TMS-SCE

Military grade heat shrinkable wire identification sleeves

TMS-SCE marker sleeves are designed to meet the wire and cable marking needs of manufacturers with high performance requirements. Made from durable, flame retarded, radiation-crosslinked heat-shrinkable polyolefin, TMS-SCE marker sleeves can be used in a wide variety of applications. The marker sleeves meet the performance requirements of SAE-AMS- DTL-23053/5 classes 1 and 3 and the TMS-SCE-2X products are made from tubing fully compliant with this specification. The marks are permanent immediately after printing and remain legible even when exposed to abrasion, aggressive cleaning solvents, and military fuels and oils. The sleeves meet the mark permanence requirements of MIL-M-81531 and MIL-STD-202 both before and after shrinking.

Both 2:1 and 3:1 shrink ratios are available. The 2:1 products provide a thick, rugged sleeve wall and are particularly easy to handle. The lightweight 3:1 products provide extremely fast shrinking and cover a wider range of wire diameters, thus simplifying inventory.

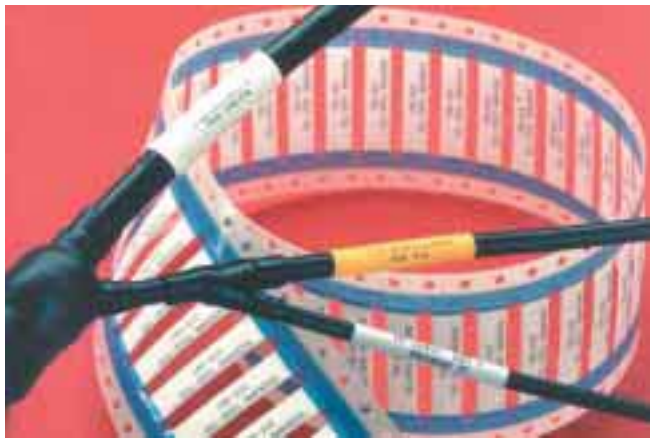
The marker sleeves are designed to be printed by computer-driven dot matrix or thermal transfer printers, providing several advantages in terms of reduced errors, cycle time and cost.

Supplied in a thin, flat "ladder" format, the sleeves are held horizontally between two hole-punched polyester strips. This configuration feeds directly from the storage box into a Tyco-recommended printer. Tyco-recommended ribbons should always be used. The ladder format provides automatic kitting of the marker sleeves in the desired sequence. A standard heat gun with reflector is used to shrink the sleeves onto the wire or cable.

Features and benefits

- Permanent identification sleeves.
- Computer-printable.
- Lightweight for aerospace applications.
- Military specification material and print performance.
- 2:1 and 3:1 shrink ratio.
- CSA Certified.
- UL Recognized, VW all flame tubing test rated.
- Quick recovery for heat sensitive areas.





Temperature rating		
Operating temperature range	−55°C to +135°C	−67°F to +275°F
Minimum recovery temperature	+85°C	+185°F
Maximum storage temperature	+40°C	+104°F

Specifications/approvals	
Tyco	RT-1805
Military	SAE-AMS-DTL-23053/5 classes1 and 3, MIL-M-81531, MIL-STD-202F Method 215J
Industry	UL Recognized – Standard 224, file E35586 CSA Certified – File 31929

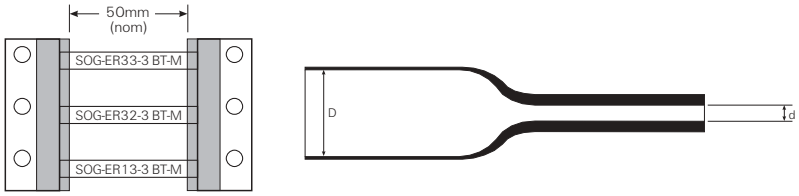
Printer information	
Tyco printer	LQ870 (dot matrix)
	T208M (thermal transfer, low volume)
	T312M (thermal transfer)
Tyco ribbon	TMS-SIX-RIBBON-A (dot matrix)
	TMS-101-RIBBON-4RPSCE (thermal transfer for T208M)
	TMS-RJS-RIBBON-4RPSCE (thermal transfer for T312M))

Part numbering system

TMS-SCE-2X-F1K-⅛-2.0-S1-9

- 9 — Color
- S1 — Scoring (optional)
- 2.0 — Sleeve length (2.0" nominal) (omit for 2X)
- ⅛ — Inside diameter, as supplied (in inches)
- K — Standard Pack (1,000 pieces)
- F1 — Fanfolded (optional)
- 2X — 2X is optional (2:1 shrink ratio: if left out, product will be 3:1)
- TMS-SCE — Product family

