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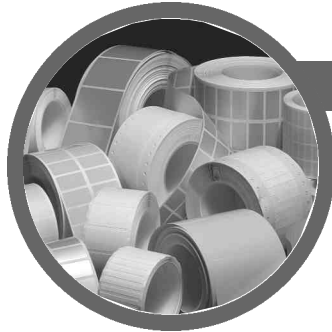




WIRE AND HARNESS ID PRODUCTS

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- Heat Shrink/Cable Markers*
- Performance Labels*
- Self-Laminating Labels*
- Pre-Printed Wire & Cable Markers*



LABEL ID PRODUCTS

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- Product Code Cross Reference*
- Thermal Transfer Labels*
- Dot Matrix Labels*
- Laser Labels*



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- Ribbons*
- Software*
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- Pre-Print Services*
- Permark*
- Rail — Signal Products*
- Tube and Pipe ID Labels*

REFERENCE

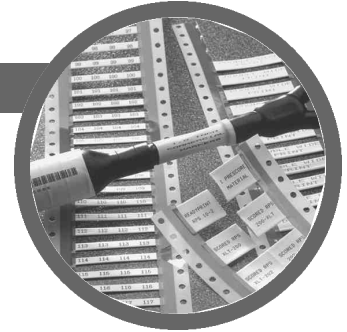
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Electronics

HEAT SHRINK/CABLE MARKERS

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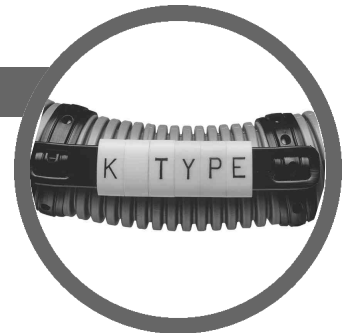
SELF-LAMINATING LABELS

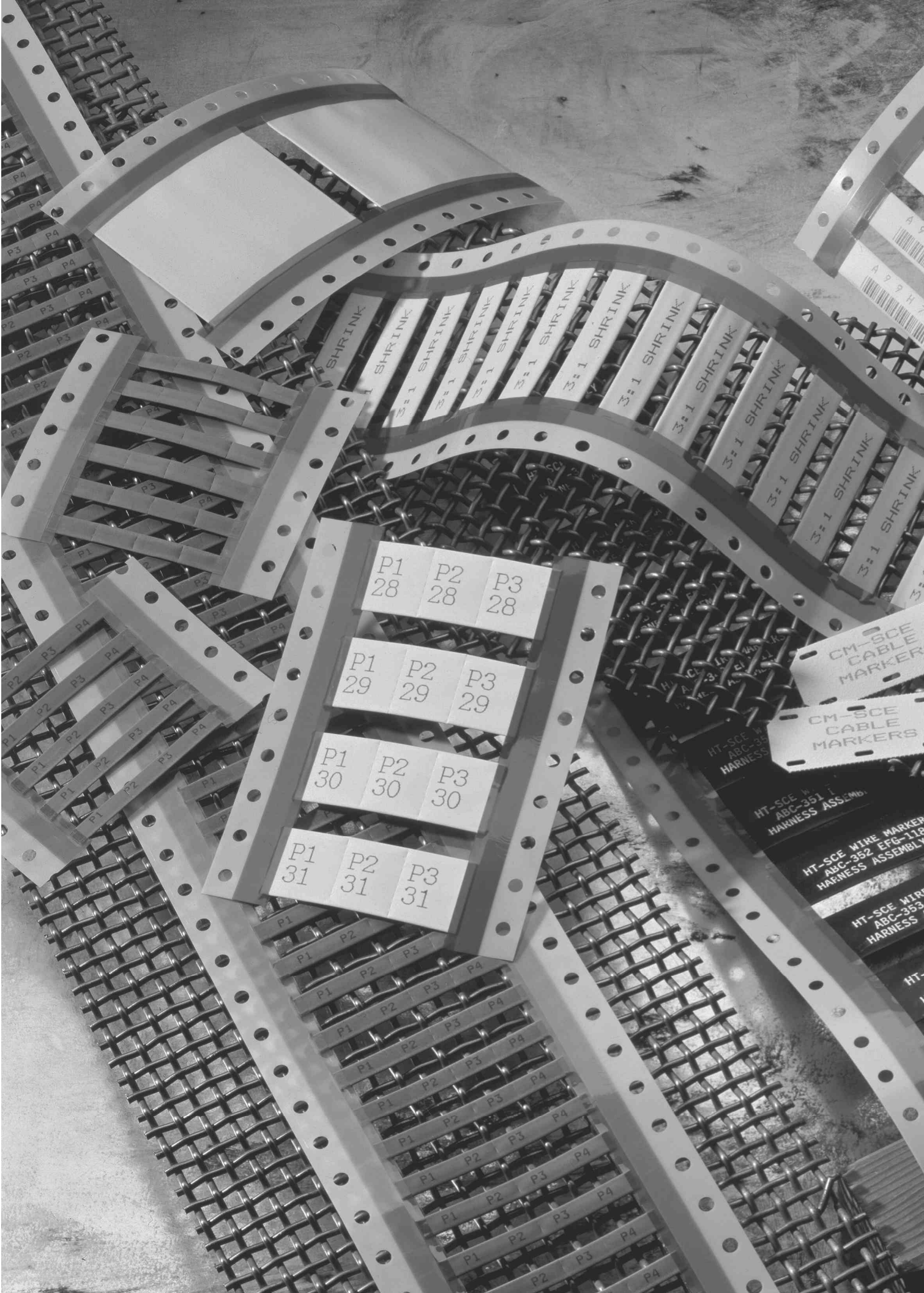
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TMS-SCE Military grade heat shrinkable wire identification sleeves

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 SAE AS8 153 1 4.6.2 and MIL-STD-202F both before and after shrinking.

