

**Specification RW-2500-13
TE 108-121010**

**HTMS CABLE MARKERS
HTMS-CM (HTTMS-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 Number	Description of change	Date	Incorporated By
1	Live in DM.TEC	24/06/10	Auto
2	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 HTMS (HTTMS) 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 polyvinylidene fluoride 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 HTMS-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 "HTMS-CM".

CONFIGURATION OF CARRIER

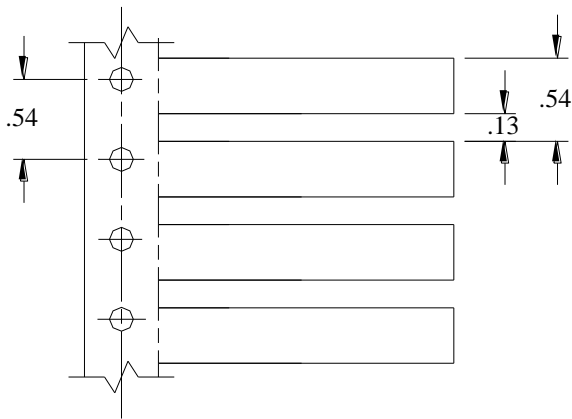


Figure 1
1/4 inch size

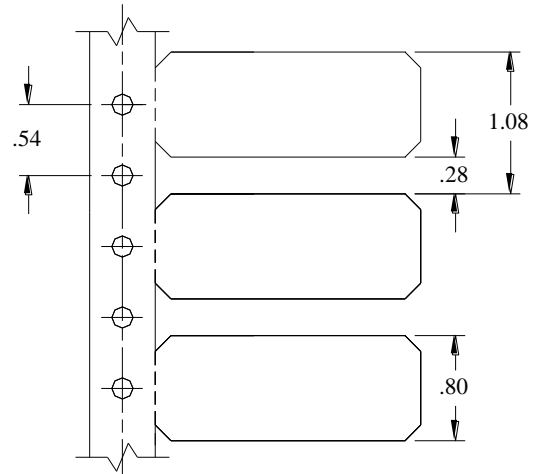


Figure 2
1/2 inch size

Dimensions in inches (nominal)

TABLE 1
Cable Marker Dimensions

PART DESCRIPTION	FIGURE NUMBER	THICKNESS IN INCHES	NUMBER OF HOLES
HTMS(HTTMS)-CM-1/4-4H	3	.020	4
HTMS(HTTMS)-CM-1/2-4H	4	.020	4
HTMS(HTTMS)-CM 1/2-6H	5	.020	6

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SIZE AND HOLE CONFIGURATIONS

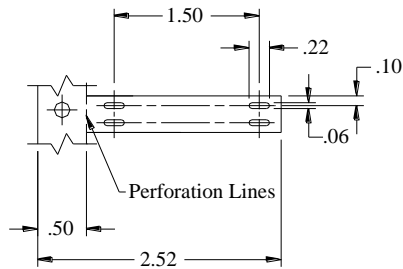


Figure 3
HT-TMS-CM-1/4-4H

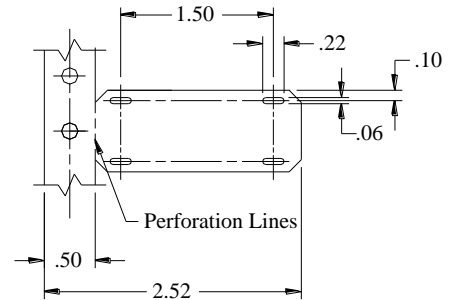


Figure 4
HT-TMS-CM-1/2-4H

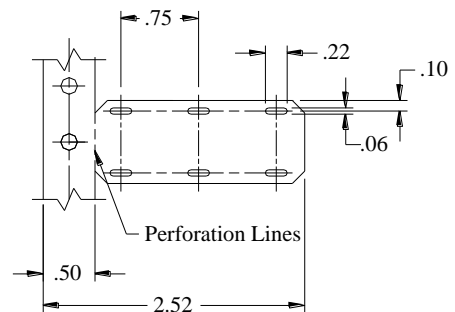


Figure 5
HT-TMS-CM-1/2-6H

Dimensions in inches (nominal)

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TABLE 2
Requirements

PROPERTY	UNIT	REQUIREMENTS	RW-2500 TEST METHOD
PHYSICAL			
Dimensions	Inches	In accordance with Table 1	RW-2500 Section 4.3.1.2
Tensile Strength	MPa (psi)	(20.7) 3000 minimum	ASTM D 638
Ultimate Elongation	Percent	100 minimum	RW-2500 Section 4.3.2.2 1/8" wide die cut specimens 2 inches/min.
Specific Gravity	---	1.8 maximum	ASTM D 792
Low Temperature Flexibility 4 hours at -55°C (-65°F)	---	No cracking	Note 1 RW-2500 Section 4.3.5.2
Heat Shock 4 hours at 275°C (527°F)	---	No dripping, flowing or cracking	Note 2 RW-2500 Section 4.3.6.2
Heat Aging 168 hours at 225°C (437°F)	---	No cracking	Note 2 RW-2500 Section 4.3.7.2
Vacuum Outgassing			RW-2500 Section 4.3.18
• TML (Total Mass Loss)	Percent	1.0 maximum	
• VCM (Volatile Condensable Material)	Percent	0.1 maximum	ASTM E 595
CHEMICAL			
Corrosive Effect 16 hours at 200°C (392°F)	---	No corrosion	ASTM D 2671 Procedure A RW-2500 Section 4.3.13.2
Limiting Oxygen Index	Percent	40 minimum	ASTM D 2863
Fungus Resistance	---	Rating of 1 or less	ASTM G 21
Water Absorption 24 hours at 23°C (73°F)	Percent	0.5 maximum	ASTM D 570

Notes:

1. In accordance with RW-2500 Section 4.3.5.2 except that specimens shall be bent 90 degrees over a 1-inch mandrel.

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

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