/ISION: | ECR/ECN INFORMATION | | | | SHEET No | |
|--|-------------------------|-----------------------|----------------|--------------|----------------------|--|
| | | | ESI SUMMART | | | |
| • | <u>EC No:</u> 618434 | MICRO-FIT (| 3.0) CONNECTOR | SERIES | 4 of 8 | |
| C | <u>DATE:</u> 2019/06/12 | MULTIPL | E PLANT LOCAT | ONS | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: | | |
| 430450005-TS | | AFAVAZZA | SSOUSEK FSMIT | | ітн | |
| TEMPLATE FILENAME: TEST_SUMMARY[SIZE_A](V.1).DOC | | | | | | |

6.3 MATE AND UNMATE FORCE

molex

Mate Force: All values in Newtons. Specification: 8.0 N MAX per circuit (1st cycle only; cycles 5 and 10 are for reference only)

| | | | | | Connector Mate Force | | Mate Force Per Circuit | | | | |
|----------|-------------------|-----------------------------|-------------------|-------|----------------------|-------|------------------------|-------|------|------|------|
| Terminal | Existing / New | Mating Part | Existing / New | Cycle | mean | min | max | mean | min | max | |
| | Existing | 43045 | | 1 | 43.06 | 40.39 | 45 68 | A 31 | 4.05 | 4 58 | |
| | New | 10 circuit Reflow Sn | Existing | 1 | 37 32 | 35 72 | 38.92 | 3 74 | 3 56 | 3 91 | |
| | | 43045 | | 1 | 22.62 | 21.21 | 23.83 | 3.77 | 3.54 | 3.97 | |
| | Existing | 6 circuit | Existing | 5 | 28.03 | 26.90 | 29.68 | 4.67 | 4.48 | 4.95 | |
| | | Reflow Sn | 8 | 10 | 36.60 | 32.88 | 41.10 | 6.10 | 5.48 | 6.85 | |
| 43030 Sn | | 43045 | | 1 | 21.14 | 18.57 | 25.96 | 3.52 | 3.10 | 4.33 | |
| | New | 6 circuit | New | 5 | 27.95 | 24.47 | 31.64 | 4.66 | 4.08 | 5.27 | |
| | | Reflow Sn | | 10 | 30.82 | 27.46 | 34.11 | 5.14 | 4.58 | 5.69 | |
| | | 43045 | | 1 | 25.00 | 24.02 | 26.16 | 4.17 | 4.00 | 4.36 | |
| | Existing | 6 circuit | Existing | 5 | 32.42 | 31.22 | 33.01 | 5.40 | 5.20 | 5.50 | |
| | - | Matte Sn | • | 10 | 39.50 | 38.02 | 42.09 | 6.58 | 6.34 | 7.02 | |
| | | 43045 | | 1 | 23.53 | 21.86 | 25.99 | 3.92 | 3.64 | 4.33 | |
| | New | 6 circuit | New | 5 | 33.51 | 31.93 | 36.33 | 5.59 | 5.32 | 6.06 | |
| | | Matte Sn | | 10 | 35.70 | 32.49 | 37.47 | 5.95 | 5.42 | 6.25 | |
| 43030 Au | | | | 1 | 20.42 | 19.76 | 21.75 | 3.40 | 3.29 | 3.63 | |
| | Existing | 43045 | Existing | 5 | 18.50 | 17.80 | 19.09 | 3.08 | 2.97 | 3.18 | |
| | U | 6 circuit Au | 0 | 10 | 20.04 | 19.26 | 20.59 | 3.34 | 3.21 | 3.43 | |
| | | 10015 | | 1 | 28.96 | 27.99 | 29.75 | 4.83 | 4.67 | 4.96 | |
| | New | 43045 | New | 5 | 25.31 | 23.60 | 27.28 | 4.22 | 3.93 | 4.55 | |
| | | 6 circuit Au | 6 circuit Au | | 10 | 27.99 | 26.30 | 30.25 | 4.67 | 4.38 | 5.04 |
| | | 43025 6 circuit Existing | 1 | 29.07 | 25.71 | 31.17 | 4.84 | 4.29 | 5.20 | | |
| | Existing | | 5 | 16.10 | 14.23 | 17.59 | 2.68 | 2.37 | 2.93 | | |
| 42024 6- | | (43030 Sn) | | 10 | 17.28 | 15.65 | 19.79 | 2.88 | 2.61 | 3.30 | |
| 43031 Sn | | 43025 | | 1 | 22.37 | 21.41 | 23.25 | 3.73 | 3.57 | 3.88 | |
| | New | 6 circuit | New | 5 | 22.85 | 21.30 | 24.88 | 3.81 | 3.55 | 4.15 | |
| | | (43030 Sn) | | 10 | 21.06 | 19.65 | 21.96 | 3.51 | 3.28 | 3.66 | |
| | Existing | 43025 | Existing | 1 | 26.47 | 25.89 | 26.91 | 4.40 | 4.31 | 4.49 | |
| | New | 6 circuit | Existing | 1 | 29.63 | 28.78 | 31.09 | 4.94 | 4.80 | 5.20 | |
| | Existing | (43030 Au) | New | 1 | 23.26 | 19.48 | 28.60 | 3.87 | 3.25 | 4.76 | |
| | | 43025 | | 1 | 25.74 | 23.14 | 28.86 | 4.29 | 3.86 | 4.81 | |
| 43031 Au | Existing | 6 circuit | Existing | 5 | 20.42 | 18.66 | 22.03 | 3.40 | 3.11 | 3.67 | |
| | | (43030 Au) | _ | 10 | 20.37 | 18.33 | 21.69 | 3.39 | 3.06 | 3.62 | |
| | | 43025 | | 1 | 23.07 | 22.18 | 23.92 | 3.85 | 3.70 | 3.99 | |
| | New | 6 circuit | New | 5 | 19.72 | 18.88 | 21.63 | 3.29 | 3.15 | 3.61 | |
| | | (43030 Au) | | 10 | 22.62 | 21.05 | 25.05 | 3.77 | 3.51 | 4.18 | |

