

TO

SPECIFICATION FOR APPROVAL

DESCRIPTION: Pitch 1.25mm ,Wire To Board Connector, V/T, SMT Type

CUSTOMER PROD.NO/DWG.NO:

E&T PROD.NO: 3950K-XXXX-0XX

APPROVAL SHEET NO:

E&T DWG. NO./DOCUMENT: 3950K-XXXX-0XX

REV: A3

PLEASE RETURN TO US ONE COPY OF "SPECIFICATION FOR APPROVAL" WITH YOUR APPROVED SIGNATURES.

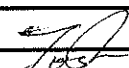
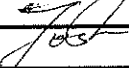
| APPROVED SIGNATURES | | | |
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**ENTERY INDUSTRIAL CO., LTD.
E&T ELECTRONICS (DONG GUAN) CO., LTD.
E&T ELECTRONICS (SU ZHOU) CO., LTD.
E&T ELECTRONICS (NANKEEN)CO.,LTD.**

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**Title : Pitch 1.25mm ,Wire To Board Connector,
V/T, SMT Type**

| | | | |
|------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|
| Release History | | Title: Pitch 1.25mm Wire To Board Connector, V/T, SMT Type Dual Row. | |
| A3 | 2011/10/31 | This Document Contains Information That Is Proprietary To E&T And Should Not Be Used Without Written Permission | |
| Rev | Description | | |
| Document No. | | Prepared By: Juno Chen | Date: 01,04,2009' |
| 3950K-XXXX-0XX | | Checked By:  | Date: 10/15/2011' |
| | | Approved By:  | Date: |

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PRODUCT SPECIFICATION

1. SCOPE :

This specification covers the pitch 1.25 mm WIRE TO BOARD SMT connector series.

2. PRODUCT NAME AND PART NUMBER :

| Product Name | E&T Part Number |
|-----------------------------------------------------------|-----------------|
| 1.25mm WIRE TO BOARD Connector, V/T, SMT Type Dual Row | 3950K-XXXX-0XX |

3. RATINGS :

| Item | Standard | |
|-----------------------------|------------------------------------------|------------|
| Rated Voltage (MAX.) | 50 V | AC(rms)/DC |
| Rated Current (MAX.) | 1 A | |
| Operating Temperature Range | -40 ⁰ C ~ +85 ⁰ C* | |

*Including terminal temperature rise

4.PERFORMANCE :

4- 1 Electrical Performance

| Item | Test Condition | Requirement |
|-----------------------------|---------------------------------------------------------------------------------|--------------|
| 4-1-1 Contact Resistance | Test Current: 10 mA . Test Voltage: 20mV Max Test Method:EIA-364-06B | 20 mΩ MAX. |
| 4-1-2 Insulation Resistance | Test Voltage: 500V DC. Test Duration: 1 minutes. Test Method: EIA-364-21C | 100 MΩ Min. |
| 4-1-3 Dielectric Strength | Test Voltage: 500 V AC(rms). Test Time: 60 sec. Test Method: EIA-364-20B | No Breakdown |

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4-2 Mechanical Performance

| Item | | Test Condition | Requirement | |
|-------|--------------------------------|-------------------------------------------------------------------------------------------------------------|--------------------|-------------------|
| 4-2-1 | Insertion and Withdrawal Force | Test Speed: 25±3 mm/min. Test Method: EIA-364-13B | Insertion Force | 0.32 kgf/PIN MAX. |
| | | | Withdrawal Force | 0.05 kgf/PIN Min. |
| 4-2-2 | Pin Retention Force | Test Speed: 25±3mm/min. | 0.2 kgf (Min) | |
| 4-2-3 | Durability | The contacts of connector shall be subject to 30 cycles of mating and unmating. Test Method: EIA-364-09C | Contact Resistance | |
| | | | Initial Value | ≤ 20 mΩ |
| | | | Final Value | ≤ 40 mΩ |

