

TMS-SCE and TMS-SCE-2X

HEAT SHRINK IDENTIFICATION SYSTEM

Technical Datasheet

TTDS-023 Revision 9 - May 2021

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

Made from durable, flame retarded, radiation cross linked heat shrinkable polyolefin. Supplied in 'ladder format', sleeves are presented for ease of printing and kitting.

TMS-SCE is a thin wall, light weight, fast recovery 3:1 shrink ratio sleeve, allowing the customer to cover a wide range of cable diameters.

TMS-SCE-2X is a thicker, rugged wall, 2:1 shrink ratio sleeve, which can aid with handling and installation.

Suitable for a wide variety of applications, including aerospace, military, industrial and energy. Marker sleeves meet the mark permanence requirements of AS5942 and MIL 202 Method 215

TMS-SCE meets the material performance requirements of the AMS SAE DTL 23053/5 specification. TMS-SCE-2X sleeves are fabricated from AMS SAE DTL 23053/5 class 1 and 3 tubing.

TMS-SCE and TTMS Heat Shrink Identification products are available as part of a complete identification system. The system comprises specific printers, thermal transfer ribbons and WINTOTAL software.



TMS-SCE 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 57.15mm (3/32 to 2 1/4)
- TMS-SCE (3:1 Shrink ratio)
- TMS-SCE-2X (2:1 shrink ratio)

Temperature Rating

• -55°C to 135°C (-67°F to 275°F)

Application



Rail

Military

Industrial











Shelf Life

Specifications / Approvals

TE Connectivity Stand- RW-2511 Specification for TMS-SCE products

of materials and components

Hazard Level 1 and 2, in accordance with requirement set R24

NFPA 130 Standard for Fixed Guideway Transit and Passenger Rail Systems, Fire protection requirements,

EN45545-2, Railway applications - Fire protection on railway vehicles, Part 2: Requirements for fire behaviour

• Refer to TE document 408-121006

Product Environmental Compliance

ber 1907/2006 (REACH)

Support Centre:

• TMS-SCE fully complies with Directive (EU) 2015/863 (amendment to Annex II to EU RoHS 2 Directive 2011/65/EU), and Regulation (EC) num-

Further information and a downloadable declaration covering RoHS

and REACH compliance can be found at the TE Product Compliance

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

Cable Identification Shelf Life Document

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

SAE-AMS-23053/5 Insulation Sleeving, Electrical, Heat Shrinkable, Polyolefin, Semi-Rigid, Crosslinked.

TMS-SCE Class 1 Material performance
 TMS-SCE-2X Class 1 and 3 Material performance

CSA Standard C22.2 No 198.1 Class Number 9032-01

INSULATING DEVICES AND MATERIALS-Insulating Tubing and Sleeving,

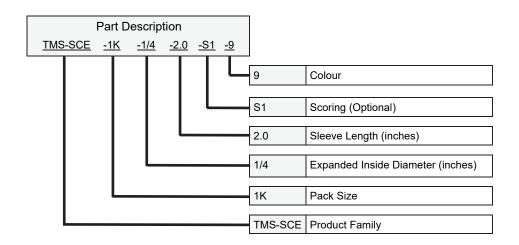
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UL Certification, Tubing, Extruded Insulating Component

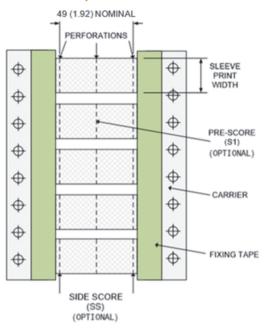
File reference YDPU2.E35586

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.





Available Options



Pre-scoring	Perforated score to produce multiple marker sleeves from each sleeve							
	1 Pre-score		Code	S1				
	2 Pre-scores		Code	S2				
	3 Pre-scores		Code	S3				
Packaging sizes		TMS-SCE		TMS-SCE-2X				
	 blank> 250 pieces	Available f	or all sizes	3/8 to 3/4				
	0.5 500 pieces	3/4 and ab	ove	All Sizes				
	1K 1000 pieces	All Sizes		All Sizes				
	2.5K 2500 pieces	3/32 to 3/8		Not available				
	5K 5000 pieces	3/32 to 3/8		Not available				
Colours	Black	Pink	Red	Orange	Yellow			
(TMS-SCE)	0	2L	2	3	4			
	Green	Blue	Violet	Grey	White			
	5	6	7	8	9			

Dimensions in mm (inches)

Specify product name, pack size (leave blank if 250 pieces are required), sleeve size, sleeve length, pre-score (leave blank if not required) and colour

Ordering Example: TMS-SCE-1K-1/4-2.0-S1-9

To maximise print contrast, colours are based on pastel shades. TMS-SCE-2X is available in White only.