| REVISION: | ECR/ECN INFORMATION: | TITLE: TI | EST SUMMARY | | SHEET No. |
|------------------|----------------------|-----------------------|----------------|--------|----------------------|
| C | <u>EC No:</u> 618434 | MICRO-FIT (| 3.0) CONNECTOR | SERIES | 5 of 8 |
| C | DATE: 2019/06/12 | MULTIPL | | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPRO\ | /ED BY: |
| 430450005-TS | | AFAVAZZA | SSOUSEK | FSM | ITH |

TEMPLATE FILENAME: TEST_SUMMARY[SIZE_A](V.1).DOC



Unmate Force: All values in Newtons. Specification: 2.4 N MIN per circuit (1st cycle only; cycles 5 and 10 for reference only)

| | | | | | Connecto | or Unmate | e Force | Unmate Force Per Circuit | | |
|-----------------|-----------|----------------------------------|-----------------|--------------|-------------------------|-------------------------|-------------------------|---|----------------------|----------------------|
| | Existina | Matina | Existina | | | | | | | |
| Terminal | / New | Part | / New | Cycle | mean | min | max | mean | min | max |
| | Existing | 43045 | | 1 | 24.40 | 20.07 | 24.42 | 2.46 | 2.00 | 2.42 |
| | Existing | 10 circuit | Existing | - | 31.49 | 28.87 | 34.12 | 3.16 | 2.89 | 3.43 |
| | New | Reflow Sn | | 1 | 31.76 | 31.40 | 32.07 | 3.20 | 3.16 | 3.20 |
| | | 43045 | | 1 | 20.12 | 18.54 | 21.69 | 3.53 | 3.09 | 3.62 |
| | Existing | 6 circuit | Existing | 5 | 26.82 | 25.29 | 29.88 | 4.47 | 4.22 | 4.98 |
| | | Reflow Sn | | 10 | 38.07 | 36.06 | 41.07 | 6.35 | 6.01 | 6.85 |
| | | 43045 | | 1 | 18.50 | 17.36 | 19.27 | 3.08 | 2.89 | 3.21 |
| 43030 Sn | New | 6 circuit | New | 5 | 28.98 | 27.85 | 30.25 | 4.83 | 4.64 | 5.04 |
| Existing | Reflow Sn | | 10 | 31.05 | 28.78 | 33.50 | 5.18 | 4.80 | 5.58 | |
| | | 43045 | | 1 | 21.43 | 19.95 | 23.42 | 3.57 | 3.33 | 3.90 |
| | Existing | 6 circuit | Existing | 5 | 24.47 | 23.05 | 25.50 | 4.08 | 3.84 | 4.25 |
| | 0 | Matte Sn | 0 | 10 | 40.74 | 38.27 | 43.71 | 6.79 | 6.38 | 7.29 |
| | | 43045 | | 1 | 24.03 | 22.93 | 26.21 | 4.01 | 3.82 | 4.37 |
| | New | 6 circuit | New | 5 | 26.09 | 24.55 | 28.61 | 4.35 | 4.09 | 4.77 |
| | | Matte Sn | | 10 | 34.57 | 32.43 | 36.98 | 5.76 | 5.41 | 6.16 |
| | | | | 1 | 16.84 | 16.35 | 17.47 | 2.81 | 2.73 | 2.91 |
| | Existing | 43045 | Existing | 5 | 17.10 | 16.11 | 20.55 | 2.85 | 2.69 | 3.43 |
| | | 6 circuit Au | | 10 | 17.44 | 17.17 | 17.83 | 2.91 | 2.86 | 2.97 |
| 43030 Au | | | | 1 | 21.49 | 20.88 | 22.01 | 3.58 | 3.48 | 3.67 |
| | New | 43045 | New | 5 | 24.26 | 23.48 | 25.30 | 4.04 | 3.91 | 4.22 |