4-3 Environmental Performance and Others

| Item | | Test Condition | Requirement | |
|-------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------|
| 4-3-1 | Vibration | Amplitude : 1.5 mm P-P Frequency range: 10~55~10 Hz in 1 minute Duration: 2 hours in each X.Y.Z axes Test Method: EIA-364-28D | Appearance | No Damage |
| | | | Contact Resistance | ≤ 40 mΩ |
| | | | Discontinuity | 1μsec MAX |
| 4-3-2 | Heat Resistance | Temperature: 85±3°C Duration: 96 hours | Appearance | No Damage |
| | | | Contact Resistance | ≤ 40 mΩ |
| 4-3-3 | Cold Resistance | Temperature: -40±2°C Duration: 96 hours | Appearance | No Damage |
| | | | Contact Resistance | ≤ 40 mΩ |
| 4-3-4 | Humidity | Temperature: 40±2°C Relative Humidity: 90~95% Duration: 96 hours Test Method: EIA-364-31B | Appearance | No Damage |
| | | | Contact Resistance | ≤ 40 mΩ |
| | | | Insulation Resistance | ≥ 50MΩ |
| | | | Dielectric Strength | Must meet 4-1-3 |
| 4-3-5 | Solder Ability | Soldering Time : 3±0.5 sec Solder Temperature : 245±5°C Test Method: EIA-364-52 | Solder Wetting | 95% Of Immersed Area Must Show No Voids, Pin Holes |

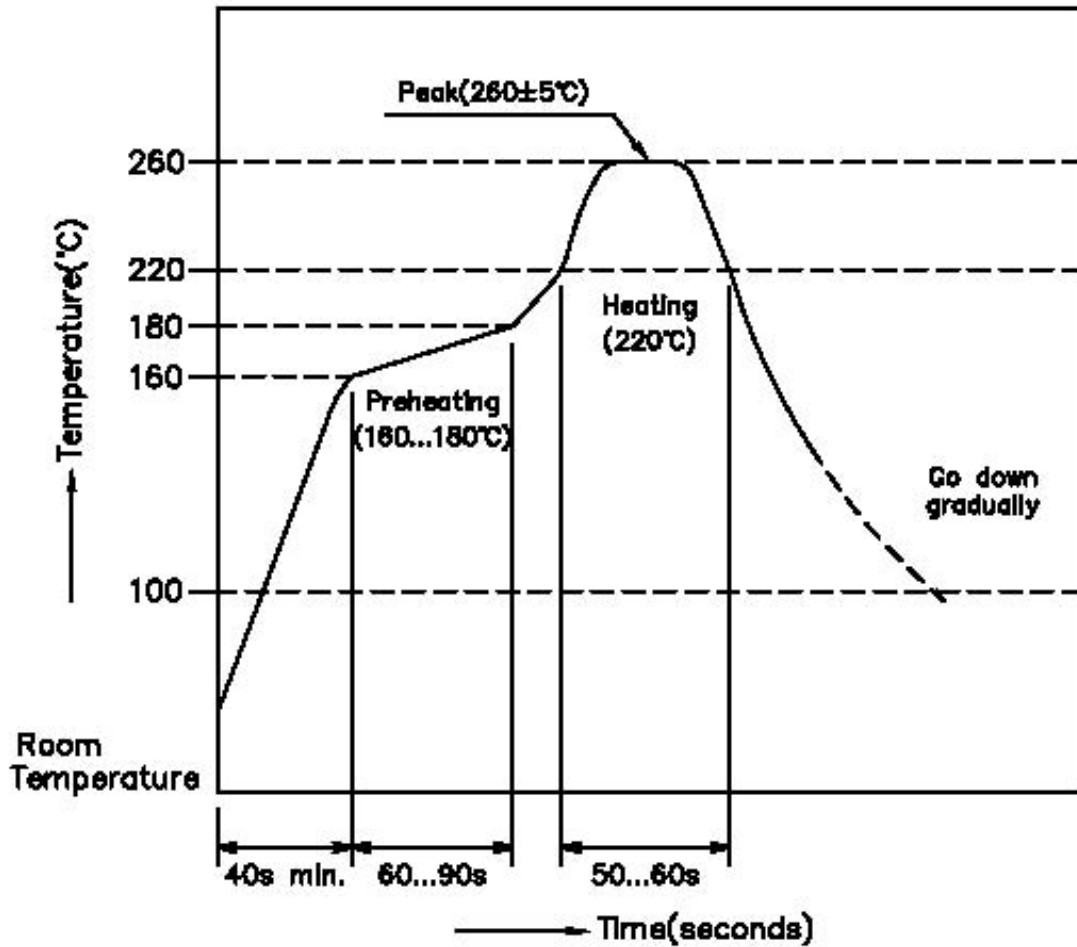
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| Item | | Test Condition | Requirement | |
|-------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------------------|
| 4-3-6 | Resistance To Soldering Heat | Soldering Time : 10±0.5 sec Solder Temperature : 260±5°C Test Method: EIA-364-56C | Appearance | No Damage |
| 4-3-7 | Steam Aging | Steam Aging Temperature : 98±2°C Duration: 8 hours Solder Temperature : 245±5°C Soldering Time : 3±0.5 sec Test Method: EIA-364-17B | Appearance | No Damage |
| | | | Solder Wetting | 95% Of Immersed Area Must Show No Voids, Pin Holes |
| 4-3-8 | Salt Spray | Chamber Temperature : 35±2°C Air Tank Temperature : 47±1°C Salt Solution : 5 ± 0.5% Duration : 48 hours Test Method: EIA-364-26B | Appearance | No Damage |
| | | | Contact Resistance | ≲ 40 mΩ |
| 4-3-9 | Temperature Cycling | 5 cycles of : a) - 40 ±3°C 30 minutes b) +25 ±3°C 30 minutes c) + 85 ±2°C 30 minutes Test Method: EIA-364-31B | Appearance | No Damage |
| | | | Contact Resistance | ≲ 40 mΩ |

