RPS

Commercial Grade Continuous Tube

HEAT SHRINK IDENTIFICATION SYSTEM

Technical Datasheet

TTDS-019 Revision 5 - May 2022

RPS Heat Shrink Identification Marker Sleeving, for the identification of wire and cables.

Made from durable, flame retarded, radiation cross linked heat shrinkable polyolefin. RPS 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, commercial, industrial and transport. Printed marker sleeves meet the mark permanence requirements of AS5942 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.

The Identification system comprises specific printers, thermal transfer ribbons and WINTOTAL software.

*Except RPS-38.1 (1-1/2inch) which is 2:1 ratio.

RPS COMERICAL GRADE

HEAT SHRINK CABLE IDENTIFICATION SYSTEM

Features

- Self-extinguishing, non-flame propagating
- Good chemical and solvent resistance
- Can be laser marked for superior performance
- Pre-termination Cable Identification
- Sleeve diameters from 3.18mm to 38.1mm 22-18 to 400-1000
- RPS 3:1 Shrink ratio (RPS-38.1 (1-1/2inch) is 2:1 ratio)

Product Compliance

- RPS 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

- –30°C to 105°C (-22°F to 221°F)

Shelf Life

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

Application

Specifications / Approvals

TE Connectivity Standard	RW-2510 Specification for RPS 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 and 2 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
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

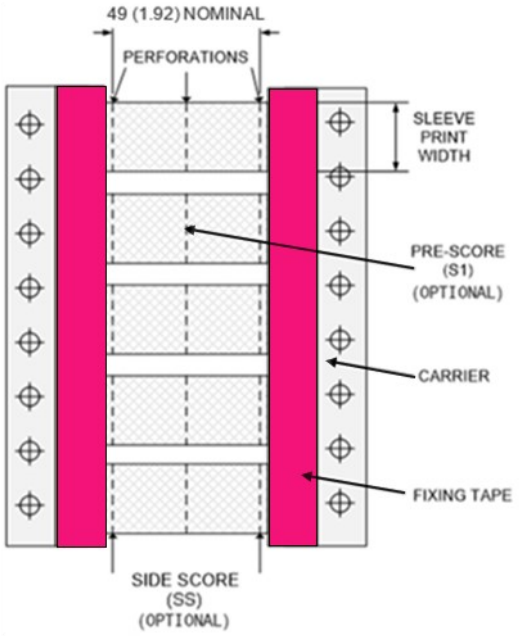
Where possible, TE have tested product as a finished item, including the print. Operational tests are followed by an assessment of mark adherence to validate fit form and function. Further details can be found in TE standard RW-2510

Part Description

RPS -1K -8-4 / -2.0 -S1 -9

9	Colour
S1	Scoring (Optional)
2.0	Sleeve Length (inches)
8-4 /	Expanded Inside Diameter (AWG)
1K	Pack Size
RPS	Product Family

Available Options



Dimensions in mm (inches)

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		**RPS**	
	<blank> 250 pieces	Available for all sizes	
	1K 1000 pieces	Available for all sizes	
	1.5K 1500	16-10 to 8-4	
	2.5K 2500 pieces	22-18 to 16-10	
	5K 5000 pieces	22-18 to 16-10	
Colours (RPS)	Yellow 4	White 9	

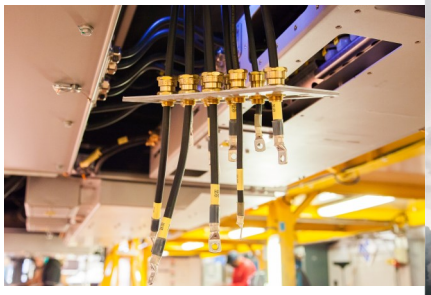
Specify product name, pack size (leave blank if 250 pieces are required), sleeve size, sleeve length, pre-score (leave blank if not required) and colour