| | | 6 circuit Au | | 10 | 26.89 | 25.78 | 28.36 | 4 48 | 4 30 | 4 73 |
| | | 43025 | | 1 | 19.29 | 18 39 | 20.26 | 3 22 | 3.07 | 3 38 |
| | Existing | 6 circuit | Fxisting | 5 | 12.23 | 10.95 | 13.44 | 2.07 | 1.83 | 2 24 |
| | Existing | (43030 Sn) | EXISTING | 10 | 14 30 | 13 25 | 16.41 | 2.38 | 2 21 | 2.24 |
| 43031 Sn | | 43025 | | 1 | 19.49 | 19.14 | 20.03 | 3 25 | 3 19 | 3 34 |
| | New | 6 circuit | New | 5 | 19.15 | 19 31 | 20.03 | 3 29 | 3.22 | 3 36 |
| | itew | (43030 Sn) | new | 10 | 19.75 | 18.64 | 20.15 | 3.25 | 3.11 | 3 38 |
| | Existing | /3025 | Existing | 1 | 25.18 | 24.24 | 26.20 | <u> </u> | 4.05 | 4.49 |
| | New | 6 circuit | Existing | 1 | 23.10 | 18.86 | 20.02 | 3 65 | 3 16 | 4.09 |
| | Fristing | (43030 Au) | New | 1 | 18 33 | 17.88 | 18.64 | 3.05 | 2.98 | 3 11 |
| | LAISTING | 43025 7.07 | INCOV | 1 | 17 0/ | 16.17 | 19.04 | 2 99 | 2.50 | 3 20 |
| 43031 \ | Fricting | 6 circuit | Fricting | 5 | 18 57 | 17.22 | 20.25 | 2.33 | 2.70 | 2 2 2 |
| -3031 AU | LAISUNG | (43030 Δii) | LAISTING | 10 | 10.57 | 17.22 | 20.25 | 3.03 | 2.07 | 3.50 |
| | | (-3030 Au) | | 1 | 17.02 | 16.14 | 18.26 | 2.20 | 2.55 | 3.04 |
| | New | 6 circuit | New | 5 | 19.73 | 18.00 | 21.00 | 3 20 | 3.00 | 3 50 |
| | TVC VV | (43030 Διι) | IVC W | 10 | 22.75 | 20.30 | 25.03 | 3.23 | 3.00 | <u>4 17</u> |
| | New | 43025 6 circuit (43030 Au) | New | 1 5 10 | 17.02 19.73 22.87 | 16.14 18.00 20.39 | 18.26 21.00 25.03 | 2.84 3.29 3.81 | 2.69 3.00 3.40 | 3.04 3.50 4.17 |
| VISION: | ECR/ECN I | NFORMATION | <u>: TITLE:</u> | | т | EST S | UMMA | RY | | SHEE |
| C | DATE 201 | 0434 19/06/12 | | MICF | RO-FIT (///// דוסו | 3.0) C | | CTOR S | | 6 c |
| | | | | | | | | | | |
| | | | | | | | | <u>, , , , , , , , , , , , , , , , , , , </u> | <u>APPRO</u> | |
| 430450005-TS AF | | | AFAVA | ZZA | S | SOUSEK | | FSN | /ITH | |

TEMPLATE FILENAME: TEST_SUMMARY[SIZE_A](V.1).DOC

6.4 THUMB LATCH TO RAMP YIELD STRENGTH All values in lbf. Specification: 13 lbf MINIMUM

molex®

| Housing | Existing / New | Mating Housing | Existing / New | mean | min | тах |
|---------|-------------------|-------------------|-------------------|-------|-------|-------|
| 43025- | Existing | 12015 | Evicting | 18.54 | 17.39 | 19.85 |
| 0800 | New | 45045 | Existing | 15.90 | 15.35 | 16.63 |
| 43645- | Existing | 12650 | 3650 Existing | 27.91 | 27.13 | 28.91 |
| 0200 | New | 45050 | | 19.54 | 18.86 | 20.58 |
| 43025- | Evicting | 42045 | Existing | 17.98 | 17.57 | 18.64 |
| 0400 | EXISTING | 45045 | New | 16.65 | 15.62 | 17.74 |