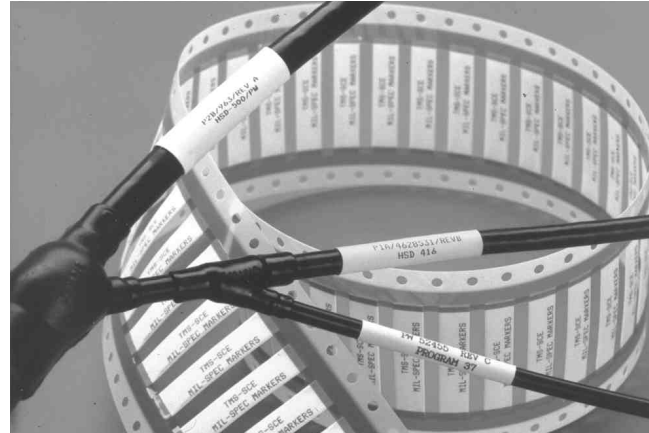
Both 2:1 and 3:1 shrink ratios are available. The 2:1 products provide a thick, rugged sleeve wall and are particularly easy to handle. The lightweight 3:1 products provide extremely fast shrinking and cover a wider range of wire diameters, thus simplifying inventory.

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

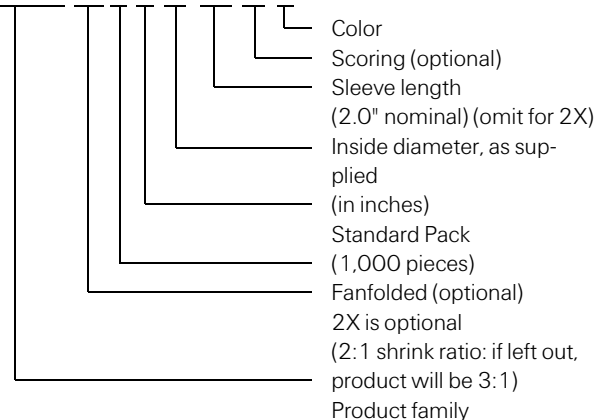
Tyco	RT-1805
Military	SAE-AMS-DTL-23053/5 classes 1 and 3, SAE AS8 153 1 4.6.2, MIL-STD-202F Method 215J
Industry	UL Recognized – Standard 224, file E35586 CSA Certified – File 31929

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)

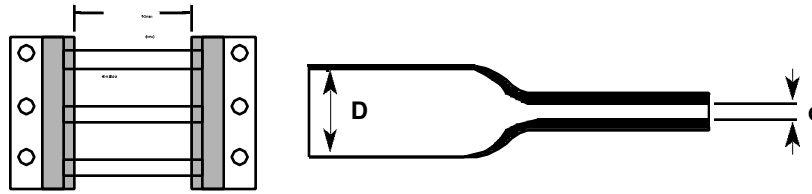
Part numbering system

TMS-SCE-2X-F1K-1/8-2.0-S1-9



TMS-SCE Military grade heat shrinkable wire identification sleeves (Cont'd)