Ordering information



Available sizes and formats

Ordering description	Inside diameter Expanded D (minimum)		Recovered d (maximum)		Recommended use range		Recovered wall thickness		Weight
	mm	*inches*	mm	*inches*	mm	*inches*	mm	*inches*	(g/10 pcs.)
TMS-SCE-1K-3/32-2.0-<color>	2.36	*0.093*	0.79	*0.031*	0.81 - 1.90	*0.032 - 0.075*	0.53 ± 0.08	*0.021 ± 0.003*	1.50
TMS-SCE-2X-1K-3/32-<color>	2.36	*0.093*	1.17	*0.046*	1.27 - 1.90	*0.050 - 0.075*	0.51 ± 0.08	*0.025 ± 0.003*	2.04
TMS-SCE-1K-1/8-2.0-<color>	3.18	*0.125*	1.07	*0.042*	1.11 - 2.66	*0.044 - 0.105*	0.58 ± 0.08	*0.023 ± 0.003*	2.03
TMS-SCE-2X-1K-1/8-<color>	3.18	*0.125*	1.58	*0.062*	1.75 - 2.66	*0.069 - 0.105*	0.51 ± 0.08	*0.025 ± 0.003*	2.75
TMS-SCE-1K-3/16-2.0-<color>	4.75	*0.187*	1.57	*0.062*	1.75 - 4.06	*0.069 - 0.160*	0.58 ± 0.08	*0.023 ± 0.003*	2.68
TMS-SCE-2X-1K-3/16-<color>	4.75	*0.187*	2.36	*0.093*	2.54 - 4.06	*0.100 - 0.160*	0.51 ± 0.08	*0.025 ± 0.003*	3.62
TMS-SCE-1K-1/4-2.0-<color>	6.35	*0.250*	2.11	*0.083*	2.31 - 5.46	*0.091 - 0.215*	0.58 ± 0.08	*0.023 ± 0.003*	3.51
TMS-SCE-2X-1K-1/4-<color>	6.35	*0.250*	3.18	*0.125*	3.81 - 5.46	*0.150 - 0.215*	0.64 ± 0.08	*0.025 ± 0.003*	5.94
TMS-SCE-1K-3/8-2.0-<color>	9.53	*0.375*	3.18	*0.125*	3.47 - 8.12	*0.137 - 0.320*	0.61 ± 0.08	*0.024 ± 0.003*	5.04
TMS-SCE-2X-1K-3/8-<color>	9.53	*0.375*	4.75	*0.187*	5.59 - 8.12	*0.220 - 0.320*	0.64 ± 0.08	*0.025 ± 0.003*	8.50
TMS-SCE-1K-1/2-2.0-<color>	12.70	*0.500*	4.22	*0.166*	4.64 - 10.79	*0.183 - 0.425*	0.61 ± 0.08	*0.024 ± 0.003*	6.81
TMS-SCE-2X-1K-1/2-<color>	12.70	*0.500*	6.35	*0.250*	6.99 - 10.79	*0.275 - 0.425*	0.64 ± 0.08	*0.025 ± 0.003*	11.45
TMS-SCE-1K–3/4-2.0-<color>	19.05	*0.750*	6.35	*0.250*	6.99 - 16.25	*0.275 - 0.640*	0.61 ± 0.08	*0.024 ± 0.003*	12.03
TMS-SCE-2X-1K-3/4-<color>	19.05	*0.750*	9.53	*0.375*	10.16 - 16.25	*0.400 - 0.640*	0.76 ± 0.08	*0.030 ± 0.003*	20.63
TMS-SCE-1K-1-2.0-<color>	25.40	*1.000*	8.46	*0.333*	9.29 - 21.59	*0.366 - 0.850*	0.64 ± 0.08	*0.025 ± 0.003*	15.35
TMS-SCE-1K-1 1/2-2.0-<color>	38.10	*1.500*	19.05	*0.750*	20.95 - 33.02	*0.825 - 1.300*	0.51 ± 0.08	*0.020 ± 0.003*	27.51
TMS-SCE-1K-2-2.0-<color>	50.80	*2.000*	25.40	*1.000*	27.94 - 44.95	*1.100 - 1.750*	0.64 ± 0.08	*0.025 ± 0.003*	47.27
TMS-SCE-1K-2 1/4-2.0-<color>	57.15	*2.250*	19.05	*0.750*	22.32 - 50.80	*0.880 - 2.000*	0.76 ± 0.08	*0.030 ± 0.003*	42.06

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

Options

Prescoring	Perforated score to produce multiple markers from each 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.						
	Fanfolded		Fanfolded option available for use with dot matrix printers						
Colors	Standard	Yellow	White						
	Code	4	9						
	Nonstandard	Red	Pink	Orange	Green	Blue	Violet	Gray	Black
	Code	2	2L	3	5	6	7	8	0
	Note:		2X products meet the color requirements of MIL-STD-104 class 1; otherwise colors are pastel for print contrast.						
Ordering information:	Specify product name, pack size, sleeve size, prescore format, and color.								
Ordering example:	TMS-SCE-1K-1/8-2.0-S1-9 (scored once)								