

HX-SCE

Low Fire Hazard

HEAT SHRINK IDENTIFICATION SYSTEM

Technical Datasheet

TTDS-108 Revision 8 - Jan 2026

Low Fire Hazard, Heat Shrink Identification Marker Sleeving for the identification of wires and cables.

HX-SCE heat-shrinkable identification sleeving is for use in applications where low fire hazard characteristics are critical.

HX-SCE is a thin wall, heat shrink tube, manufactured from polyolefin with e-beam technology that gives users the ability to shrink the supplied tube with no damage to material or printed text. Shrinking the tube will ensure the printed mark has a firm hold on the wire.

HX-SCE gives market leading print performance 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.

Printed sleeves meet the rail specification EN45545-2 R22/R23/R24 Hazard level 3.

HX-SCE 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

Features

- Self-extinguishing, non-flame propagating
- Zero halogen
- Low Toxic Fumes
- Low Smoke
- Excellent resistance to burning
- Resistant to key Industrial and Rail fluids
- Pre-termination Cable Identification
- Sleeve diameters from 2.4mm to 38.1mm
- 2:1 Shrink ratio

Product Compliance

- HX-SCE fully complies with 2011/65/EU RoHS II directive, and Regulation (EC) number 1907/2006 (REACH)
- Does not contain any declarable or prohibited substances from the UNIFE Railway Industry Substances List
- 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 105°C (-67°F to 221°F)

Shelf Life

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

Applications



Specifications / Approvals

TE Connectivity Standard RW-2072 Low Fire Hazard Heat Shrink Sleeving

Rail Standards

EN45545-2, Railway applications - Fire protection on railway vehicles, Part 2: Requirements for fire behaviour of materials and components
Fire Hazard Classification 3, in accordance with requirement sets R22, R23 and R24

BS 6853 Code of Practice for Fire Precautions in the Design and Construction of Passenger Carrying Trains. Vehicle CAT 1A

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

NF F 16-101 Railway Rolling Stock Fire Behaviour Choice of Material.
Classification A1

SHAZAINENNSHI, Japan Railway Rolling Stock & Machinery Association 2003
Classification 'Flame Retardant' Serial Number 2015-165K

London Underground 1-085. Fire Safety Performance of Materials

Print Performance

- MIL 202 Method 215, Resistance to Solvents
- SAE AS 5942, Marking of Electrical Insulating Materials, Adherence
- RW-2072

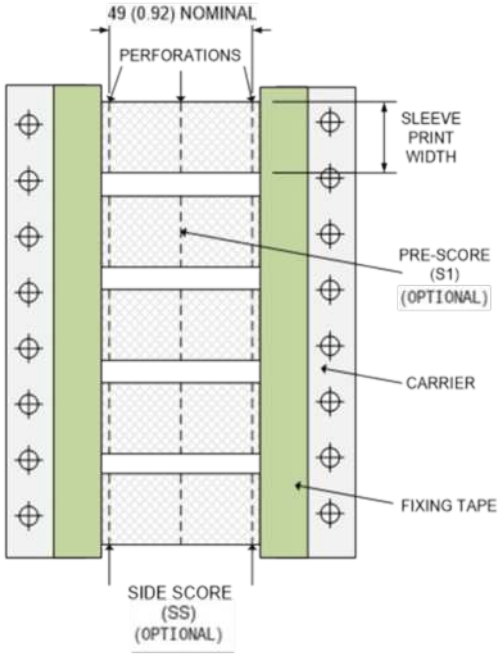
Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function. Further details can be found in TE standard RW-2072

Part Description

HX-SCE 1K -1/2 -50 -S1 -9

9	Color
S1	Scoring (Optional)
50	Sleeve Length (mm)
1/2	Printable height of marker
1K	Pack Size
HX-SCE	Product Family

Available Options



Dimensions in mm (inches)