6.5 PANEL MOUNT RETENTION All values in lbf. Specification: 35 lbf MINIMUM

| Housing | Panel Thickness | Existing / New | min | тах |
|----------------|--------------------|-------------------|-------|-------|
| | 055 inch | Existing | > 50 | > 50 |
| 43020- 1800 | .055 IIICII | New | > 50 | > 50 |
| | 100 inch | Existing | 43.12 | > 50 |
| | .100 mcn | New | > 50 | > 50 |
| | OFF inch | Existing | 46.36 | 49.71 |
| 43020- | .055 11011 | New | > 50 | > 50 |
| 2400 | 100 inch | Existing | 42.64 | > 50 |
| | .100 Inch | New | > 50 | > 50 |

| REVISION: | ECR/ECN INFORMATION: | TITLE: T | EST SUMMARY | | SHEET No. | |
|--|-------------------------|-----------------------|-------------------------------|--------|-----------|--|
| C | EC No: 618434 | MICRO-FIT (| MICRO-FIT (3.0) CONNECTOR SER | | | |
| C | <u>DATE:</u> 2019/06/12 | MULTIPL | E PLANT LOCAT | IONS | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROV | ED BY: | |
| 430450005-TS | | AFAVAZZA | SSOUSEK FSM | | ІТН | |
| TEMPLATE FILENAME: TEST SUMMARYISIZE AI(V.1).DOC | | | | | | |

6.6 TEMPERATURE RISE / TEMPERATURE RISE STABILITY 6.6.1 Wire-to-Wire

| 6-circuit parts with 20 Awg wire tested. Temp Rise Specification: Not exceed +30°C at Rated Current | | | | | | | |
|--|-------|-------------|-------|----------|-------|--|--|
| Terminal | 43030 | Existing | New | Existing | New | | |
| | 43031 | Existing | New | Existing | New | | |
| Plating Finish | | Hot Tin Dip | | Gold | | | |
| Rated Current (Amps) | | 5.0 | | | | | |
| Temp Rise at Rated Current (°C) | Mean | 22.34 | 22.63 | 21.38 | 22.76 | | |
| | Min | 19.79 | 20.83 | 19.53 | 21.01 | | |
| | Max | 24.61 | 26.57 | 24.18 | 24.95 | | |
| 18-Day Stability | | Pass | Pass | Pass | Pass | | |

6.6.2 Wire-to-Board

molex

| 6-circuit parts with 20 Awg wire tested. Temp Rise Specification: Not exceed +30°C at Rated Current | | | | | | | | |
|--|-------|-------------|-------|-----------|-------|----------|-------|--|
| Crimp Terminal | 43030 | Existing | New | Existing | New | Existing | New | |
| Header | 43045 | Existing | New | Existing | New | Existing | New | |
| Plating Finish | 43030 | Hot Tin Dip | | | | Gold | | |
| | 43045 | Reflow Tin | | Matte Tin | | Gold | | |
| Rated Current (Amps) | | 5.5 | | | | | | |
| Temp Rise at Rated Current (°C) | Mean | 22.16 | 22.81 | 22.84 | 21.75 | 23.05 | 23.30 | |
| | Min | 20.62 | 20.10 | 20.56 | 19.72 | 20.46 | 20.85 | |
| | Max | 24.22 | 24.68 | 24.72 | 25.49 | 25.58 | 25.28 | |
| 18-Day Stability | | PASS | PASS | PASS | PASS | PASS | PASS | |

| REVISION: | ECR/ECN INFORMATION: | <u> LE:</u> T | TEST SUMMARY | | | | |
|--|----------------------|-------------------------|--------------|----------------------|--|--|--|
| C | <u>EC No:</u> 618434 | MICRO-FIT (| SERIES | 8 of 8 | | | |
| C | DATE: 2019/06/12 | MULTIPL | | | | | |
| DOCUMENT NUMBER: | | CREATED / REVISED BY: | CHECKED BY: | APPROVED BY: | | | |
| 430450005-TS | | AFAVAZZA | SSOUSEK | FSMITH | | | |
| TEMPLATE FILENAME: TEST_SUMMARY[SIZE_A](V.1).DOC | | | | | | | |