TMS-CT

Military Grade Continuous Tube

HEAT SHRINK IDENTIFICATION SYSTEM

Technical Datasheet

TTDS-268 Revision 4 - April 2020

TMS-CT Military Grade, Heat Shrink Identification Marker Sleeving for the identification of wires and cables.

Made from durable, flame retarded, radiation cross linked heat shrinkable polyolefin. TMS-CT is a thin wall, light weight, fast recovery 3:1 shrink ratio sleeve*, allowing the customer to cover a wide range of cable diameters

Suitable for a wide variety of applications including, aerospace, military, industrial, transport and energy. Printed marker sleeves meet the requirements of AS 5942 and MIL 202 Method 215 when used as a complete system, as recommended by TE Connectivity. Refer to TE document 411-121005 IDENTIFICATION PRINTER PRODUCT RIBBON MATRIX for the recommended printer/product/ribbon combinations.

TMS-CT meets the material requirements of SAE-AMS-DTL-23053/5 Class 1.

TMS-CT Heat Shrink Identification Marker Sleeving is available as part of a complete identification system. The system comprises specific printers, thermal transfer ribbons and WINTOTAL software.

*except 1-1/2 and 2 inch TMS-CT which is 2:1

TMS-CT MILITARY GRADE
HEAT SHRINK CABLE IDENTIFICATION SYSTEM

Features

- Self-extinguishing, non-flame propagating.
- Resistant to key Military and Aerospace fluids (defined by RW-2511).
- Military grade performance.
- Can be laser marked for superior performance.
- Pre-termination Cable Identification.
- Sleeve diameters from 2.4mm to 50.8mm (3/32 to 2inch).
- TMS-CT 3:1 Shrink ratio (except 38.1 and 50.8mm which are 2:1).
- More open profile for easier use.

Product Compliance

TMS-CT fully complies with 2011/65/EU RoHS II directive, and Regulation (EC) number 1907/2006 (REACH)

Further information and a downloadable declaration covering RoHS and REACH compliance can be found at the TE Product Compliance Support Centre:

http://www.te.com/usa-en/utilities/product-compliance.html

Temperature Rating

- –55°C to 135°C (-67°F to 275°F)

Shelf Life

- Refer to TE document 408-121006 Cable Identification Shelf Life Document

Industry

Specifications / Approvals

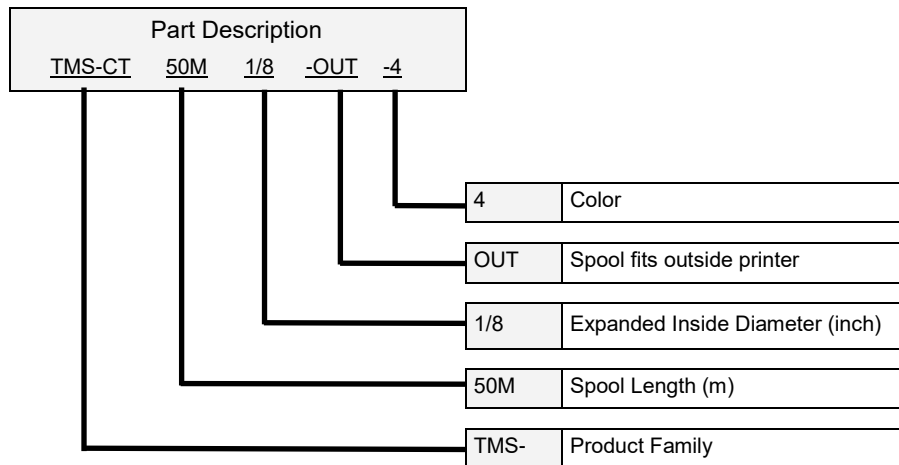|	
TE Connectivity Standard	RW-2511 Specification for TMS-CT products.
Rail	EN45545-2, Railway applications - Fire protection on railway vehicles, Part 2: Requirements for fire behaviour of materials and components Fire Hazard Classification 1, 2 and 3, in accordance with requirement set R24.
	NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, Fire protection requirements, Interior Fire Propagation Resistance.
	Federal Railroad Administration, DOT, Appendix B to Part 238, Test Methods and Performance Criteria for the Flammability and Smoke Emission Characteristics of Materials used in Passenger Cars and Locomotive Cabs.
	SHAZAINENNSHI, Japan Railway Rolling Stock & Machinery Association 2003 Classification 'Flame Retardant' Serial number 2015-163K.
Military	SAE-AMS-23053/5 Insulation Sleeving, Electrical, Heat Shrinkable, Polyolefin, Semi-Rigid, Crosslinked.
	• TMS-CT Class 1 Material performance
Industrial	CSA Standard C22.2 No 198.1 Class Number 9032-01 INSULATING DEVICES AND MATERIALS-Insulating Tubing and Sleeving, File reference 31929. TMS-CT uses the same tube as TMS-SCE.
	UL Certification, Tubing, Extruded Insulating Component File reference YDPU2.E35586. TMS-CT uses the same tube as TMS-SCE

Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function. Further details can be found in TE standard RW-2511.