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INFRARED REFLOW CONDITION

- 1) Ascending time to preheating temperature 170°C shall be 40 seconds minimum.
- 2) Preheating shall be fixed at 160...180°C for 60...90 seconds.
- 3) Heating shall be fixed at 220°C for 50...60 seconds.
- 4) At 260±5°C peak shall be 10 seconds maximum.



Wire To Board Handling Precautions

This manual is to describe basic precautions. When there are doubtful points in use of, please contact E&T.

1. Common Handling Precautions

- Do not expose E&T's wire to board connector, processing process product and processing product to corrosive substance, corrosive gas, high temperature and high humidity and direct sunshine. It causes corrosion of contact and deterioration of insulation performance of housing, etc., so that it causes motion defect of appliances.
- Do not apply external load to E&T's wire to board connector, processing process product and processing product . Deformation and breakage, etc. occur, and it causes performance defect of.
- There may be slight differences in the housing coloring, but there will be no influence on the product's performance.
- Please do not conduct any "washing process" on the connector because it may damage the product's function.
- E&T's wire to board connector is not designed for the mating and unmating of the connectors to be performed under the condition of an active electrical circuit. It may cause a spark and product defect if the connectors are mated and unmated in this way.

2. PC Board Precautions

- Exercise caution when handling boards with the connectors installed. Do not apply any forces affecting soldered joints. (see figure 1).
- The mounting specification for coplanarity does not include the influence of warpage of the printed circuit board. (see figure 1).
- Changing recommended pattern causes problems.

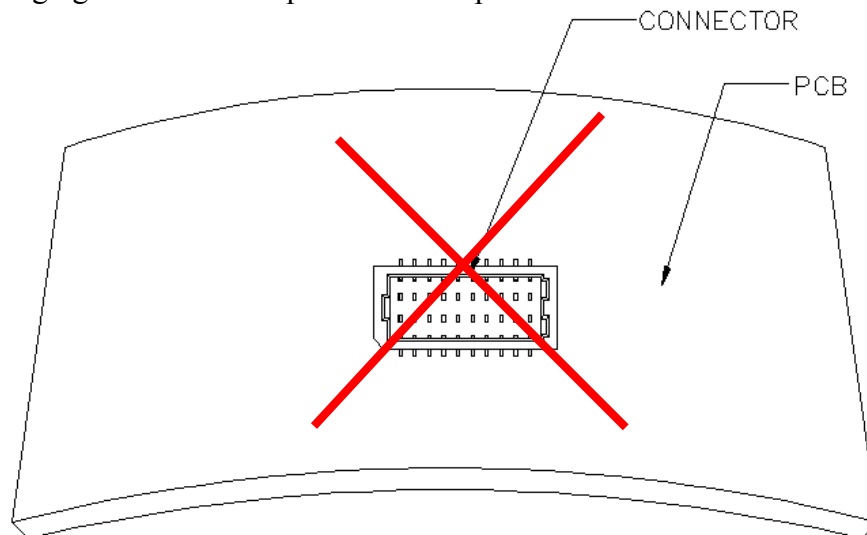


Figure 1.

3. Precautions Crimped Terminal Insertion

- Terminal must be inserted horizontally oriented (see figure 2).
- Do not attempt to insert crimped terminal in any other direction. (see figure 2).

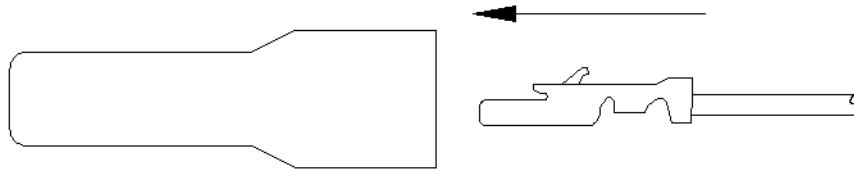


Figure 2.