Ordering information



Available sizes and formats

Ordering description	Inside diameter				Recommended use range	Recovered wall thickness		Weight (g/10 pcs.)	
	Expanded D (minimum)		Recovered d (maximum)						
	mm	inches	mm	inches		mm	inches		
TMS-SCE-1K- $\frac{3}{8}$ -2.0- <i><color></i>	2.36	<i>0.093</i>	0.79	<i>0.031</i>	0.81 - 1.90	<i>0.032 - 0.075</i>	0.53±0.08	<i>0.021±0.003</i>	1.50
TMS-SCE-2X-1K- $\frac{3}{32}$ - <i><color></i>	2.36	<i>0.093</i>	1.17	<i>0.046</i>	1.27 - 1.90	<i>0.050 - 0.075</i>	0.64±0.08	<i>0.025±0.003</i>	2.04
TMS-SCE-1K- $\frac{1}{8}$ -2.0- <i><color></i>	3.18	<i>0.125</i>	1.07	<i>0.042</i>	1.11 - 2.66	<i>0.044 - 0.105</i>	0.58±0.08	<i>0.023±0.003</i>	2.03
TMS-SCE-2X-1K- $\frac{1}{8}$ - <i><color></i>	3.18	<i>0.125</i>	1.58	<i>0.062</i>	1.75 - 2.66	<i>0.069 - 0.105</i>	0.64±0.08	<i>0.025±0.003</i>	2.75
TMS-SCE-1K- $\frac{3}{16}$ -2.0- <i><color></i>	4.75	<i>0.187</i>	1.57	<i>0.062</i>	1.75 - 4.06	<i>0.069 - 0.160</i>	0.58±0.08	<i>0.023±0.003</i>	2.68
TMS-SCE-2X-1K- $\frac{3}{16}$ - <i><color></i>	4.75	<i>0.187</i>	2.36	<i>0.093</i>	2.54 - 4.06	<i>0.100 - 0.160</i>	0.64±0.08	<i>0.025±0.003</i>	3.62
TMS-SCE-1K- $\frac{1}{4}$ -2.0- <i><color></i>	6.35	<i>0.250</i>	2.11	<i>0.083</i>	2.31 - 5.46	<i>0.091 - 0.215</i>	0.58±0.08	<i>0.023±0.003</i>	3.51
TMS-SCE-2X-1K- $\frac{1}{4}$ - <i><color></i>	6.35	<i>0.250</i>	3.18	<i>0.125</i>	3.81 - 5.46	<i>0.150 - 0.215</i>	0.64±0.08	<i>0.025±0.003</i>	5.94
TMS-SCE-1K- $\frac{3}{8}$ -2.0- <i><color></i>	9.53	<i>0.375</i>	3.18	<i>0.125</i>	3.47 - 8.12	<i>0.137 - 0.320</i>	0.61±0.08	<i>0.024±0.003</i>	5.04
TMS-SCE-2X-1K- $\frac{3}{8}$ - <i><color></i>	9.53	<i>0.375</i>	4.75	<i>0.187</i>	5.59 - 8.12	<i>0.220 - 0.320</i>	0.64±0.08	<i>0.025±0.003</i>	8.50
TMS-SCE-1K- $\frac{1}{2}$ -2.0- <i><color></i>	12.70	<i>0.500</i>	4.22	<i>0.166</i>	4.64 - 10.79	<i>0.183 - 0.425</i>	0.61±0.08	<i>0.024±0.003</i>	6.81
TMS-SCE-2X-1K- $\frac{1}{2}$ - <i><color></i>	12.70	<i>0.500</i>	6.35	<i>0.250</i>	6.99 - 10.79	<i>0.275 - 0.425</i>	0.64±0.08	<i>0.025±0.003</i>	11.45
TMS-SCE-1K- $\frac{3}{4}$ -2.0- <i><color></i>	19.05	<i>0.750</i>	6.35	<i>0.250</i>	6.99 - 16.25	<i>0.275 - 0.640</i>	0.61±0.08	<i>0.024±0.003</i>	12.03
TMS-SCE-2X-1K- $\frac{3}{4}$ - <i><color></i>	19.05	<i>0.750</i>	9.53	<i>0.375</i>	10.16 - 16.25	<i>0.400 - 0.640</i>	0.76±0.08	<i>0.030±0.003</i>	20.63
TMS-SCE-1K-1-2.0- <i><color></i>	25.40	<i>1.000</i>	8.46	<i>0.333</i>	9.29 - 21.59	<i>0.366 - 0.850</i>	0.64±0.08	<i>0.025±0.003</i>	15.35
TMS-SCE-1K-1 $\frac{1}{2}$ -2.0- <i><color></i>	38.10	<i>1.500</i>	19.05	<i>0.750</i>	20.95 - 33.02	<i>0.825 - 1.300</i>	0.51±0.08	<i>0.020±0.003</i>	27.51
TMS-SCE-1K-2-2.0- <i><color></i>	50.80	<i>2.000</i>	25.40	<i>1.000</i>	27.94 - 44.95	<i>1.100 - 1.750</i>	0.64±0.08	<i>0.025±0.003</i>	47.27
TMS-SCE-1K-2 $\frac{1}{4}$ -2.0- <i><color></i>	57.15	<i>2.250</i>	19.05	<i>0.750</i>	22.32 - 50.80	<i>0.880 - 2.000</i>	0.76±0.08	<i>0.030±0.003</i>	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- $\frac{1}{8}$ -2.0-S1-9 (scored once)

Ordering information

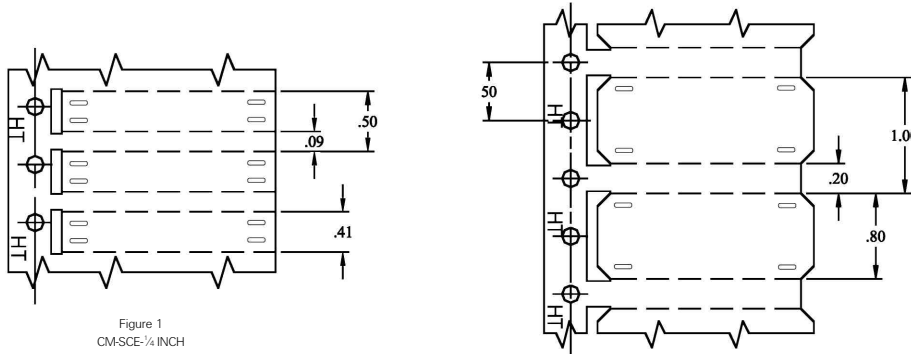


Figure 1
CM-SCE-1/4 INCH

Available sizes and formats

Ordering description	Size	Markable height		Markable length		Recommended use range	
		mm	<i>inches</i>	mm	<i>inches</i>	mm	<i>inches</i>
CM-SCE-1/4-4H- <i><color></i>	1/4	6.40	<i>0.250</i>	50.80	<i>2.000</i>	5.08 – 12.50	<i>0.200 – 0.492</i>
CM-SCE-TP-1/4-4H- <i><color></i> *	1/4	6.40	<i>0.250</i>	50.80	<i>2.000</i>	5.08 – 12.50	<i>0.200 – 0.492</i>
CM-SCE-1/2-4H- <i><color></i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
CM-SCE-TP-1/2-4H- <i><color></i> *	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
CM-SCE-1/2-6H- <i><color></i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
CM-SCE-TP-1/2-6H- <i><color></i> *	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>

* for thermal transfer printing

Options

Tie-wrap holes	1/4-inch tags	Four holes standard	
	1/2-inch tags	Four holes	Six holes
	Code	4H	6H
Fanfold	Code	Fx (substitute package size code for "x")	
Package sizes	Standard	250 pieces	
Colors	Standard	White	
	Code	9	
	Nonstandard	Yellow	
	Code	4	

Ordering information: Specify product name, markable height of marker, pack size, number of tie wraps and color.

