
1- Quality System:

Suppliers for Terminal & Cable (TC) shall establish and maintain a quality system that meet, as a minimum, the requirements of ISO 9001 and/or AS9100 for Aerospace aviation, space and defense products.

2- Quality Records:

Suppliers for Terminal & Cable shall maintain and control all records relating to manufacturing of product supplied to Terminal & Cable that provide documented evidence of product conformity including testing and inspection. Records shall be made available for review to the Buyer and/or authorized representatives/customers of the Buyer upon request. Records of the effective operation of the quality management system shall also be maintained and controlled.

All manufacturing records shall be retained in a safe, accessible location for a period of 10 years following the final payment for the purchase order.

3- Documents:

TC supplied customer specific documentation such as drawings, specifications, etc. provided to the supplier to support a purchase order shall be handled under the same requirements as a quality record. Documents held for the required record retention period shall not be destroyed without the buyer's written concurrence. Contact Buyer for concurrence. Additional retention/storage time, if required by Buyer, will be subject to negotiation. Seller shall notify Buyer of any activity at the Seller's facility that may impact the retention of these records.

Customer specific documentation shall not be forwarded to other parties without the written approval of Terminal & Cable and shall then only be transferred by secure methods.

4- Export Control:

ITAR restrictions where applicable, identified on the documentation, shall be strictly enforced. Suppliers shall comply with all applicable U.S. export control laws and regulations, specifically including, but not limited to, the requirements of the Arms Export Control Act, 22 U.S.C.2751-2794, including the International Traffic in Arms Regulation (ITAR), 22 C.F.R. et seq; and Export Administration Act, 50 U.S.C. app.2401-2420, including the Export Administration Regulations, 15 C.F.R 730-774; including the requirement for obtaining any export license or agreement, if applicable. Without limiting the foregoing, supplier agrees that it will not transfer any export-controlled item, data, or services, to include transfer to foreign persons employed by or associated with, or under contract to supplier without the authority of an export license, agreement, or applicable exemption or exception.

5- Nonconforming Material:

Suppliers shall notify Terminal & Cable of nonconforming product. Appropriate arrangements for approval and disposition shall be agreed upon with Terminal & Cable in writing.

No substitutions of materials, parts and/or Process changes are allowed without prior authorization by Terminal & Cable.

Suppliers shall notify Terminal & Cable of any proposed changes in product and/or processing prior to making a change by requesting written approval prior to the change, including a change to the processing location. There shall be no alternate, equivalent or substitutions without written authorization from Terminal & Cable prior to the shipment.

Terminal & Cable reserves the right to inspect supplies at the supplier's facility during the set up and manufacturing of supplies listed on a purchase order. Inspection by Terminal & Cable does not relieve the supplier of responsibility regarding defects, or other failures to meet the purchase order requirements.

6- Right of Access:

Terminal & Cable requires the right of access including its customers and regulatory authorities to the applicable areas of all facilities, at any level of the supply chain involved in the order and to all applicable records.

7- Flow down requirements:

When specified on PO, Terminal & Cable shall flow down the applicable specific requirements to the supply chain by stating each on the purchase order including applicable requirements of TC customers. Additional specific information regarding stated requirements will be attached to each purchase order and suppliers shall assure receipt of such information.

Suppliers shall verify they have received and reviewed all supporting documents. Including all specifications listed in the drawing notes, product drawings, process requirements, inspection instructions and all other relevant technical data prior to start of processing the order. Suppliers are responsible to flow down to sub-tier suppliers, where sub-tiers have been approved by TC, all applicable requirements in the purchasing documents.

8- Electrostatic Sensitive Devices:

All suppliers of ESD devices shall maintain a documented Electrostatic Discharge Protection Program to support the level of product delivered. The program must meet the requirement of ANSI/ESD S20.20 as a minimum and all additional customer flow downs stated on the purchase order. Suppliers shall maintain objective evidence of employee training including awareness programs, proper handling and packaging of ESD sensitive parts and assemblies, and the prevention of component damage by casual handling from untrained personnel.

ESD sensitive devices shall be packaged in a manner to provide maximum protection from electrostatic discharge.

Each device shall have the proper ESD identification on each package.

TC prohibits the use of static generating packaging materials, such as Styrofoam, plastics, and any other form of non-ESD packaging.

9- Counterfeit Component Prevention:

Suppliers shall maintain a counterfeit avoidance and detection plan that addresses the following areas: (a) the prevention and elimination of supplier sources that are at risk of providing counterfeit components. (b) documented process and training requirements, (c) the ownership and resident knowledge in detection and inspection practices.

Suppliers shall notify Terminal & Cable when suspect counterfeit material has been identified.

The supplier shall not deliver products that contain counterfeit items, such as, but not limited to, software, material, and electrical/mechanical parts and assemblies.

Franchise distributors shall comply with the requirements of AS5553 guidance for counterfeit prevention.

