Product Specification 108-60016 AMP Common Termination (CT), Connector 2mm Pitch, M/T Type, Lead Free Version

Scope: 1.

1.1 Contents:

> This specification covers the requirements for product performance, test methods and quality assurance provisions of AMP Common Termination (CT), Connector, 2mm Pitch, M/T Type. The applicable product description and part numbers are as shown in Fig.1:

| Product Part No. | Descriptions |
|------------------|--|
| x-173977-x | M/T Receptacle Connector Assembly, 2-15-Pos. #28/#26 AWG |
| x-179694-x | M/T Receptacle Connector Assembly, 2-15-Pos. #24 AWG |

2. Applicable Documents

> The following documents form a part of this specification to the extent specified herein. In the event of conflict between the requirements this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements this specification and referenced documents, this specification shall take precedence.

2.1 AMP Specifications:

Test Specification, General Requirements for Test Methods A. 109-5000

B. 114-5104 **Application Specification**

C. 501-60003 Test Report

| EDENTIAL AND IS DISCLOSED TO YOU RTHER DISCLOSURE IS MADE BY YOU ONNEL WITHOUT WRITTEN AUTHORIZA, LTD | D. 108-60016-8 Special Specification for SWARCO FUTURIT 2.2 Military Standard and Specifications: MIL-STD-202: Test Methods for Electronic and Electrical Component Parts. | | | | | | | | | | |
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| THIS INFORMATION IS CONFIE ON CONDITION THAT NO FUR TO OTHER THAN AMP PERSOI TION FROM AMP SHANGHAI L | | | | | 20FEB | DR J.JIA CHK S. YA APP T. SA PAGE | AO | NO 108-60016 | TE Conr | nectivi REV E3 | ity LOC ES |
| DIST | E3 LTR | | REVISED | SSM DR | 24 DATE | 1 of 12 AMP Common Termination (CT), Connector, 2mm Bitch M/T Type | | | | | |

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| | | | | | | | | | |
| | | Post | : Brass, Ti | n Plating | | | | | |
| | | Housing | : 6T PA (U | | | | | | |
| | E. | SMT Type Post Header 1 | | | ıl (V) | | | | |
| | | Housing Post | : 6/6 Nylor : Brass, Tii | | CUL94 V - | 0) | | | |
| | D. | Post Header Horizontal (| | | - | | | | |
| | _ | Post | : Brass, Go | | - | - | | | |
| | | Housing | : 6/6 Nylor | | | | | | |
| | C. | Post Header Horizontal (| (H), Vertical | (V) & Re | lay Use (R | .), Gold Plated Pro | oduct | | |
| | | Post Contact | : Brass, Tii | n Plating | | | | | |
| | | Post Header Housing | : 6/6 Nylor | n (UL94V | (-0) | | | | |
| | В. | Post Header Horizontal (| (H), Vertical | (V) & Re | lay Use (R) |) | | | |
| | | Receptacle Contact | : Phosphor | Bronze, | Tin Plating | | | | |
| | | Housing | : Glass-fill | ed, PBT (| UL94 V-0 |) | | | |
| 5.2 | | MT Receptacle Housing | Assembly | | | | | | |
| 3.2 | | oduct drawing. aterials: | | | | | | | |
| | | oduct shall be of the design | n, construction | n and phy | sical dimer | nsions specified or | 1 the applic | able | |
| 3.1 | De | sign and Construction: | | | | | | | |
| | 3. | | Requireme | nts: | | | | | |
| | | | | | | | | | |

2

| A. Voltage Rating | : 125 V(AC/DC) |
|-------------------|----------------|
| B. Current Rating | : 3A #24 AWG |
| | 2A #26 AWG |
| | 1A #28 AWG |
| | |

C. Temperature Rating: -40° C to $+105^{\circ}$ C

The upper limit of the temperature includes the temperature rising resulted by the energised electrical current.