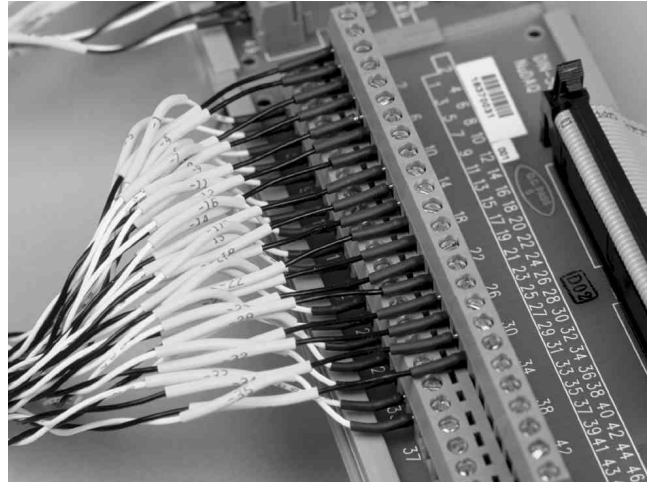
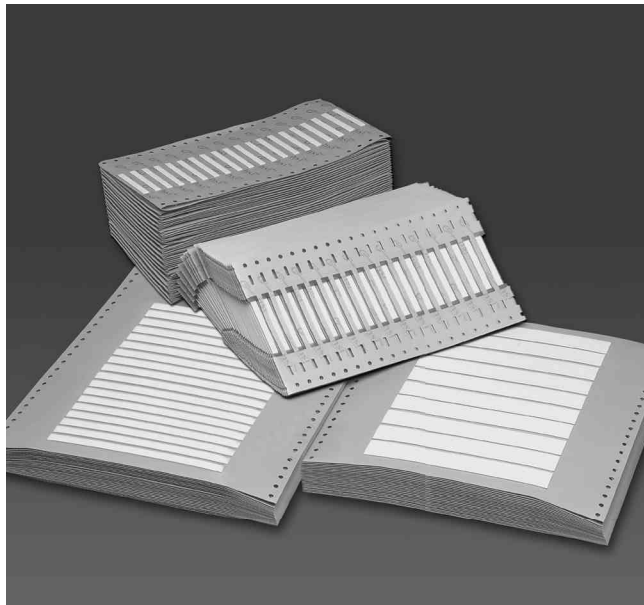
Ordering example: CM-SCE-2.5K-1/4-4H-9

HS 2:1 Shrink ratio heat shrinkable wire identification system

HS sleeves are thin wall, flame retarded radiation cross-linked polyolefin heat-shrinkable tubing, assembled as organized cut sleeves on a paper carrier. HS products are 2:1 shrink ratio. They are used in identification of wires and cables by computer-based printing onto sleeves. These products are suited to a wide variety of applications, including those with military standard requirements. The products meet the material and performance requirements of SAE AMS-DTL-23053/5 class 1.

Features and benefits

- Shrink ratio of 2:1 recovers to half of supplied diameter. Contact Tyco for 3:1 option.
- Comes in several sleeve lengths: 38mm, 50mm and 152mm.
- Sleeve diameter from 0.093" to 1.5" (2.4mm to 38.1mm).
- Flame retarded – meets ASTM D 2671 and UL224 (clause 14) standards.
- Single sided and double sided printing formats available.
- Standard dot matrix printable. Contact Tyco for thermal printable options.
- Heat resistance: +175°C (+347°F) for 168 hours or +250°C (+482°F) for 4 hours with no deterioration of properties.
- Concentricity: 70% minimum for low distortion of legends.
- Easy-to-use fan-fold format for improved kitting and marker selection.

**Temperature rating**

Operating temperature range	-55°C to +135°C	-67°F to +275°F
Minimum recovery temperature	+120°C	+248°F
Maximum storage temperature	+40°C	+104°F

Specifications/approvals

Tyco	TTDS-033
Military	SAE AMS-DTL-23053/5 Class 1 (material and performance) SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	ASTM D 2671 UL 224 (clause 14)

Printer information

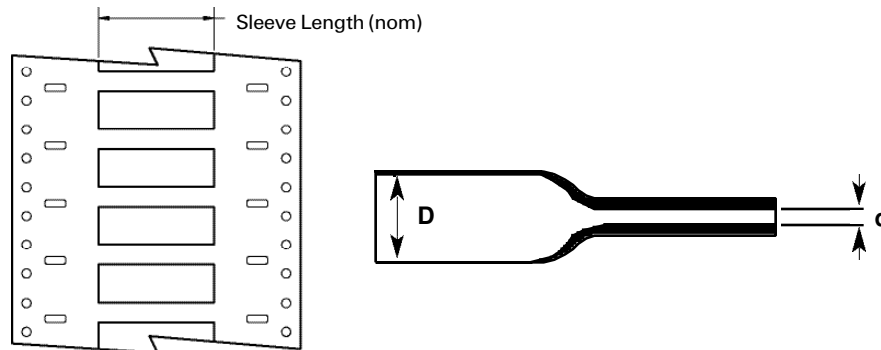
Tyco printer	AM6310 (dot matrix)
Tyco ribbon	1892BK03 (dot matrix – high performance) 1892BK04 (dot matrix)

Part numbering system

HS	048	YW	1	NF	050	B	
							Pack size
							Sleeve length (mm)
							Format
							Scoring
							Color
							Inside diameter as supplied (mm)
							Product family

HS 2:1 Shrink ratio heat shrinkable wire identification system (Cont'd)