10- FOD Control Program:

The supplier shall establish, document, and maintain a program to control and eliminate Foreign Object Damage (FOD) and/or contamination during the supplier's manufacturing, assembly, test and

inspection, and packaging/shipping, such as the use of FOD causing materials like styro-foam packaging beads and other materials that cause dust or debris of any kind. When applicable, the supplier's FOD control program shall include controls to preclude FOD or contamination at the supplier's sub tier sources. NAS-412 may be used as a guide to establish and implement the supplier's FOD program. The supplier's FOD program is subject to on-site review and approval by Terminal & Cable.

11- OEM -Certificate of Compliance:

Each shipment of material or services supplied on this contract shall be accompanied by an Original Manufacturers Certificate of Compliance (C of C) including the following information, as a minimum.

- 1.) Name and address of manufacturing or processing location.
- 2.) TC's Purchase order number.
- 3.) Line-item number.
- 4.) Part number, quantity, drawing/specification number, revision, specification number, revision number and unit of measure.
- 5.) Serial number, date code, lot numbers, any unique identification of each part/lot.
- 6.) Country of Origin.
- 7.) A statement of conformance to all order requirements including relevant technical data.
- 8.) Material analysis report, where applicable.
- 9.) Must be signed and dated by an official authority of the company.

12- Franchise distribution:

must provide a Certificate of Conformance including the following as a minimum.

- 1.) Name and address of distributor supplying materials.
- 2.) TC's Purchase order number.
- 3.) Line-item number.
- 4.) Part number, drawing number, revision, specification number and revision number.
- 5.) Serial number, date code, lot numbers, any unique identification of each part.
- 6.) Country of Origin.
- 7.) A statement of conformance to all order requirements including relevant technical data.
- 8.) Must be signed and dated by an official authority of the company.

13- Shipping Documents:

Each shipment shall include one (1) reproducible set of Commercial shipping documents and a packing list including the following:

- 1.) P.O. number
- 2.) Part number
- 3.) Description
- 4.) Qty ordered, specifying the unit of measurement.
- 5.) Qty shipped, specifying the unit of measurement.
- 6.) Date of shipment.

14- COD shipments:

COD shipments are NOT accepted by Terminal & Cable. Make arrangements for payment prior to delivery date preferably at order entry. COD shipments will be refused at receiving and supplier will be responsible for the cost of freight, unless specified on the PO.

15- Material Traceability:

The supplier shall establish a system for identification, traceability and control of materials, parts and assemblies from acquisition through fabrication, assembly, test and delivery. The system shall provide for the ready identification of suspect lots when individual items are found discrepant.

16- Packaging:

Components shall be packaged as specified by the part number ordered or as stated on the TC purchase order. Components must be packaged in appropriate packaging to protect them from ESD, physical damage and to ensure cleanliness. Bulk packaging is not acceptable for EEE components and requires written approval by Terminal & Cable prior to shipping components.

17- Conflict Minerals Provision:

Suppliers of materials to Terminal & Cable shall disclose whether any conflict minerals, as defined in Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act, will be contained in or necessary to the functionality or production of any of the products, parts, or materials delivered to Terminal & Cable under the purchase order. In the event such minerals are used, the supplier shall immediately notify Terminal & Cable and identify the products, the conflict mineral used, and the country of origin of the conflict mineral(s). If the country of origin is undermined, supplier shall provide a description of the measures taken to discover the change of custody of such materials to the original smelter or refiner. If the conflict mineral(s) originated from the Democratic Republic of the Congo, "DRC" or adjoining countries, identify the smelter or refiner and whether they are certified as conflict-free (e.g., EICC certified).

18- Mercury Free Clause

Mercury or mercury containing compounds shall not be intentionally added or come in direct contact with hardware or supplies furnished under this contract.

Supplier shall ensure that persons are aware of, their contribution to product or service conformity, their contribution to product safety and the importance of ethical behavior.

19- Expected Supplier Performance:

Terminal & Cable has set supplier performance goals for on time delivery and quality of 100%. TC will monitor the performance of all suppliers each month. These goals shall be incorporated into the suppliers processing to ensure the expectations are met for each delivery. When the planned or agreed upon goals are not met, improvement plans and/or corrective action(s) will be required.

20- First Article Inspection Report, FAIR:

A full first article report is required on request on the first initial production, of fabricated items made to print, and the first part/article produced for this procurement. The supplier shall conduct, document and report inspections and tests that verify conformance to all requirements. When multi-cavity molds/dies are used, a first article is required for each individual cavity.

The FAIR may be documented on the supplier's format as long as it includes all the following information. The supplier's report shall include, as a minimum:

- 1.) Purchase order number, part number, part revision, serial number, the drawing and specification requirement, including tolerances.
- 2.) The tool/method used to perform each inspection.