4. Precautions When Inserting or Withdrawal Wire To Board

- Do not insert and remove at an angle of 25° or greater. Doing so will cause contact deformation or case damage. (see figure 3).
- Push the wire side connector until firmly closed. At this time, confirm that the wire side connector is mated securely.
- When mounting of connectors, its slant or aberration shall be 3° max.
- Do not insert and remove the connectors when the board side connector is not mounted on the PC board.
- Used Lock type, when removed to connectors, please released positive locks.

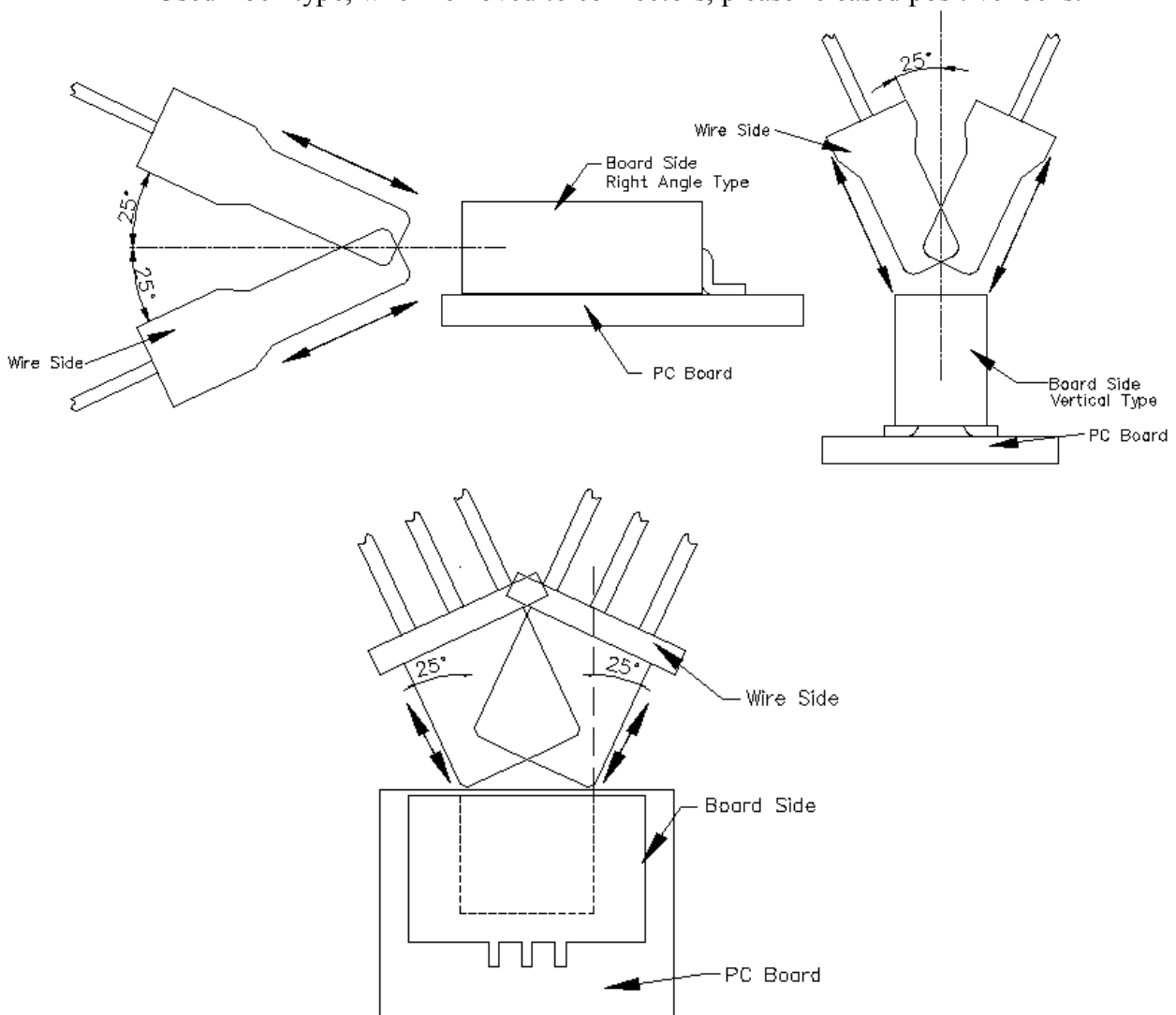


Figure 3.