Ordering information



Available sizes and formats

Ordering description	Inside diameter				Recommended use range		Pack size (uncut sleeves)		
	D (min) As supplied		d (max) After recovery				NF(B)	DS(B)	WF(B)
	mm	inches	mm	inches	mm	inches	38 and 50mm lengths	152 mm lengths	
HS024-<color-prescore-format-length-pack size>	2.40	0.093	1.17	0.050	1.27-1.90	0.050-0.075	1650	1100	N/A
HS032-<color-prescore-format-length-pack size>	3.20	0.126	1.58	0.060	1.75-2.66	0.069-0.105	1100	1100	550
HS048-<color-prescore-format-length-pack size>	4.80	0.189	2.36	0.090	2.54-4.06	0.100-0.160	1100	1100	500
HS064-<color-prescore-format-length-pack size>	6.35	0.250	3.18	0.125	3.81-5.46	0.150-0.215	550	550	500
HS095-<color-prescore-format-length-pack size>	9.53	0.374	4.75	0.187	5.59-8.12	0.220-0.320	550	550	275
HS127-<color-prescore-format-length-pack size>	12.70	0.500	6.35	0.250	6.99-10.79	0.275-0.425	550	300	250
HS190-<color-prescore-format-length-pack size>	19.05	0.750	9.53	0.375	10.16-16.25	0.400-0.640	300	300	175
HS254-<color-prescore-format-length-pack size>	25.40	1.000	12.70	0.500	9.29-21.59	0.366-0.850	300	300	125
HS381-<color-prescore-format-length-pack size>	38.10	1.500	19.05	0.750	20.95-22.02	0.825-1.300	100	100	75

Options

Prescoring	Perforated score to produce multiple marker sleeves from each HS.					
	Number of prescores	0 prescores	1 prescore	2 prescores	3 prescores	5* prescores
	Markers per sleeve	1	2	3	4	6*
	Code	1	2	3	4	6*
*Wide format only						
Package sizes	B	Standard for narrow format: NF (single sided) and DS (double sided)				
	X	Bulk for narrow format (contains double the number of markers in a narrow format B pack): NF (single sided)				
	B	Standard for wide format: WF (single sided)				
Colors	Standard	White	Yellow			
	Code	WE	YW			
Format	NF	Single-sided printing – narrow format				
	DS	Double-sided printing – narrow format				
	WF	Single-sided printing – wide format				
Uncut sleeve length	038	38 mm (1.5") – narrow format		Ordering example: HS032WE2NF038B		
	050	50 mm (2") – narrow format		Ordering example: HS064YW3NF050X		
	152	152 mm (6") – wide format		Ordering example: HS095WE6WF152B		

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

Ordering example: HS032WE2NF038B

tyco

Electronics

Heat Shrink/Cable Markers

HL Tie-on cable marker tags

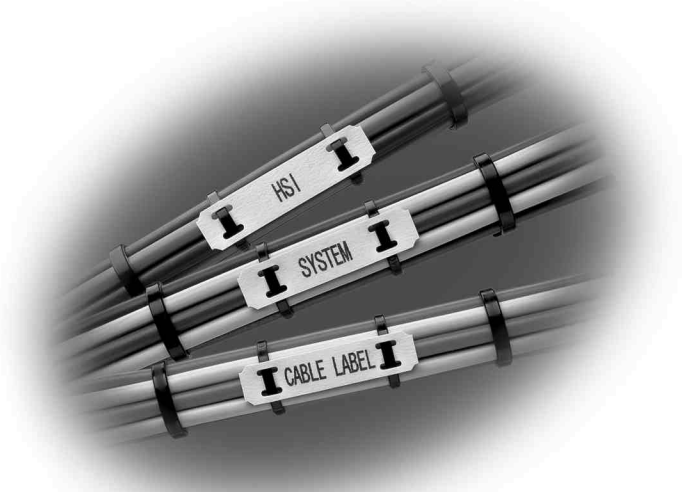
Used to identify large cables and bundles either pre- or post-termination, these flame retarded HL cable markers are suitable for use in environments with temperatures of -55°C to $+135^{\circ}\text{C}$ (-67°F to $+275^{\circ}\text{F}$). The markers are easily applied with standard cable ties.

HL markers are presented as organized markers assembled onto either a fanfolded or reeled paper carrier for ease of selection and kitting and are available in an extensive range of sizes.

They are available with the surface designed for either dot matrix or thermal transfer printers.

Features and benefits

- Recommended for use where de-termination of wires is not possible for large ID wires or wire bundles.
- Heat resistant to $+175^{\circ}\text{C}$ for 168 hours or $+250^{\circ}\text{C}$ for 4 hours with no deterioration in properties.
- Several printable widths and heights available.
- Non-standard color options available.

**Temperature rating**

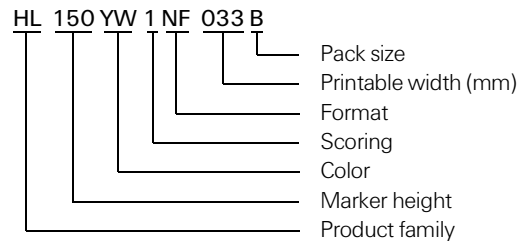
Operating temperature range	-55°C to $+135^{\circ}\text{C}$	-65°F to $+275^{\circ}\text{F}$
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Specifications/approvals

Tyco	TTDS-037
Military	SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	UL 224 (clause 14) ASTM D 2671

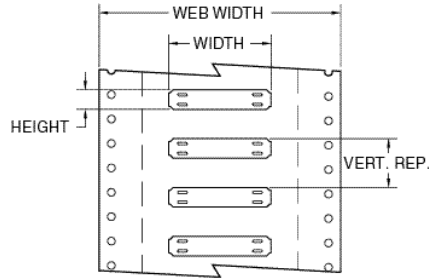
Printer information

Tyco printer	AM 6310 (dot matrix) T312M (thermal transfer)
Tyco ribbon	1892BK04 (dot matrix) 1892BK03 (dot matrix – high performance) TMS-RJS-RIBBON-4RPSCE (thermal transfer)

Part numbering system

HL Tie-on cable marker tags (Cont'd)