3.4 Applicable Wires:

| A. Wire Size : #28 AWG, #26 AV | WG (0.08mm ² /0.14mm ²) |
|--|--|
| Recommended UL | L Grade: UL 1061, UL 1571 |
| #24 AWG (0.22mi | 1m ²) |
| Recommended UL | L Grade: UL 1728 |
| P. Insulation Diamator . 0.82mm/1.05mm | |

| В. | Insulation Diameter | : 0.83mm/1.05mm |
|----|---------------------|----------------------------|
| | | 0.95~1.05mm (Only AWG #24) |

3.5 Applicable Printed Circuit Board

| A. Board Thickness | : 0.8mm/1.6mm |
|--------------------|-----------------------------------|
| B. Hole Diameter | : 0.8mm/0.9mm (for punched holes) |
| | 0.85mm/0.9mm (for drilled holes) |

3.6 Applicable Panel Thickness

0.8~1.6mm (To be used for post header assembly relay)

3.7 Performance Requirements and Test Descriptions:

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Fig.2, Para. 3.8. All tests shall be performed in the room temperature unless otherwise specified.

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| Para. | Test Items | Mecl | hanical Per | quirement | | nents | Procedures | | |
|-------|---------------------------|--------------------------------|-------------------|---------------------|---------------------|--------------------|--|--|--|
| 3.8.1 | Connector | For post | | | | | Subject terminated connector | | |
| (1) | Mating/ Unmating Force | [Max.] [Min.] | | | | | and header to mate and unmate to measure the force required to | | |
| | | No. of Pos. | Inser | tion | Extra | ction | engage and disengage by | | |
| | | 2 | | | | | operating the head at a rate of a mm a minute. Record by using | | |
| | | 3 | 34.3 (3.5 | | 4.9 (0.5 | | autograph. | | |
| | | 4 5 | 49 | N | 6.80 | 5 N | | | |
| | | 6 7 | (5.0 | | 6.86 N (0.7 kgf) | | | | |
| | | 8 9 | 63.7 | | | 9.8 N | | | |
| | | 10 | (6.5 | kgf) | (1.0 | kgf) | | | |
| | | 11 ~ | 73.5 | | 13.7 | | | | |
| | | 15 | (7.5 | KgI) | (1.4 | KgI) | | | |
| | | For Relay HDR [Max.] [Min.] | | | | | | | |
| | | No. of Pos. | Insertion | | Extraction | | | | |
| | | | Non - | Lock | Non - | Lock | | | |
| | | | Lock Side | Side | Lock Side | Side | | | |
| | | 2 3 | 34.3 N | 49 N | 4.9 N | 7.84 N | | | |
| | | 4 5 | _ | _ | (0.5 kgf) | | Relay HDR | | |
| | | 6 7 | 49 N (5.0 kgf) | 63.7 N (6.5 kgf) | 6.86 N (0.7 kgf) | 9.8 N (1.0 kgf) | | | |
| | | 8 | 63.7 N | 78.4 N | 9.8 N | 12.74 N | Non-Lock Lo Side. Side | | |
| | | 9 10 | (6.5 kgf) | (8.0 kgf) | (1.0 kgf) | (1.3 kgf) | Side. | | |
| | | 11 ≀ | 73.5 N | | 13.72 N | | | | |
| | | 15 | (7.5 kgf) | (9.0 kgf) | (1.4 kgf) | (1.7 kgf) | | | |
| | | | Fig. 2 | (To be co | ntinued) | | | | |
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3.8 Test Requirements and Procedures Summary:

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| Para. | Test Items | | Requirements | | Procedures | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|---|------------------------------------|-------------------------------|--|--|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|----------------------|--|
| 3.8.1 (2) | Contact Unmating Force | 0.784 N (80 gf) Min. | | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | | 0.784 N (80 gf) Min. | |
| 3.8.1 (3) | Tensile Strength of Wire Termination | Wire Size (AWG) | Traverse Direction Min. | Axial Direction Min. | Apply a pull-off load to terminated wire of contact secured on the tester, at a rate o 100mm (4.0") a minute. The load is applied in the axial | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 28 | 11.8 N (1.2 kgf) | 14.7 N (1.5 kgf) | and lateral directions as specified. | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 26 (UL 10272) | 11.8 N (1.2 kgf) | 19.6 N (2.0 kgf) | - | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 26 (except UL 10272) & #24 | 14.7 N (1.5 kgf) | 19.6 N (2.0 kgf) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 26 (UL11668) | 7.8 N (0.8 kgf) | 19.6 N (2.0 kgf) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Apply Ribbon | Cables and Fla | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Wire Size (AWG) | Traverse Direction Min. | Axial Direction Min. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 28 | 7.8 N | 14.7 N (1.5 kgf) | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | # 26 & #24 | (0.8 kgf) | 19.6 N (2.0 kgf) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3.8.1 (4) | Post Contact Retention Force | For SMT type: | | | Apply axial load to contact by operating at a rate of 50 mm a | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 7.84N(0.8Kgf) | Min. per contac | minute, after preconditioning fo 3 insertion/extraction cycles by using applicable post contact. See Fig. 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | For other type: | : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 14.7N(1.5Kgf) | Min. per conta | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1 | - Fig 2 | 2. (To be contin | ued) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 1 18.2 | . (10 be contin | ucu) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Para. | Test Items | Requirements | Procedures |
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| 3.8.1 (5) | Panel Mounting Force (To be applied to post header for relay use) | 49N (5kgf) Max. | By using AMP recommended panel cut- out layout dimension, specified in AMP Customer Drawing, measure the force required to mount header into the panel. Loading is made from the punch entering direction of the cut-out hole. See Fig. 6 |
| 3.8.1 (6) | Panel Retention Force | 83.3N (8.5kgf) Min. | By using AMP recommended panel cut- out layout dimensions, specified in AMP Customer Drawing, measure the force required to dislodge header from the cut- out hole. AMP specification, 109-49 |
| 3.8.1 (7) | Examination of Product | Product shall be confirming to the requirements of applicable product drawing and Application Specification 114-5104 | Visually, dimensionally and functionally inspected per applicable inspection plan. |
| | | Electrical Performance Requirem | nents |
| 3.8.2 (1) | Termination Resistance (Low Level) | 10 mΩ Max. (Initial) 20 mΩ Max. (Final) | Subject mated contacts assembled in housing to closed circuit current of 10 m max. at open circuit voltage of 20 mV max. Fig. 3. AMP Spec. 109-5306 |
| 3.8.2 (2) | Dielectric Strength | Connector must withstand test potential of 1.0 kV (AC) for 1 minute. Current leakage must be 5.0 mA max. | Measure by applying test potential between the adjacent contacts, and between the contacts and ground in the mated connector assembly. (Measure on housing surface.) MIL-STD-202, Method 301 |
| 3.8.2 (3) | Insulation Resistance | 1000 MΩ Min. (Initial) | Measure by applying test potential between the adjacent contact, and between the contacts and ground in the mated connector assembly. MIL-STD-202, Method 302, Condition B. |
| 3.8.2 (4) | Temperature Rising vs. Current | 30°C max. under loaded specified current | Measure temperature rising by energized current probing on the tine area of the post. AMP Spec. 109-5310 |
| | | Fig. 2 (To be continued) | |
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| Para. | Test Items | Reaui | rements | | Procedures | | |
|-----------|---------------------------------------|--|--------------------------|------------------|---|----------------------------|-----------|
| | | Environmental Pe | | Require | | | |
| 3.8.3 (1) | Vibration Sinusoidal Low Frequency | No electrical disc than 1 microsecc Termination resi shall be met | continuity good shall or | greater ccur. | Subject mated connectors to 1 traversed in 1 minute at 1.52 r amplitude 2 hours each of 3 m perpendicular planes MIL-STD-202, Method 201, Condition A | nm | Hz |
| 3.8.3 (2) | Physical Shock | No electrical dise than 1 microsecc Termination resi shall be met. | ond shall oc | cur. | Subject mated connectors to 4 halfsine shock pulses of 11mil duration; 3 shocks in each dire applied along the 3 mutually p planes total 18 shocks. MIL-STD-202, Method 213 Condition A | lisecond ection | |
| 3.8.3 (3) | Temperature Life | Termination resi shall be met. | stance (low | level) | Subject mated connectors to te life; testing atmosphere at 85± hours | - | |
| 3.8.3 (4) | Resistance to Cold | Termination resi shall be met | stance (low | level) | Subject mated connectors to c atmosphere at -25±3°C for 48 Subsequent measurement shal after reconditioning in the roo temperature for 1 hour. | hours. l be done | |
| 3.8.3 (5) | Humidity, Steady State | Insulation resista 500 MΩ min. Termination resi (low level) shall | stance | | Subject mated connectors to s humidity at 40°C and 90-95 % (R.H.) MIL-STD-202, Method 103 Condition B | teady sta | te |
| 3.8.3 (6) | Thermal Shock | Termination resi shall be met | stance (low | level) | Subject mated connectors to 5 between –55°C and 85°C for 3 each duration at temperature e MIL-STD-202, Method 107 Condition A | 30 minute | |
| 3.8.3 (7) | Salt Spray | Resistance (low a must meet visual requirements, wh | & electrica | ıl | Subject mated/unmated conne salt concentration for 48 hours MIL-STD-202, Method 101 Condition B | | 5% |
| 3.8.3 (8) | Sulfurous Acid Gas | Termination resi shall be met. | stance (low | level) | Subject mated connectors to s gas atmosphere of 3 ± 1 ppm c at $40\pm 2^{\circ}$ C for 240 hours. Sub measurement shall be done aft reconditioning in the room ter 1 hour. | oncentra sequent ter | tion |
| 3.8.3 (9) | Solderability | Solderable area solder coverage | of 95% mi | nimum | Subject contacts to soderabilit specified. MIL-STD-202, Method 208 | y testing, | , as |
| | | Fig. 2 (To | o be continu | ied) | | | |
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| Para. | Test Items | Requirements | Procedures |
| 3.8.3 (10) | Resistance to Soldering Heat | No physical damage shall be evident after testing | Subject product mounted on printed circuit boards to solder bath at $245\pm5^{\circ}$ C for 10 ± 1 seconds MIL-STD-202, Method 210 except as indicated above when testing by manual soldering iron, apply it as 350 ± 100 C for 3 $^{+1}_{-0}$ seconds without forcing pressure to affect the tine of contact. SMT product mounted on printed circuit boards to solder reflow as like Fig. 7. (Measured at housing surface) |
| 3.8.3 (11) | Sequence Testing | The requirements for the each testing level shall be met. | See Para. 3.8.3 (11-1) and Para. 3.8.3 (11-2) |
| 3.8.3 | Connector Repeated | After testing, terminator resistance | Subject connector assembly to 30 cycles of |
| (11-1) | Mating/Unmating | (low level) shall be met. | repeated mating/unmating at a rate of 10 cycles a minute |
| 3.8.3 | Temperature Humidity | After testing, termination | Subject mated connector to temperature chang |
| (11-2) | Cycling | resistance (low level) shall be met | between 25°C and 65°C with 95 %(R.H.) for 5 |
| | | | cycles. |
| | | | JIS C 0028 |