/// TTDS-268 TMS-CT TECHNICAL DATA SHEET

Part Description

TMS-CT 50M 1/8 -OUT -4

4	Color
OUT	Spool fits outside printer
1/8	Expanded Inside Diameter (inch)
50M	Spool Length (m)
TMS-	Product Family

Available Options

Spool Size	OUT	Spool does not fit inside printers, recommend TE Connectivity PRINTER-UNIVERSAL-REEL-HOLDER, Part Number EC9926-000, reference TTDS-259
Colors	Standard	Yellow	White
	Code	4	9
	Other colors available on request		
		Brown	Red	Orange	Green	Blue	Violet	Grey	Black
		1	2	3	5	6	7	8	0

To maximise print contrast, colors are based on pastel shades.

Ordering Example: TMS-CT-50M-3/16-OUT-9

i.e. Product Family, Spool Length, Expanded Inside Diameter, OUT and Color

Ordering Information

Ordering description	Inside diameter				Recommended cable diameter use range				Spool lengths m (ft)
	As supplied (minimum)		After recovery (Maximum)						
	mm	inches	mm	inches	mm		inches		
TMS-CT - <spool length> -3/32 - OUT- <Color>	2.4[1]	0.094	0.8	0.03	0.90 to 1.90		0.035 to 0.075		50 (164)
TMS-CT - <spool length> -1/8 - OUT- <Color>	3.2[1]	0.125	1.1	0.04	1.20 to 2.60		0.047 to 0.102		50 (164)
TMS-CT - <spool length> -3/16 - OUT- <Color>	4.8[1]	0.189	1.6	0.06	1.70 to 3.84		0.067 to 0.151		50 (164)
TMS-CT - <spool length> -1/4 - OUT- <Color>	6.4[1]	0.250	2.1	0.08	2.20 to 5.10		0.087 to 0.201		50 (164)
TMS-CT - <spool length> -3/8 - OUT- <Color>	9.5[1]	0.375	3.2	0.13	3.30 to 7.60		0.130 to 0.299		50 (164)
TMS-CT - <spool length> -1/2 - OUT- <Color>	12.7[1]	0.500	4.2	0.17	4.30 to 10.2		0.169 to 0.402		50 (164)
TMS-CT - <spool length> -3/4 - OUT- <Color>	19.1[2]	0.750	6.4	0.25	6.50 to 15.3		0.256 to 0.602		50 (164)
TMS-CT - <spool length> - 1 - OUT- <Color>	25.4[2]	1.000	8.5	0.33	8.60 to 20.3		0.339 to 0.799		50 (164)
TMS-CT - <spool length> - 1-1/2- OUT- <Color>	38.1[3]	1.500	19.1	0.75	19.2 to 30.5		0.756 to 1.201		50 (164)
TMS-CT - <spool length> - 2 - OUT- <Color>	50.8[3]	2.00	25.4	1.00	25.5 to 40.6		1.004 to 1.598		50 (164)

[1] Recommended ribbon width 40mm— 2000P-RIBBON-4TT-NAR, Part No. 277493-000

[2] Recommended ribbon width 60mm— 2000P-RIBBON-4TT-MED, Part No. 893803-000

[3] Recommended ribbon width 110mm— TMS-RJS-RIBBON-4RPSCE, Part No. 557721-000

Check TE Document 411-121005 for full and current details

Printer Information

Print quality and print performance can only be guaranteed when specific TE printer and ribbons are used.

The current list of printers and ribbons can be found in TE document 411-121005 'Identification Printer Product Ribbon Matrix'. This document can be found in 'Access Our Tools':

http://www.te.com/usa-en/utilities/access-product-tools-and-resources.html
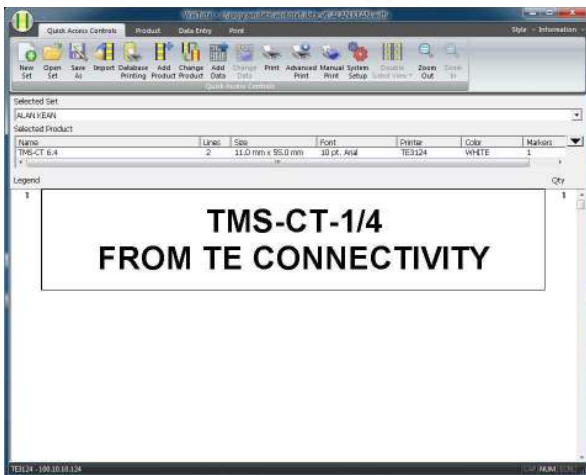
Software

WINTOTAL software, available to download for a 14 day evaluation period from the Identification Printer Software page:

http://www.te.com/usa-en/products/identification-labeling/printers-software.html

Contact a TE representative for further information

www.te.com/rail