Ordering information



Available sizes and formats

Ordering description	Marker dimensions (W X H)		Printable area (W X H)		Pack size	
	mm	<i>inches</i>	mm	<i>inches</i>	NF	TS
HL104<color>1<format>025B	45.00 x 10.40	<i>1.800 x 0.400</i>	25.00 x 10.40	<i>1.000 x 0.400</i>	550	1000
HL104<color>1<format>033B	52.00 x 10.40	<i>2.100 x 0.400</i>	33.00 x 10.40	<i>1.300 x 0.400</i>	550	1000
HL104<color>1<format>038B	58.00 x 10.40	<i>2.300 x 0.400</i>	38.00 x 10.40	<i>1.500 x 0.400</i>	550	1000
HL104<color>1<format>050B	70.00 x 10.40	<i>2.750 x 0.400</i>	50.00 x 10.40	<i>2.000 x 0.400</i>	550	1000
HL104<color>1<format>070B	90.00 x 10.40	<i>3.500 x 0.400</i>	70.00 x 10.40	<i>2.750 x 0.400</i>	550	1000
HL150<color>1<format>025B	45.00 x 15.00	<i>1.800 x 0.600</i>	25.00 x 15.00	<i>1.000 x 0.600</i>	550	500
HL150<color>1<format>033B	52.00 x 15.00	<i>2.100 x 0.600</i>	33.00 x 15.00	<i>1.300 x 0.600</i>	550	500
HL150<color>1<format>038B	58.00 x 15.00	<i>2.300 x 0.600</i>	38.00 x 15.00	<i>1.500 x 0.600</i>	550	500
HL150<color>1<format>050B	70.00 x 15.00	<i>2.750 x 0.600</i>	50.00 x 15.00	<i>2.000 x 0.600</i>	550	500
HL150<color>1<format>070B	90.00 x 15.00	<i>3.500 x 0.600</i>	70.00 x 15.00	<i>2.750 x 0.600</i>	550	500
HL203<color>1<format>025B	45.00 x 20.30	<i>1.800 x 0.800</i>	25.00 x 20.30	<i>1.000 x 0.800</i>	550	500
HL203<color>1<format>033B	52.00 x 20.30	<i>2.100 x 0.800</i>	33.00 x 20.30	<i>1.300 x 0.800</i>	550	500
HL203<color>1<format>038B	58.00 x 20.30	<i>2.300 x 0.800</i>	38.00 x 20.30	<i>1.500 x 0.800</i>	550	500
HL203<color>1<format>050B	70.00 x 20.30	<i>2.750 x 0.800</i>	50.00 x 20.30	<i>2.000 x 0.800</i>	550	500
HL203<color>1<format>070B	90.00 x 20.30	<i>3.500 x 0.800</i>	70.00 x 20.30	<i>2.750 x 0.800</i>	550	500
HL253<color>1<format>025B	45.00 x 25.30	<i>1.800 x 1.000</i>	25.00 x 25.30	<i>1.000 x 1.000</i>	300	250
HL253<color>1<format>033B	52.00 x 25.30	<i>2.100 x 1.000</i>	33.00 x 25.30	<i>1.300 x 1.000</i>	300	250
HL253<color>1<format>038B	58.00 x 25.30	<i>2.300 x 1.000</i>	38.00 x 25.30	<i>1.500 x 1.000</i>	300	250
HL253<color>1<format>050B	70.00 x 25.30	<i>2.750 x 1.000</i>	50.00 x 25.30	<i>2.000 x 1.000</i>	300	250
HL253<color>1<format>070B	90.00 x 25.30	<i>3.500 x 1.000</i>	70.00 x 25.30	<i>2.750 x 1.000</i>	300	250

Options

Prescoring	Not available on these products – this should always be 1.		
Package sizes	Standard	B	
Colors	Standard	White	Yellow
	Code	WE	YW
Format	Nonstandard	Red	Blue
	Code	RD	BE
Format	NF – Dot matrix printing (fanfold/single sided)		
	TS – Thermal transfer (reel/single sided)		
Printable Width On Marker	025	25mm (1")	
	033	33mm (1.3")	
	038	38mm (1.5")	
	050	50mm (2")	
	070	70mm (2.75")	

Ordering information: Specify product name, marker height, color, scoring option (always 1), format, printable width, and pack size.

Ordering example: HL150YW1NF033B

tyco**Electronics**

Heat Shrink/Cable Markers

HT-SCE High temperature, low outgassing heat shrinkable wire identification sleeves

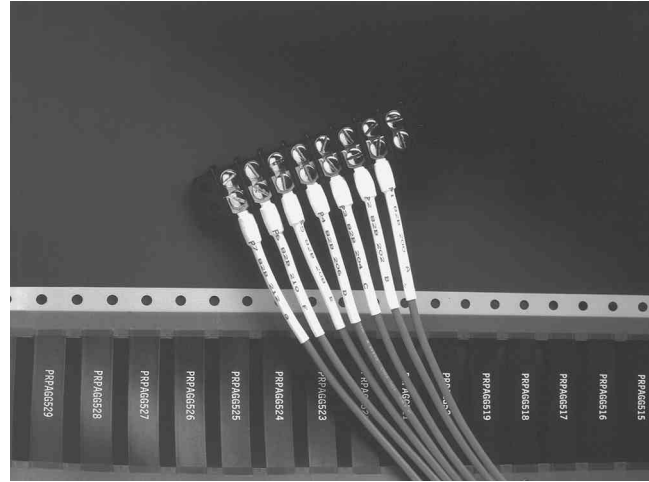
Tyco's HT-SCE wire markers are designed for use in high temperature applications or where extreme resistance to fuels, lubricants and cleaning solvents is required. They are also ideal for applications in which low-vacuum outgassing is critical. The marker sleeves are made of highly flame retarded, heat-shrinkable fluoropolymer tubing.

HT-SCE markers are supplied as a thin, flat "ladder" of sleeves held horizontally between two polyester strips. This configuration feeds directly from the storage box into standard Tyco recommended printers, with no modifications necessary. A strip of adhesive tape on each side of the sleeves holds them securely in place for printing and kitting, yet the sleeves pull easily from the carrier strips. A standard heat gun with reflector is used to shrink the sleeves onto the wire or cable to achieve a permanent mark.

