

TMS-SCE and TMS-SCE-2X HEAT SHRINK IDENTIFICATION SYSTEM

Technical Datasheet

TTDS-023 Revision 7 - May 2017

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.



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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)

Product Compliance

TMS-SCE 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/productcompliance.html

Shelf Life

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

Industry

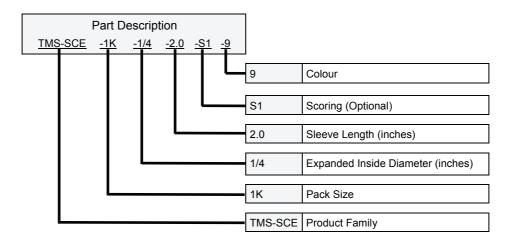


Specifications / Approvals



TE Connectivity Standard	RW-2511 Specification for TMS-SCE 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 Character- istics 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-SCE Class 1 Material performance TMS-SCE-2X fabricated from Class 1 and 3 tubing 						
Industrial	CSA Standard C22.2 No 198.1 Class Number 9032-01 INSULATING DEVICES AND MATERIALS-Insulating Tubing and Sleeving, File reference 31929 UL Certification, Tubing, Extruded Insulating Component File reference YDPU2.E35586						
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Available Options

Available	Options						49 (0.92) NOMINAL	
						_	PERFORATIONS	
Pre-scoring	Perforated sc	ore to pro	duce multiple m	arker sleeves	from each sleeve	•	──┟──╁	
	1 Pre-score		Code	S1		$ \oplus $		
	2 Pre-scores		Code	S2		Φ		
	3 Pre-scores		Code	S3		т		
0.5 500 piece 1K 1000 piec 2.5K 2500 piec 5K		TMS-SC	E	TMS-SCE-	-2X	-		
	<blank></blank>	Available for all sizes		3/8 to 3/4				
	250 pieces					\oplus		
	0.5	3/4 and above		All Sizes				
	500 pieces					$ \oplus $		
		All Sizes		All Sizes		\oplus		
						$ \Psi $		
	-	3/32 to 3/8		Not available				
						Ŷ		
	5000 pieces	3/32 to 3	3/8	Not availat	ble	\oplus		
Colours	Black	Pink	Red	Orange	Yellow		──┤╴──┤└	
(0	2L	2	3	4		SIDE SCORE	
	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.



SLEEVE

PRINT WIDTH

PRE-SCORE (S1)

CARRIER

FIXING TAPE

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Ordering description		Inside diameter						Ochla Discustor			
		As supplied (minimum)		ecovery timum)	Recovered Weight Wall Thickness		Cable Diameter Recommended use range				
		inches	mm	inches	mm	g	mm	inches			
TMS-SCE - <pack size=""> - 3/32 - 2.0 - <score> - <colour></colour></score></pack>	2.36	0.093	0.79	0.031	0.53	0.166	0.81 to 1.90	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	0.211	1.11 to 2.66	0.044 to	0.105		
TMS-SCE - <pack size=""> - 3/16 – 2.0 - <score> - <colour></colour></score></pack>	4.75	0.187	1.57	0.062	0.58	0.273	1.75 to 4.06	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	0.358	2.31 to 5.46	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	0.489	3.47 to 8.12	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	0.661	4.64 to 10.79	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	0.957	6.99 to 16.25	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	1.215	9.29 to 21.59	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	2.163	20.95 to 33.02	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	2.379	27.94 to 44.95	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	3.763	22.32 to 50.80	0.879 to	2.000		
TMS-SCE-2X - <pack size=""> - 3/32 - 2.0 - <score> - <colour></colour></score></pack>	2.36	0.093	1.17	0.046	0.64	1.270	1.90 to 0.050	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	1.750	2.66 to 0.069	0.069 to	0.105		
TMS-SCE-2X - <pack size=""> - 3/16 – 2.0 - <score> - <colour></colour></score></pack>	4.75	0.187	2.36	0.093	0.64	2.540	4.06 to 0.100	0.100 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	3.810	5.46 to 0.150	0.150 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	5.590	8.12 to 0.220	0.220 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	6.990	10.79 to 0.275	0.275 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	10.16	16.25 to 0.400	0.400 to	0.640		





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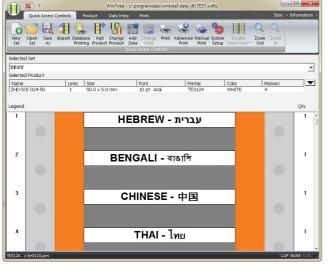


Printer Information

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-toolsand-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

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 CR9960-000
 603312-4
 607381P039
 611112-000
 617867N001
 6500750004
 CZ1420-000
 D-306-38

 770-007A303
 770-010Y106W1
 770-010Y706W1
 7771210001
 MFP-1/4"-Clear
 MFP-3/64"-Clear
 790-3012
 MHHT-4-15K2-G-104
 MIL

 LT-1-1/2-4-SP
 MIL-LT-1/2-9-STK
 MIL-LT-1/2-2-STK
 MIL-LT-3/0-SP
 MIL-LT-3/32-0-SP
 MIL-LT-3/32-6-SP
 MIL-LT-3/4-6-SP
 MIL

 LT-3/8-0-SP
 8159270001
 839602-000
 8423-6
 FP301-116-6"-Black
 FP301-1/2-48"-Black
 FP301-12-48"-Black-Hdr
 FP301-1/4-48"-Black

 FP301-1/4-48"-White-Hdr
 FP301-1-6"-Clear
 FP301-18-48"-Black-Hdr
 FP301-1/8-6"-Black
 FP301-18-6"-Black-Bulk
 FP301-316-48"-Blue

 Hdr
 FP301-316-6"-Clear
 FP301-332-6"-Black
 912229N002
 120-126-16BL
 121-001-09
 121-018-32
 121-018-40
 121-123-1-1-32BTC
 121

 123-1-1-40BTC
 121-127-09BK

 912229N002
 120-126-16BL
 121-001-09
 121-018-32
 121-018-40
 121-123-1-1-32BTC
 121