Ordering Information

Ordering description		Inside diameter			Recovered	Weight	Cable Diameter					
		As supplied (minimum)		ecovery imum)	Wall Thickness (nominal)	(nominal)	Recommended use range					
		mm inches mm inches		mm	g	mm			inches			
TMS-SCE - <pack size=""> - 3/32 - 2.0 - <score> - <colour></colour></score></pack>	2.38	0.093	0.79	0.031	0.58	0.15	0.8	to	1.9	0.032	to	0.075
TMS-SCE - <pack size=""> - 1/8 - 2.0 - <score> - <colour></colour></score></pack>	3.18	0.125	1.07	0.042	0.58	0.20	1.1	to	2.6	0.044	to	0.105
TMS-SCE - <pack size=""> - 3/16 - 2.0 - <score> - <colour></colour></score></pack>	4.76	0.187	1.57	0.062	0.58	0.27	1.7	to	4.0	0.069	to	0.160
TMS-SCE - <pack size=""> - 1/4 - 2.0 - <score> - <colour></colour></score></pack>	6.35	0.250	2.11	0.083	0.58	0.35	2.3	to	5.4	0.091	to	0.215
TMS-SCE - <pack size=""> - 3/8 - 2.0 - <score> - <colour></colour></score></pack>	9.53	0.375	3.18	0.125	0.61	0.50	3.4	to	8.1	0.137	to	0.320
TMS-SCE - <pack size=""> - 1/2 - 2.0 - <score> - <colour></colour></score></pack>	12.70	0.500	4.22	0.166	0.61	0.68	4.6	to	10.7	0.183	to	0.425
TMS-SCE - <pack size=""> - 3/4 - 2.0 - <score> - <colour></colour></score></pack>	19.05	0.750	6.35	0.250	0.64	1.20	6.9	to	16.2	0.275	to	0.640
TMS-SCE - <pack size=""> - 1 - 2.0 - <score> - <colour></colour></score></pack>	25.40	1.000	8.46	0.333	0.64	1.54	9.2	to	21.5	0.366	to	0.850
TMS-SCE - <pack size=""> - 1 1/2 - 2.0 - <score> - <colour></colour></score></pack>	38.10	1.500	19.05	0.750	0.51	2.75	20.9	to	33.0	0.825	to	1.300
TMS-SCE - <pack size=""> - 2 - 2.0 - <score> - <colour></colour></score></pack>	50.80	2.000	25.40	1.000	0.64	4.73	27.9	to	44.9	1.100	to	1.770
TMS-SCE - <pack size=""> - 2 1/4 - 2.0 - <score> - <colour></colour></score></pack>	57.15	2.250	19.05	0.750	0.76	4.21	22.3	to	50.8	0.879	to	2.000
TMS-SCE-2X - <pack size=""> - 3/32 - 2.0 - <score> - <colour></colour></score></pack>	2.38	0.093	1.17	0.046	0.64	0.20	1.2	to	1.9	0.050	to	0.075
TMS-SCE-2X - <pack size=""> - 1/8 - 2.0 - <score> - <colour></colour></score></pack>	3.18	0.125	1.58	0.062	0.64	0.28	1.2	to	2.6	0.044	to	0.105
TMS-SCE-2X - <pack size=""> - 3/16 - 2.0 - <score> - <colour></colour></score></pack>	4.76	0.187	2.36	0.093	0.64	0.36	1.7	to	4.0	0.069	to	0.160
TMS-SCE-2X - <pack size=""> - 1/4 - 2.0 - <score> - <colour></colour></score></pack>	6.35	0.250	3.18	0.125	0.64	0.59	2.3	to	5.4	0.091	to	0.215
TMS-SCE-2X - <pack size=""> - 3/8 - 2.0 - <score> - <colour></colour></score></pack>	9.53	0.375	4.75	0.187	0.64	0.85	3.4	to	8.1	0.137	to	0.320
TMS-SCE-2X - <pack size=""> - 1/2 - 2.0 - <score> - <colour></colour></score></pack>	12.70	0.500	6.35	0.250	0.64	1.15	4.6	to	10.7	0.183	to	0.425
TMS-SCE-2X - <pack size=""> - 3/4 - 2.0 - <score> - <colour></colour></score></pack>	19.05	0.750	9.53	0.375	0.76	2.06	6.9	to	16.2	0.275	to	0.640





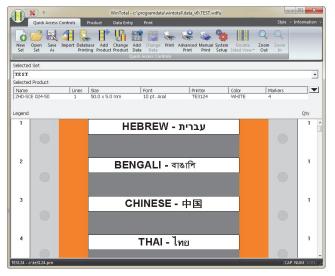


Printer Information

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 on the 'Printers, Software & Accessories' webpage:

https://www.te.com/usa-en/products/identificationlabeling/printers-software-and-accessories/printers.html? tab=pgp-story

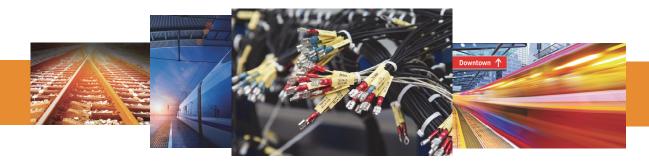


Software

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

http://www.te.com/wintotal

Contact a TE representative for further information



www.te.com

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