After shrinking, HT-SCE markers meet the print performance requirements of SAE AS81531 4.6.2 and MIL-STD-202F. HT-SCE markers are supplied in boxes of 1000 sleeves and are available in nine diameter sizes. These cover substrates from 0.8 mm to 34.0 mm. Because of this versatility, customers need not carry a large inventory of markers.

Features and benefits

- Permanent identification sleeves.
- High continuous operating temperature.
- Extreme fluid resistance.
- Low-vacuum outgassing.
- Wide range of sleeve sizes for several wire and bundle diameters.

**Temperature rating**

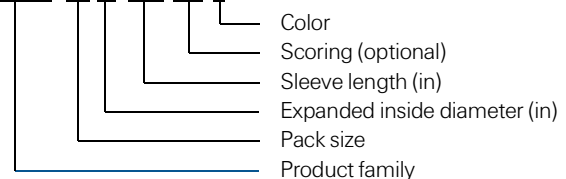
Operating temperature range	-55°C to +225°C	-67°F to +437°F
Minimum recovery temperature	+200°C	+392°F
Maximum storage temperature	+40°C	+104°F

Specifications/approvals

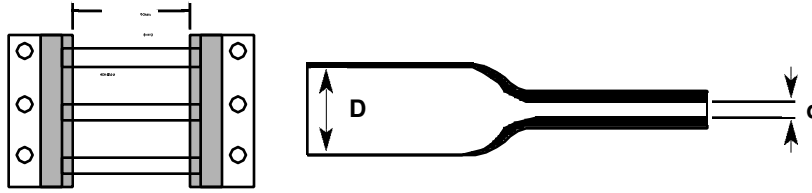
Tyco	RT1806
Military	SAEAS 81531 4.6.2 MIL-STD-202F Method 215J

Printer information

Tyco printer	T3 12M (thermal transfer)
Tyco ribbon	TMS-RJS-RIBBON-4HT (thermal transfer)

Part numbering systemHT-SCE-1K- $\frac{1}{4}$ -2.0-S1-0

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		
HT-SCE-1K- $\frac{2}{3}$ -2.0- <color>	2.36	0.093	0.79	0.031	0.81 - 1.90	0.032 - 0.075
HT-SCE-1K- $\frac{1}{8}$ -2.0- <color>	3.18	0.125	1.58	0.062	1.75 - 2.66	0.069 - 0.105
HT-SCE-1K- $\frac{3}{16}$ -2.0- <color>	4.75	0.187	2.36	0.093	2.54 - 4.06	0.100 - 0.160
HT-SCE-1K- $\frac{1}{4}$ -2.0- <color>	6.35	0.250	3.18	0.125	3.40 - 6.00	0.134 - 0.236
HT-SCE-1K- $\frac{3}{8}$ -2.0- <color>	9.53	0.375	4.75	0.187	5.30 - 8.10	0.209 - 0.319
HT-SCE-1K- $\frac{1}{2}$ -2.0- <color>	12.70	0.500	6.35	0.250	6.60 - 11.40	0.260 - 0.449
HT-SCE-1K- $\frac{3}{4}$ -2.0- <color>	18.00	0.709	9.00	0.354	9.90 - 15.30	0.390 - 0.602
HT-SCE-1K-1-2.0- <color>	25.40	1.000	12.70	0.500	13.30 - 23.00	0.524 - 0.906
HT-SCE-1K-1 $\frac{1}{2}$ -2.0- <color>	38.10	1.500	19.05	0.750	20.95 - 34.00	0.825 - 1.339

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 HT-SCE sleeve			
	Number of prescores	1 prescore	2 prescores	3 prescores
	Code	S1	S2	S3
Package size	Standard	1K - 1000 piece packs		
	Nonstandard	Larger pack sizes are available. Please contact Tyco.		
Colors	Standard	White	Black	
	Code	9	0	
	Nonstandard	Pink	Blue	Yellow
Code	2L	6	4	

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

Ordering example: HT-SCE-1K- $\frac{1}{4}$ -2.0-S1-9

Ordering information

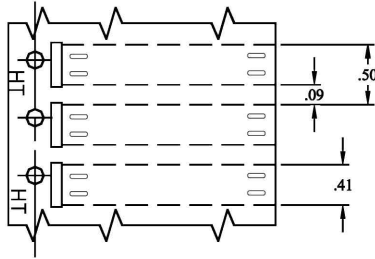


Figure 1
HTCM-SCE-1/4 INCH

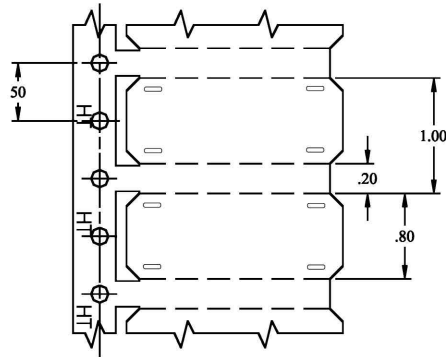


Figure 2

Available sizes and formats

Ordering description	Size	Markable height		Markable length		Recommended use range	
		mm	<i>inches</i>	mm	<i>inches</i>	mm	<i>inches</i>
HTCM-SCE-1/4-4H- <i><color></i>	1/4	6.40	<i>0.250</i>	50.80	<i>2.000</i>	5.08 – 12.50	<i>0.200 – 0.492</i>
HTCM-SCE-TP-1/4-4H- <i><color>*</i>	1/4	6.40	<i>0.250</i>	50.80	<i>2.000</i>	5.08 – 12.50	<i>0.200 – 0.492</i>
HTCM-SCE-1/2-4H- <i><color></i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
HTCM-SCE-TP-1/2-4H- <i><color>*</i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
HTCM-SCE-1/2-6H- <i><color></i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>
HTCM-SCE-TP-1/2-6H- <i><color>*</i>	1/2	12.70	<i>0.500</i>	50.80	<i>2.000</i>	12.50 and up	<i>0.492 and up</i>

