## Revision/Change Record

<table>
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<tr>
<th>REV</th>
<th>DATE</th>
<th>AUTHORIZATION</th>
<th>CHANGE</th>
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<tbody>
<tr>
<td>NEW</td>
<td>7-5-72</td>
<td>See Title Page</td>
<td>Original Issue</td>
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<td><strong>Cover sheet and RCR Page are electronic reproductions of the originals.</strong></td>
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<td><strong>Minor editorial changes.</strong></td>
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<td>A</td>
<td>5/8/02</td>
<td>Prep: R. L. Billett</td>
<td>2.0 Deleted reference to Rule 41 of Uniform Freight Classification.</td>
<td>All</td>
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<td>Materials Engineering</td>
<td>3.2.1.2 changed to require a minimum length of 100 feet per reel or spool.</td>
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<td></td>
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<td>Appv: F. W. Argus</td>
<td>3.4.1 Deleted paragraph and reference to Rule 41 of Uniform Freight Classification.</td>
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<td>Materials Engineering</td>
<td>3.5 Revised to split into 3 subparagraphs.</td>
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<td>3.5.1 Added requirements to include lot identification and quantity in marking.</td>
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<td>6.1 Added paragraph.</td>
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PACKAGING SPECIFICATION

ELECTRICAL CABLE, WIRE, AND HARNESS ASSEMBLIES

1.0 SCOPE

1.1 Scope. This specification defines requirements for preservation, packaging, packing, and container marking of electrical cable and wire, and electrical harness assemblies on reels, spools, in coils, or in other containers.

2.0 APPLICABLE DOCUMENTS

None
3.0 REQUIREMENTS

3.1 General Requirements. Methods, materials, and containers shall be used for packaging to insure that the item requirements specified in the purchase order are maintained during transportation, handling, and storage.

3.1.1 Cleaning. Items shall be clean and dry prior to packaging. When cleaning is required, it shall be accomplished by any process, or combinations of processes, which will thoroughly clean the items without causing damage.

3.1.2 Preservation. When applicable, ends of cables or wire shall be sealed to prevent entry of moisture, in accordance with good commercial practice. All cable and harness connectors, not equipped with metal covers, shall be capped or plugged with plastic caps; or they shall be wrapped or bagged in plastic material taped or tied in place, and then wrapped with cushioning material.

3.1.3 Minimum Coil Diameters. Inside coil diameters, or reel or spool diameters shall not be smaller than the minimum safe allowable bending diameter for the item.

3.2 Unit Package.

3.2.1 Cable and Wire.

3.2.1.1 Unit Package Description. Cable and wire shall be coiled or be furnished in a reel, spool, or reel or spool-type package. When coiling is used, the coil shall be wrapped or bagged either in plastic or paper in accordance with good commercial practice, or placed in a fiberboard container.

3.2.1.2 Unit Package Quantity. Unless otherwise stated in the procurement documentation each coil, reel, or spool shall contain only one continuous length of material with a minimum length of 100 feet.

3.2.1.3 Reel and Spool Flanges. Flanges of reels or spools shall always exceed the outside diameter of the coiled cable or wire.

3.2.1.4 Tying. Cable or wire on reels or spools shall be secured to prevent the ends from unwinding. Coils shall be secured at three places equally spaced around the diameter of the coil. When tape is used, it shall not bleed, leave residue, or damage the item when removed. When steel strapping is used, there shall be adequate cushioning between it and the item.
3.2.2 Cable and Harness Assemblies.

3.2.2.1 Unit Package Description. Cable and harness assemblies shall be packaged in suitable unit containers to protect them during ordinary handling and shipping.

3.2.2.2 Unit Package Quantity. Unit packages shall contain one part or assembly.

3.2.2.3 Configuration. Items shall be packed, with sufficient blocking or cushioning as required, to retain their approximate design configuration. If the container size would be impractical for handling, and if the item will allow coiling without damage, the items may be coiled, to reduce the cube, and secured at a minimum of three places approximately equally spaced around the diameter of the coil. In all cases, items shall be packed such that wires are not strained at spliced areas, or at processed termination points. Kinking shall not be allowed.

3.3 Intermediate Container. The use of intermediate containers is optional unless different item numbers (sizes, types, or classes, etc.) or dash numbers are consolidated for one shipment. When used unit packages containing identical items for this type of shipment shall be uniformly loaded into a suitable fiberboard container. Voids shall be filled with a clean cushioning material. The gross packed weight for intermediate containers shall not exceed their design specification.

3.4 Shipping Containers. Shipping containers used shall protect their contents during anticipated handling and shipping, and shall meet the minimum packaging requirements for the mode of transportation used.

3.5 Marking. All containers shall be legibly and durably labeled, tagged, or marked to show the following information.

3.5.1 Unit Package.

(a) Manufacturer, TRW or Military Specification Part Identification Number
(b) TRW Inventory Control Number (when applicable)
(c) Manufacturer’s name, initials, or trademark
(d) Nomenclature
(e) Manufacturing lot identification. For purposes of this requirement a manufacturing lot of cable or wire shall consist of single manufacturing lots of center conductor, jacket raw material, and other required materials including dielectric material, shields, etc.
(f) Total quantity contained within package
3.5.2 Intermediate Containers (when used)
   (a) Manufacturer, TRW or Military Specification Part Identification Number
   (b) TRW Inventory Control Number (when applicable)
   (c) Purchase Order or Contract Number
   (d) Nomenclature
   (e) Quantity

3.5.3 Shipping Container
   (a) Purchase Order Number
   (b) Manufacturer's name or identifying information
   (c) Shipping documentation (packing slips) shall indicate the quantity of each item contained in the shipment if not included in the shipping container marking

3.6 Workmanship. The packaging, packing, and marking shall be performed in such a manner as to be of uniform good quality and free from defects that would impair service life and appearance of the items.
4.0 QUALITY ASSURANCE PROVISIONS

4.1 Inspection Responsibility. The supplier is responsible for the performance of all inspection requirements as necessary to ensure conformance to this specification. The buyer reserves the right to perform any inspection where such inspections are deemed necessary to assure that materials and processes conform to prescribed requirements.

4.2 Acceptance Inspection Procedures. Inspection shall be as specified herein. Shipments which do not conform to the requirements specified herein shall be rejected.

4.2.1 Visual Examination. Packages shall be examined to verify that the package, packaging materials, and marking are in accordance with the requirements specified in Section 3 of this specification.

5.0 PREPARATION FOR DELIVERY

Not applicable.

6.0 NOTES

6.1 Changes from Previous Issue. A vertical line in the right hand margin is used in this revision to identify the location of significant changes with respect to the previous issue.