5. Precautions Cable Assembly

- The cable assembly should not have a constant stress or pulling force applied on it when it is in the mated condition. Therefore, when designing the wire positioning, please ensure that there is enough length of wire to avoid stress on the connector. (see figure 4).

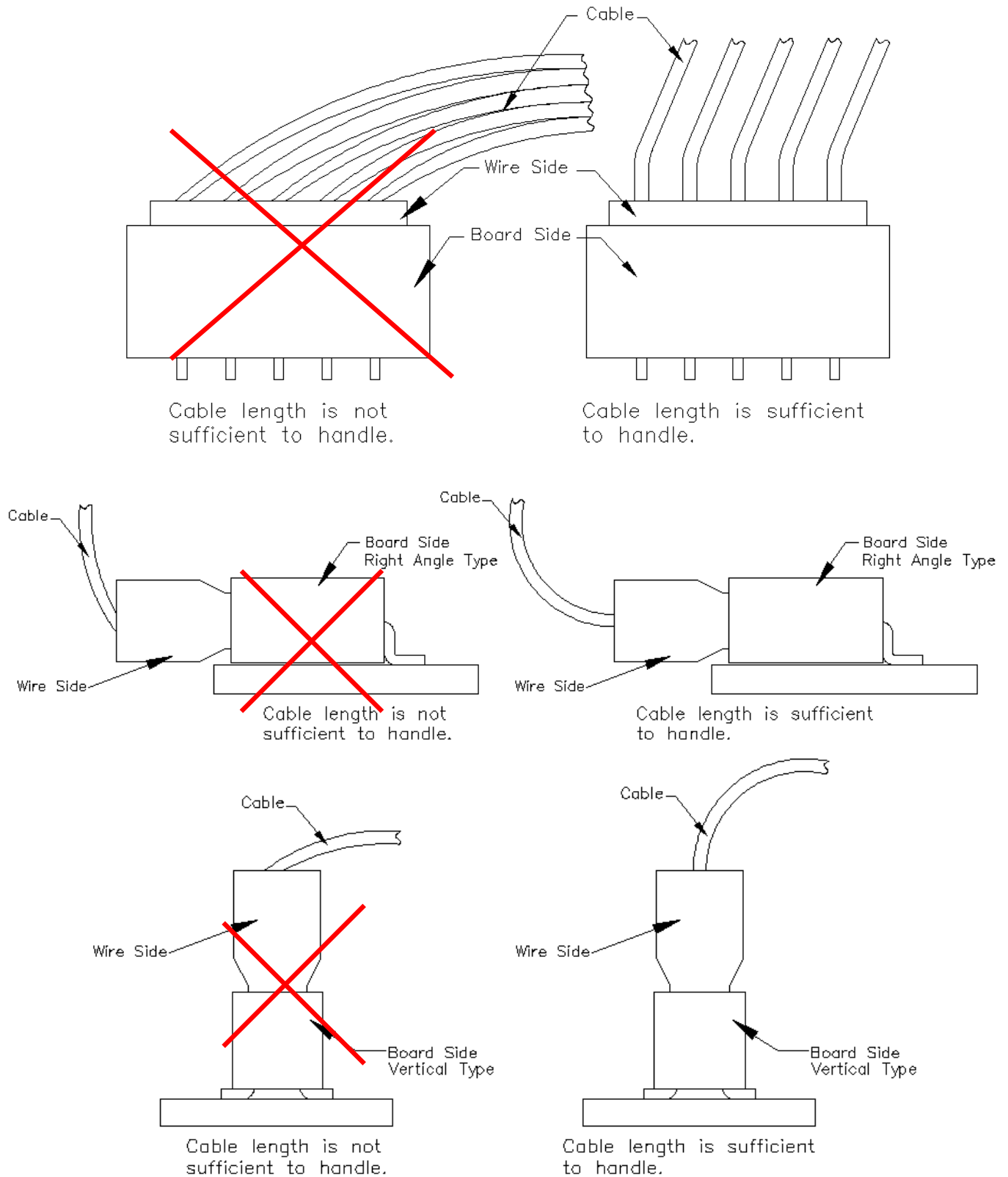


Figure 4.

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RELEASE HISTORY

| Rev. | Revisions | Date | Executor | Description |
|-------------|----------------------------|-------------|-----------------|---------------------------------------------------|
| A3 | RE201110012 RE201111028 | OCT-31-2011 | KAZ | ADD Handling Precautions Cancel Packaging Spec |
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