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- 3.) The actual measured and accepted inspection and test results. Variable data requirements must be listed for each numerical result at each location specified on the part drawing. If the measurement is specified in 4 places, 4 measurements must be listed.
 - 4.) Raw material certifications of all materials used.
 - 5.) The actual accepted first article specimen(s) identified as “first article inspection sample” traceable to the report’s measured data.
 - 6.) Functional test data results.

A new FAIR is required from the supplier when any one of the following conditions exist or occur:

- a) The supplier has never provided this product or service before.
- b) A change in manufacturing source(s), process(es), inspection method(s), location of manufacture, tooling, or materials that can potentially affect fit, form, or function.
- c) A change in numerical control program or translation to another media that can potentially affect fit, form, or function.
- d) A natural or man-made event, which may adversely affect the manufacturing processes.
- e) An implementation of corrective action required to complete a previous FAI.
- f) A lapse in production for two years shall require an update for any characteristic that may be impacted by the inactivity. This lapse is from the completion of last production operation to the actual restart of production.

Unless specific frequency is specified otherwise on the purchase order.

- g) Following the incorporation of a design characteristic change affecting form, fit or function change for the product or service. A delta FAIR is required.

AS9102 First Article: The First Article must comply with AS9102 Aerospace First Article Inspection Requirement and must be documented on the AS9102 forms.

Consumable or Perishable Product/Time and Temperature Sensitive Material: Time sensitive material shall be identified by cure date, manufacturing date, expiration date, shelf life, etc. The outer most shipping container of temperature sensitive material must be marked to indicate temperature storage requirement. Time and temperature storage conditions must be attached to the packing sheet and accompany each shipment.

Shelf -life of materials. All product ordered by TC shall be delivered with a minimum of 75% remaining shelf life. Exceptions shall be approved by TC prior to shipping product. Products not meeting this requirement must be accepted for return by the supplier.

SDS, Safety Data Sheets are required with each shipment of materials.

Certificate of Compliance for Solder Alloys and Flux must state the applicable industry standard, as follows.

J-STD-004, requirements for Soldering Fluxes

J-STD-005, requirements for Soldering Paste

J-STD-006, requirements for Electronic Grade Solder Alloys and Fluxed and Non-Fluxed Solid Solders for Electronic Soldering Applications.

21- Special Process Approval:

When the TC purchase order requires special processing in accordance with specifications designated by TC, the supplier and any sub-tier contractor performing special processes (i.e., plating, welding, brazing, etc.) shall have special process approval, in writing, by TC. Suppliers and sub-tier contractors shall utilize qualified procedures, personnel and equipment to do the work.

The supplier shall provide TC with certification stating the specification number, revision, drawings, process requirements, inspection/verification instructions and other relevant technical data.

22- Test Reports:

Actual functional test reports referencing contract number, contractors name and address and/or independent laboratories' name and address, part number, part name, lot/date code, serial number if applicable date and run time if applicable, must accompany each shipment. An authorized contractor's representative shall validate all reports, by either an inspection stamp or signature and title and date.

23- Test Specimens:

Test specimens for design approval, inspection/verification, investigation, or auditing may be requested and shall include the test/production method, number, and storage conditions.

Calibration: The supplier's calibration system shall conform to the requirements of ANSI/NCSL Z540 and ISO/IEC 17025 and is subject to review and approval at all times by TC.

Calibration Report: The contractor shall provide a calibration certificate supporting the Calibration services performed. The certificate shall include as a minimum:

- 1.) Statement certifying traceability to National Standards.
- 2.) Listing of standard(s) used to perform test(s) with last calibration performed date(s) and next calibration due date.
- 3.) Name of contractor performing calibration.
- 4.) Condition received. It is required that the calibration lab notify the TC calibration coordinator in writing and verbally of any equipment found "out of calibration" at time services are rendered.
- 5.) Statement of measurement uncertainty and ambient environmental conditions at the time of the calibration.

Government Source Inspection is required. Terminal & Cable is responsible to provide Government contact information.

Customer Source Inspection: Terminal & Cable is responsible to inform the supplier of TC's customer request for inspection and shall make arrangements with the supplier.

TC Source Inspection: Terminal & Cable shall list this clause requirement when TC deems it necessary to inspect product at the supplier site prior to shipping to TC.

Qualified Personnel: Personnel performing work on the specified product must be currently certified to the following workmanship standard.

IPC-A-610 Acceptability of Electronic Assemblies, Class 2 or 3.

IPC-A-620 Requirements and Acceptance for Cable and Wire Harness assemblies

J-STD-001 Requirements for Soldered Electrical and Electronic Assemblies.

NASA-STD-8739.1 Workmanship standard for Staking and Conformal Coating of PWBs and electronic assemblies.

NASA-STD-8739.2 Workmanship standard for Surface Mount Technology

NASA-STD-8739.3 Workmanship standard for Soldered Electrical connections.

NASA-STD-8739.4 Workmanship standard for Crimping, Interconnecting cables, Harness, and Wiring.

Change Control History

Revision	Date	Change
00	2024/02/28	Creation