

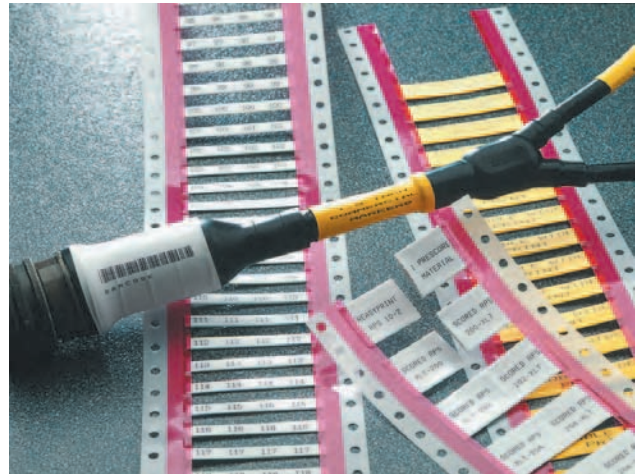
RPS Commercial grade heat-shrinkable wire identification sleeves

RPS markers are heat shrinkable marking sleeves for wire and cable identification. When RPS is printed with Tyco Electronics recommended printers and ink ribbons, the marks remain legible, without any post printing process, even when exposed to abrasion, aggressive cleaning solvents, and industrial fluids.

RPS markers are designed to meet the wire identification needs of commercial and industrial customers.

Features and benefits

- Permanent identification sleeves
- Computer printable
- Excellent print performance
- Configured for ease of kitting
- Good chemical and solvent resistance
- 3:1 shrink ratio
- CSA Certified, UL Recognized



Temperature rating

Operating temperature range	-30°C to +105°C	-22°F to +221°F
Minimum recovery temperature	+85°C	+185°F
Maximum storage temperature	+40°C	+104°F

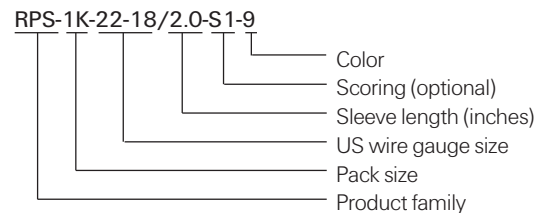
Specifications/approvals

Tyco Electronics	RW 25 10 TTDS-019
Military	SAE AS81531 4.6.2 MIL-STD-202 Method 215J
Industry	UL Recognized – standard 224, file E35586 CSA Certified – file 31929

Printer information

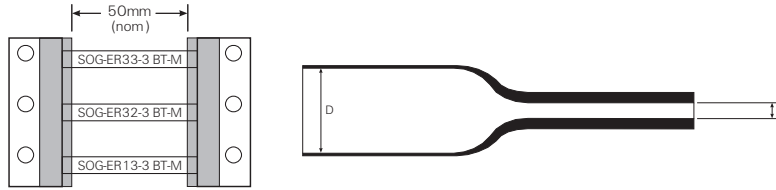
Tyco Electronics printer	AM6310 (dot matrix) T208M (thermal transfer – low volume) T312M (thermal transfer)
Tyco Electronics ribbon	1892BK04-RIBBON (dot matrix) TMS-101-RIBBON-4RPSCE (thermal transfer for T208M) TMS-RJS-RIBBON-4RPSCE (thermal transfer for T312M)

Part numbering system



RPS Commercial grade heat-shrinkable wire identification sleeves

Ordering information



Available sizes and formats

Ordering description	Inside diameter				Recommended use range	
	D (min) as supplied		d (max) after recovery			
	mm	inches	mm	inches	mm	inches
RPS-1K-22-18/2.0- <color>	3.18	0.125	1.07	0.042	1.17 - 2.66	0.046 - 0.105
RPS-1K-18-12/2.0- <color>	4.75	0.187	1.57	0.062	1.75 - 4.06	0.069 - 0.160
RPS-1K-16-10/2.0- <color>	6.35	0.250	2.11	0.083	2.31 - 5.46	0.091 - 0.215
RPS-1K-8-4/2.0- <color>	9.53	0.375	3.18	0.125	3.47 - 8.12	0.137 - 0.320
RPS-1K-10-2/2.0- <color>	12.70	0.500	4.22	0.166	4.64 - 10.79	0.183 - 0.425
RPS-1K-6-250/2.0- <color>	19.05	0.750	6.35	0.250	6.99 - 16.25	0.275 - 0.640
RPS-1K-1-400/2.0- <color>	25.40	1.000	8.46	0.333	9.29 - 21.59	0.366 - 0.850
RPS-1K-400-1000/2.0- <color>	38.10	1.500	19.05	0.750	20.95 - 33.02	0.825 - 1.300