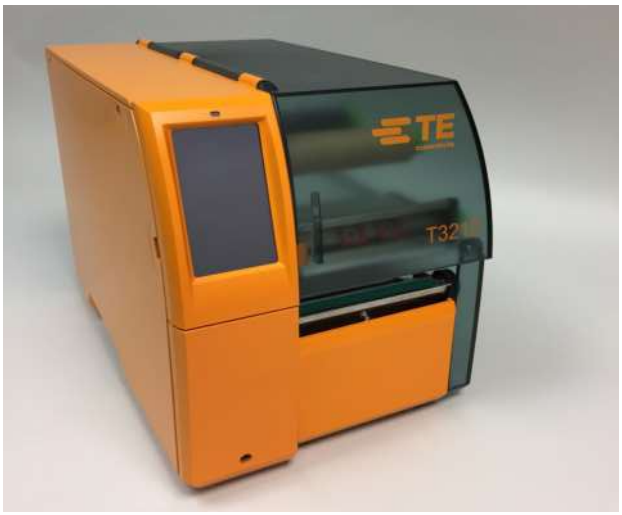
Pre-scoring	Perforated score to produce multiple marker sleeves from each HX-SCE sleeve			
	Standard	Not Scored	Code	Blank
	Non-standard	Side scored	Code	SS
		Side scored + 1 pre score	Code	SS1
		1 pre score	Code	S1
		2 pre scores	Code	S2
		3 pre scores	Code	S3
Packaging size	No code	<blank>	250 piece reels available in all sizes	
	Non Standard	0.5K -	500 piece reels available in size 38.1	
	Standard	1K -	1000 piece reels available for all sizes up to 25.4	
	Non Standard	2.5K -	2500 piece reels available for sizes up to 9.5	
	Non Standard	5K -	5000 piece reels available for sizes 2.4 and 3.2	
Colors	Standard	Yellow	White	
	Code	4	9	
	Non Standard	Red	Green	Blue Orange
	Code	2	5	6 3

Specify product name, pack size, sleeve size, sleeve length (always 50), pre-score (leave blank if not required) and color

Ordering Information

Ordering description	Inside diameter				Recovered wall thickness (nominal)	Weight (nominal)	Recommended cable diameter use range	
	As supplied (minimum)		After recovery (maximum)					
	mm	inches	mm	inches	mm	g	mm	inches
HX-SCE - <pack size> - 2.4 - 50 - <score> - <color>	2.38	0.094	1.19	0.047	0.50	0.21	1.2 to 1.9	0.050 to 0.075
HX-SCE - <pack size> - 3.2 - 50 - <score> - <color>	3.18	0.125	1.58	0.063	0.50	0.26	1.7 to 2.6	0.070 to 0.105
HX-SCE - <pack size> - 4.8 - 50 - <score> - <color>	4.76	0.188	2.38	0.094	0.51	0.37	2.5 to 4.0	0.100 to 0.160
HX-SCE - <pack size> - 6.4 - 50 - <score> - <color>	6.35	0.250	3.18	0.125	0.65	0.62	3.8 to 5.4	0.150 to 0.215
HX-SCE - <pack size> - 9.5 - 50 - <score> - <color>	9.53	0.375	4.76	0.188	0.65	0.87	5.2 to 8.1	0.206 to 0.320
HX-SCE - <pack size> - 12.7 - 50 - <score> - <color>	12.70	0.500	6.35	0.250	0.65	1.13	6.9 to 10.7	0.275 to 0.425
HX-SCE - <pack size> - 19.0 - 50 - <score> - <color>	19.05	0.750	9.53	0.375	0.75	1.90	10.1 to 16.2	0.400 to 0.640
HX-SCE - <pack size> - 25.4 - 50 - <score> - <color>	25.40	1.000	12.70	0.500	0.90	3.06	14.2 to 21.5	0.563 to 0.850
HX-SCE - <pack size> - 38.1 - 50 - <score> - <color>	38.10	1.500	19.00	0.750	1.00	4.96	20.9 to 33.0	0.825 to 1.300

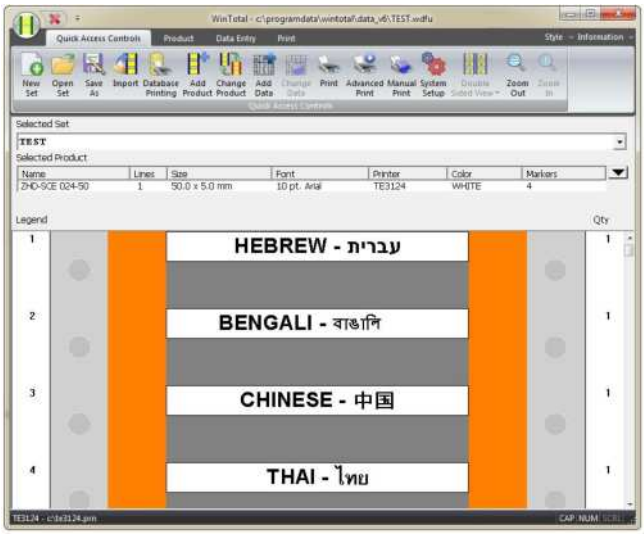
CLASS 1 DATA CLASSIFICATION - SEE POLICY TEC-02-04



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 TE.com resource



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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