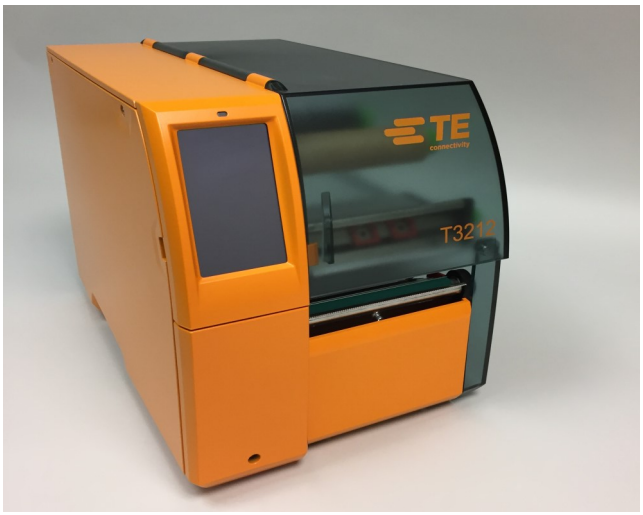
Ordering Example: RPS-16-10/2.0-S1-9

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

Ordering Information

Ordering description	Inside diameter				Recovered Wall Thickness (nominal)	Weight (nominal)	Cable Diameter Recommended use range					
	As supplied (minimum)		After recovery (maximum)				mm			inches		
	mm	inches	mm	inches	mm	g						
RPS - <pack size> - 22-18 / 2.0 - <score> - <colour>	3.18	0.125	1.07	0.042	0.58	0.20	1.2	to	2.7	0.046	to	0.105
RPS - <pack size> - 18-12 / 2.0 - <score> - <colour>	4.75	0.187	1.57	0.062	0.58	0.27	1.7	to	4.1	0.069	to	0.160
RPS - <pack size> - 16-10 / 2.0 - <score> - <colour>	6.35	0.250	2.11	0.083	0.58	0.35	2.3	to	5.5	0.091	to	0.215
RPS - <pack size> - 8-4 / 2.0 - <score> - <colour>	9.53	0.375	3.18	0.125	0.61	0.50	3.5	to	8.1	0.137	to	0.320
RPS - <pack size> - 10-2 / 2.0 - <score> - <colour>	12.70	0.500	4.22	0.166	0.61	0.68	4.6	to	10.8	0.183	to	0.425
RPS - <pack size> - 6-250 / 2.0 - <score> - <colour>	19.05	0.750	6.35	0.250	0.61	1.02	7.0	to	16.2	0.275	to	0.640
RPS - <pack size> - 1-400 / 2.0 - <score> - <colour>	25.40	1.000	8.46	0.333	0.64	1.35	9.3	to	21.6	0.366	to	0.850
RPS - <pack size> - 400-1000 / 2.0 - <score> - <colour>	38.10	1.500	19.05	0.750	0.51	2.20	20.9	to	33.0	0.825	to	1.300





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’:

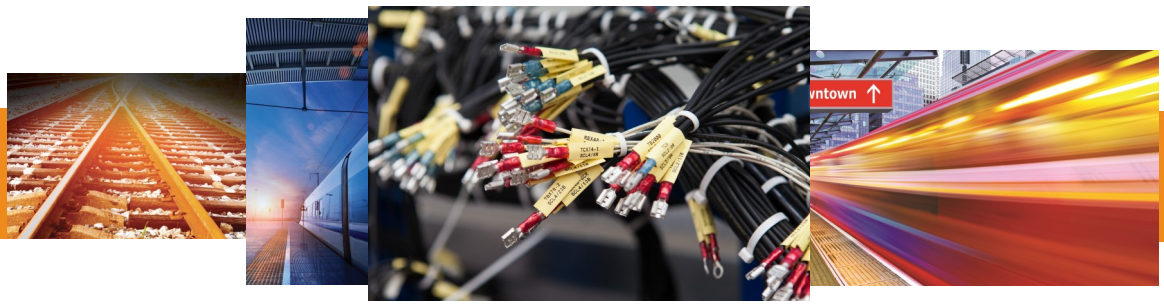
https://www.te.com/usa-en/products/identification-labeling/printers-software-and-accessories/printers.html?tab=pgp-story

Software

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

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

Contact a TE representative for further information.



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