



**Specification RW-2500-12  
TE 108-121009**

**TMS - CABLE MARKERS  
TMS-CM**

**Approved Signatories:**

**This document is electronically reviewed and approved by TE Connectivity.**

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TE CONNECTIVITY, SWINDON, UK

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**1. REVISION HISTORY**

| Revision Number | Description of change | Date                    | Incorporated 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.

#### **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".

**CONFIGURATION OF CARRIER**

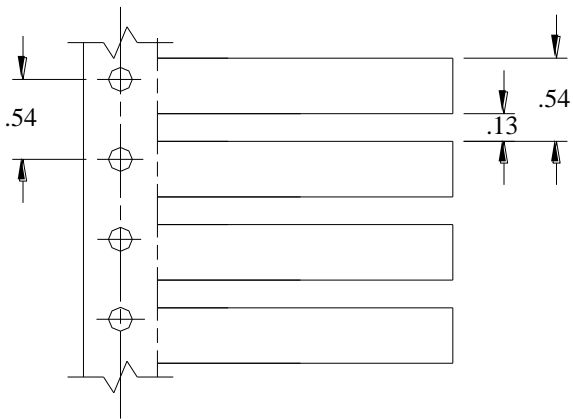


Figure 1  
TMS-CM ¼ inch size

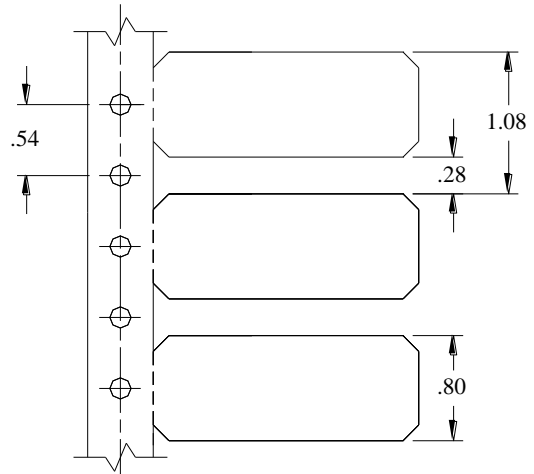


Figure 2  
TMS-CM ½ inch size

**Dimensions in inches (nominal)**

**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               |

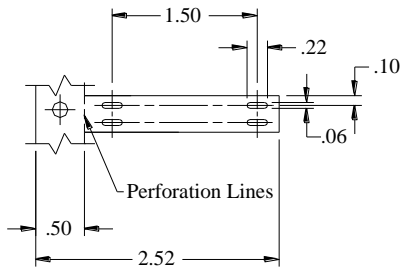


Figure 4  
TMS-CM-1/4-4H

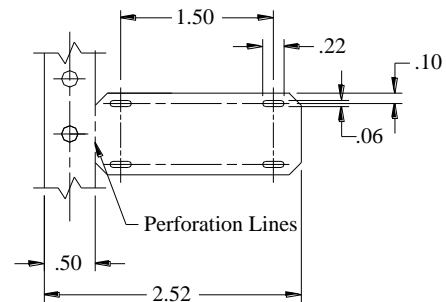


Figure 5  
TMS-CM-1/2-4H

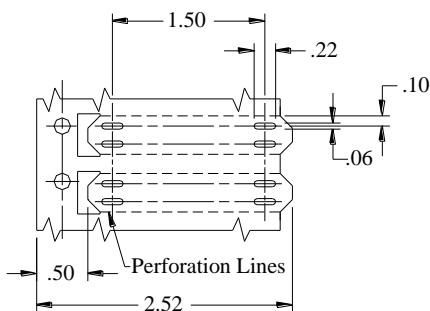


Figure 6  
TMS-CM-1/2-6H

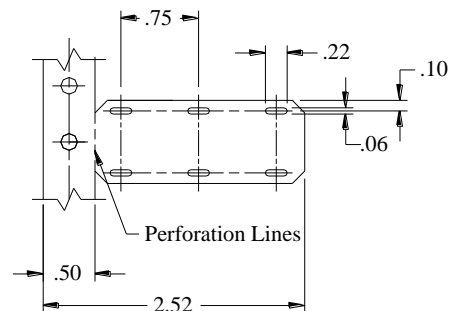


Figure 6  
TMS-CM-1/2-6H

**Dimensions in inches (nominal)**

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**TABLE 2**  
**Requirements**

| PROPERTY  | UNIT      | REQUIREMENTS                     | RW-2500 TEST METHOD   |
|---|-----------|----------------------------------|---|
| <b>PHYSICAL</b>   |           |                                  |   |
| Dimensions  | Inches    | In accordance with Table 1       | RW-2500 Section 4.3.1.2   |
| Tensile Strength  | MPa (psi) | 10.3 (1500) minimum              | ASTM D 638 RW-2500 Section 4.3.2.2<br>1/8" wide die cut specimens<br>2 inches/ min strain rate. |
| Ultimate Elongation                                     | Percent   | 200 minimum                      |   |
| 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 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 Section 4.3.6.2   |
| Heat Aging<br>168 hours at 175°C (347°F)                | ---       | No cracking                      | Note 2<br>RW-2500 Section 4.3.7.2   |
| <b>CHEMICAL</b>   |           |                                  |   |
| Corrosive Effect<br>16 hours at 175°C (347°F)           | ---       | No corrosion                     | ASTM D 2671 Procedure A<br><br>RW-2500 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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- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
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- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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