Fig. 2 (End)

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4. Quality Assurance Provisions:

4.1 Test Condition:

Unless otherwise specified, all the tests shall be performed under any combination of the following test conditions.

| Temperature | : 15-30°C |
|---------------------|------------------------------|
| Relative Humidity | : 45-75 % |
| Atmosphere Pressure | : 86.7~107kPa (650-800 mmHg) |

4.2 Test Specimens:

The test specimens to be used for the performance evaluation testing, shall be prepared in accordance with AMP Application Specification, 114-5104, Termination of AMP CT Connector, 2 mm Pitch, M/T Type, by using the samples selected from the current production at random, and conforming to the requirements of the applicable product drawing.

5. Applicable Wires:

(Note: For compatibility of the wires for termination, the wires must be evaluated respectively, by the manufacturers, brand, tradenames and product catalogue numbers.)

| Applicable V (Nominal) | Wire Specifications | Wire Size | No. of Diameter Conductors of a Conductor (mm) | Calculated Cross- sectional Area (mm ²) | Insulation Diameter (mm) |
|---------------------------|-------------------------------|-----------|--|--|-----------------------------|
| Discrete Win | | | | | |
| | UL 1061 | | # 26 AWG | #26 AWG | #26 AWG |
| Ribbon Cabl | le UL 2651 UL 20058 | #26 AWG | (7/0.16) | (0.14) | (0.93/1.05) |
| Flat | UL 1533 | #28 AWG | # 28 AWG | #28 AWG | #28 AWG |
| Shielded Wire | UL 2547 UL 1691 UL 2791 | | (7/0.127) | (0.08) | (0.83/0.97) |
| Discrete Wire | UL 1728 | #24 AWG | # 24 AWG (7/0.203) | # 24 AWG (0.22) | # 24 AWG (0.95/1.06) |

6. Storage temperature and humidity requirements:

Nylon material products need to have a good condition of storage, The temperature is 15°C-30°C, and the humidity is controlled within 60% for open product.

7. Storage environment requirements:

Products need to be stored in environmentally controlled warehouses. It is necessary to pay attention to the waterproof and fireproof measures of the open product.

