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August 2015

# Specification RW-2500-12 TE 108-121009

# TMS - CABLE MARKERS TMS-CM

Approved Signatories: This document is electronically reviewed and approved by TE Connectivity.

TE CONNECTIVITY, SWINDON, UK

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## 1. REVISION HISTORY

| Revision<br>Number | Description of change | Date                    | Incorporated<br>By |
|--------------------|-----------------------|-------------------------|--------------------|
| 1                  | AFC 256               | 14/04/04                | Alan Kean          |
| 2                  | AFC 406               | 21/02/06                | Steve Rowland      |
| 3                  | Live in DM.TEC        | 24/06/10                | Auto               |
| 4                  | Refer to PCN          | 16/07/14 issued 08-2015 | Lee Smith          |

### 2. SCOPE

This specification sheet, when used with RW-2500, defines the product characteristics and performance of TE Connectivity TMS Cable Marker.

The printing system developed for this marker sleeve is now obsolete. TE can only guarantee the physio-chemical nature of the product, and not any marking applied using non-recommended printing systems. Where non-standard systems are used, customers are required to carry out their own validation testing.

## 3. REQUIREMENTS

### 3.1. Material

The markers shall be fabricated from irradiated, thermally-stabilized, modified polyolefin compound. The material shall be homogeneous and essentially free from flaws, defects, bubbles, cracks, or inclusions

### 3.2. Color

The sleeves shall be supplied in white, unless otherwise specified.

## 3.3. Properties

The sleeves shall meet the requirements of Table 2.

#### 3.4. Form

The markers shall be supplied as a continuous length of carrier strip which has been specifically punched to size, in accordance with Table 1.

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## 4. QUALITY ASSURANCE

## 4.1. Qualification Tests

Qualification tests are those performed on markers and marker material submitted for qualification as a satisfactory product and shall consist of all tests listed in this specification.

#### 4.2. Acceptance Tests

Acceptance tests are those performed on markers submitted for acceptance under contract. Acceptance tests shall consist of the following: dimensions, heat shock (RW-2500).

#### 4.3. Test Specimens

Test specimens shall be individual TMS-CM, detached from the carrier strip. Where RW-2500 is referenced as a test method, the term "marker" or "specimen" shall be understood to mean "TMS-CM".

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## **CONFIGURATION OF CARRIER**



TMS-CM ¼ inch size

TMS-CM ½ inch size

**Dimensions in inches (nominal)** 

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## TABLE 1

## **Cable Marker Dimensions**

| Part Description | Figure Number | Thickness in Inches | Number of Holes |
|------------------|---------------|---------------------|-----------------|
| TMS-CM-1/4-4H    | 4             | .025                | 4               |
| TMS-CM-1/2-4H    | 5             | .025                | 4               |
| TMS-CM-1/4-4H    | 6             | .025                | 4               |
| TMS-CM-1/2-6H    | 7             | .025                | 6               |



Figure 4 TMS-CM-1/4-4H



Figure 6 TMS-CM-1/2-6H





Figure 5 TMS-CM-1/2-4H



Figure 6 TMS-CM-1/2-6H

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## TABLE 2

## Requirements

| PROPERTY  | UNIT      | REQUIREMENTS                     | RW-2500<br>TEST METHOD   |
|---|-----------|----------------------------------|--|
| PHYSICAL<br>Dimensions                                    | Inches    | In accordance with Table 1       | RW-2500<br>Section 4.3.1.2   |
| Tensile Strength  | MPa (psi) | 10.3 (1500) minimum              | ASTM D 638 RW-2500   |
| Ultimate Elongation                                       | Percent   | 200 minimum                      | Section 4.3.2.2<br>1/8" wide die cut<br>specimens<br>2 inches/ min strain<br>rate. |
| Specific Gravity  |           | 1.48 maximum                     | ASTM D 792   |
| Low Temperature Flexibility<br>4 hours at -55°C (-67°F)   |           | No cracking                      | Note 1<br>RW-2500<br>Section 4.3.5.2   |
| Heat Shock<br>4 hours at 250°C (482°F)                    |           | No dripping, flowing or cracking | Note 2<br>RW-2500<br>Section 4.3.6.2   |
| Heat Aging<br>168 hours at 175°C (347°F)                  |           | No cracking                      | Note 2<br>RW-2500<br>Section 4.3.7.2   |
| CHEMICAL<br>Corrosive Effect<br>16 hours at 175°C (347°F) |           | No corrosion                     | ASTM D 2671<br>Procedure A<br>RW-2500<br>Section 4.3.13.2                          |
| Limiting Oxygen Index                                     | Percent   | 25 minimum                       | ASTM D 2863  |
| Fungus Resistance   |           | Rating of 1 or less              | ASTM G 21  |
| Water Absorption<br>24 hours at 23°C (73°F)               | Percent   | 0.5 maximum                      | ASTM D 570   |

Notes

1.In accordance with Section 4.3.5.2 except that specimens shall be bent 90° over a 1-inch dia. mandrel.

2.Specimens shall be bent 90° over a 5/16-inch dia. mandrel.

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#### Как с нами связаться

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