Total width as supplied 90.18 mm (3.550 inches) including tape and carrier width.

Options

Prescoring	Perforated score to produce multiple marker sleeves from each RPS sleeve.		
Number of prescores	1 prescore	2 prescores	3 prescores
Code	S1	S2	S3
Package sizes	Standard 1K -1000 piece packs		
	Nonstandard Smaller and larger pack sizes are available. Please contact Tyco Electronics.		
Colors	Standard White Yellow		
Code	9	4	

Ordering information: Specify product name, pack size, sleeve size, prescore, format and color.

Ordering example: RPS-1K-22-18/2.0-S2-9

TECHNICAL DATA SHEET

www.tycoident.com

Document number: TTDS-019
Issue: 3
Date: April 2004

RPS™ heat-shrinkable sleeves

MATERIAL DESCRIPTION:	Thin wall, flame retarded radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves in a "ladder" configuration. 3:1 shrink ratio.
USE:	Identification of wires and cables by computer-based printing onto sleeves. Sleeves can also provide terminal insulation and strain relief. Suitable for many commercial applications.
PRINT METHOD/RIBBON:	Dot matrix: Epson LQ870, Tyco TMS-SYSTEM-SIX-RIBBON-A Dot matrix: AM6310, Tyco 1892BK04-RIBBON Thermal transfer: Tyco T312M-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE Thermal transfer: Tyco T200 Series, Tyco TMS-101-RIBBON-4RPSCE Thermal transfer: Tyco T408M-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE Thermal transfer: Tyco T612M-DS-PRINTER, Tyco TMS-RJS-RIBBON-4RPSCE
SERVICE TEMPERATURE:	-30°C to +105°C (-22°F to +221°F).
COLORS:	White or yellow.
FLAMMABILITY:	Average burn time <1 minute (UL 224, all tubing flame test).
LONGITUDINAL CHANGE:	20% maximum on shrinking.
TENSILE STRENGTH:	8MPa minimum (ASTM D2671).
ULTIMATE ELONGATION:	150% minimum (ASTM D2671).
MOLD GROWTH:	Print legible after 56 day incubation (ISO 846B) – tensile strength and ultimate elongation maintained after testing.
DIELECTRIC STRENGTH:	20MV/m minimum.

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Business locations:

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RPS™ heat-shrinkable sleeves

MAXIMUM STORAGE TEMPERATURE: 40C (104F)

PRINT PERMANENCE: Print legible after 50 rubs (SAE AS81531, 4.6.2)
Print legible after 30 strokes (MIL-STD-202F, method 215J)

FLUID RESISTANCE:

THREAT	TEST	EFFECT
Isopropyl Alcohol	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible
Gasoline (unleaded)	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible
Diesel Fuel, DF2	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Auto Engine Oil, SF 10W-40 (SAE J 183, SAE J 300)	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Motor Vehicle Brake Fluid, SAE J 1703	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Ethylene Glycol	24 hours at 23°C (73°F); SAE AS81531 4.6.2 (20 rubs)	Print legible
Vertrel XF	24 hours at 23°C (73°F), SAE AS81531 4.6.2 (20 rubs)	Print legible

Notes: See Tyco specification RT 1804 for full RPS performance & dimensional details.

Some types of neoprene insulation used in jackets contain additives that can migrate to the surface and discolor the polyolefin RPS sleeves. Any discoloration is dependent on the composition of the neoprene, combined with application conditions. Users should independently evaluate the suitability of RPS sleeves for applications involving neoprene-jacketed cables.

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