8. Packing requirements:

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It is necessary to ensure the original packaging of the product and pay attention to sealing the remaining products after the product is unpacked and used (open product).

| Product Part No. | Product Descriptions | No. of Pos. |
|------------------|--|-------------|
| x-292253-x | Post Header, Horizontal (H) | 2~15 Pos. |
| x-292167-x | Post Header, Horizontal (H) in Tube | 2~15 Pos. |
| x-292143-x | Post Header, Horizontal (H) w/o Kink | 2~15 Pos. |
| x-292168-x | Post Header, Horizontal (H) w/o Kink in Tube | 2~15 Pos. |
| x-292161-x | Post Header, Vertical (V) | 2~15 Pos. |
| x-292169-x | Post Header, Vertical (V) in Tube | 2~15 Pos. |
| x-292145-x | Post Header, Vertical (V) w/o Kink | 2~15 Pos. |
| x-292170-x | Post Header, Vertical (V) w/o Kink in Tube | 2~15 Pos. |
| x-292132-x | Post Header, Vertical (V), Box Type | 2~15 Pos. |
| x-292165-x | Post Header, Vertical (V), Box Type in Tube | 2~15 Pos. |
| x-292133-x | Post Header, Vertical (V), Box Type w/o Kink | 2~15 Pos. |
| x-292166-x | Post Header, Vertical (V), Box Type w/o Kink in Tube | 2~15 Pos. |
| x-292134-x | Post Header, Vertical (V) Gold-plated Contact, Box Type | 2~6 Pos. |
| x-292135-x | Post Header, Vertical (V), Short Tine, Box Type w/o Kink | 2~15 Pos. |
| x-292251-x | Post Header, Vertical (V), Box Type, Polarized | 2~15 Pos. |
| x-292250-x | Post Header, Horizontal (H), Box Type | 2~15 Pos. |
| x-292164-x | Post Header, Horizontal (H), Box Type in Tube | 2~15 Pos. |
| x-292130-x | Post Header, Horizontal (H) Short Tine, Box Type | 9~10 Pos. |
| x-292254-x | Post Header, w/Panel Lock, for Relay | 2~15 Pos. |
| | | |

The applicable product descriptions and part numbers are as shown in Appendix 1.



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| Product Part No. | Product Descriptions | No. of Pos. |
|------------------|---|-----------------|
| x-292156-x | Post Header, Free Hanging, for Relay | 2~5 Pos. |
| x-292147-x | Post Header, Vertical (V), Box Type, SMT Type | 6 Pos. |
| x-292153-x | Post Header, Vertical (V), SMT Type | 2~9 Pos. |
| x-292171-x | Post Header, Vertical (V), SMT Type, in Tube | 2~9 Pos. |
| x-292154-x | Post Header, Vertical (V), SMT Type, w/o Embossment | 2~9 Pos. |
| x-292172-x | Post Header, Vertical (V), SMT Type, in Tube w/o Embossment | 2~9 Pos. |
| x-292148-x | Post Header, Horizontal (H) SMT Type, Box Type | 2~6, 8 Pos. |
| x-292149-x | Post Header, Horizontal (H) SMT Type, Box Type | 2~6, 8 Pos. |
| x-292173-x | Post Header, Horizontal (H) SMT Type, Box Type, on Embossment Tape | 2~6, 8 Pos. |
| x-292146-x | Post Header, Vertical (V) GF Type | 2, 4, 8~11 Pos. |
| x-292136-x | Post Header, Vertical (V), Box Type, Polarized GF Type | 7~10, 13 Pos. |
| x-292151-x | Post Header, Vertical (V), SMT Type, Box Type | 2~8 Pos. |
| x-292175-x | Post Header, Vertical (V), SMT Type, Box Type on Embossment Tape | 2~8 Pos. |
| x-292150-x | Post Header, Vertical (V), SMT Type, Box Type with Boss | 2~8 Pos. |
| x-292174-x | Post Header, Vertical (V), SMT Type, Box Type on Embossment Tape | 2~8 Pos. |
| x-292112-x | CT Conn MT Rec Assy. | 2~15 Pos. |
| x-292131-x | SGL HDR Assy Box Dip V Polaris. | 2~15 Pos. |
| x-292297-x | CT DBL Row HDR V W/Boss 16P Black | 16~30 Pos. |
| x-292129-x | SGL HDR Assy Box Dip H W/Kink | 2~15 Pos. |
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