* for thermal transfer printing

Options

Tie-wrap holes	1/4-inch tags	Four holes standard	
	1/2-inch tags	Four holes	Six holes
	Code	4H	6H
Fanfold	Code	Fx (substitute package size code for "x")	
Package sizes	Standard	250 pieces	
Colors	Standard	White	
	Code	9	
	Nonstandard	Yellow	
	Code	4	

Ordering information: Specify product name, markable height of marker, pack size, number of tie wraps and color.

Ordering example: HTCM-SCE - F2.5K-1/4-4H-9

ZH-SCE Zero halogen heat shrinkable wire identification sleeves

ZH-SCE identification sleeves are for use in enclosed spaces in marine, mass transit, offshore and industrial installations.

ZH-SCE has a 2:1 shrink ratio and is printed using Tyco approved printing equipment and ribbons. The printed mark is permanent immediately after printing and remains legible after exposure to abrasion, aggressive cleaning fluids, military fuels and oils.

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. The ladder format provides automatic kitting of the marker sleeves in the desired sequence.

Features and benefits

- Permanent identification sleeves.
- Computer printable.
- Extremely low smoke and acid gas emission.
- 2:1 shrink ratio.
- Standard side scored for easy application.



Temperature rating

Operating temperature range	-30°C to +105°C	-22°F to +221°F
Minimum recovery temperature	+120°C	+248°F
Maximum storage temperature	+40°C	+104°F

Specifications/approvals

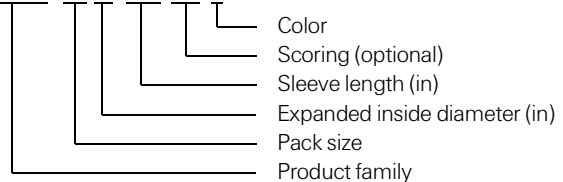
Tyco	RW 2030
Military	SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	BS 6853 [1999] – Vehicle Category 1a

Printer information

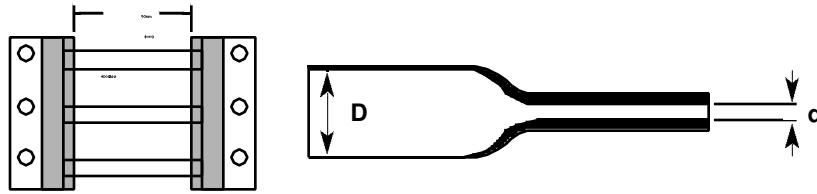
Tyco printer	T312M (thermal transfer)
Tyco ribbon	TMS-RJS-RIBBON-4ZH (thermal transfer)

Part numbering system

ZH-SCE-1K-*¼*-2.0-S1-4



Ordering information



Available sizes and formats

Ordering description	Inside diameter				Recommended use range	
	D (min) as supplied		d (max) after recovery			
	mm	<i>inches</i>	mm	<i>inches</i>	mm	<i>inches</i>
ZH-SCE-1K- $\frac{3}{8}$ -2.0- <color>	2.36	<i>0.093</i>	1.17	<i>0.046</i>	1.27 - 1.90	<i>0.050 - 0.075</i>
ZH-SCE-1K- $\frac{1}{8}$ -2.0- <color>	3.18	<i>0.125</i>	1.57	<i>0.062</i>	1.75 - 2.66	<i>0.069 - 0.105</i>
ZH-SCE-1K- $\frac{3}{16}$ -2.0- <color>	4.75	<i>0.187</i>	2.36	<i>0.093</i>	2.54 - 4.06	<i>0.100 - 0.160</i>
ZH-SCE-1K- $\frac{1}{4}$ -2.0- <color>	6.35	<i>0.250</i>	3.18	<i>0.125</i>	3.40 - 5.50	<i>0.134 - 0.217</i>
ZH-SCE-1K- $\frac{3}{8}$ -2.0- <color>	9.53	<i>0.375</i>	4.75	<i>0.187</i>	5.00 - 9.00	<i>0.197 - 0.354</i>
ZH-SCE-1K- $\frac{1}{2}$ -2.0- <color>	12.70	<i>0.500</i>	6.35	<i>0.250</i>	6.99 - 10.79	<i>0.275 - 0.425</i>
ZH-SCE-1K- $\frac{3}{4}$ -2.0- <color>	19.05	<i>0.750</i>	9.53	<i>0.375</i>	9.90 - 15.30	<i>0.390 - 0.602</i>
ZH-SCE-1K-1-2.0- <color>	25.40	<i>1.000</i>	12.70	<i>0.500</i>	13.30 - 23.00	<i>0.524 - 0.906</i>
ZH-SCE-1K-1- $\frac{1}{2}$ -2.0- <color>	38.10	<i>1.500</i>	19.05	<i>0.750</i>	20.00 - 34.00	<i>0.787 - 1.339</i>

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 ZH-SCE sleeve.			
	Standard	Side scored		
	Number of prescores	1 prescore	2 prescores	3 prescores
Code	S1	S2	S3	
Package sizes	Standard	1K - 1000 piece packages available for all ZH-SCE sizes		
	Nonstandard	Larger pack sizes are available. Please contact Tyco.		
Colors	Standard	White	Yellow	
	Code	9	4	
	Nonstandard	Red	Green	Blue
Code	2	5	6	

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

Ordering example: ZH-SCE-1K- $\frac{1}{4}$ -2.0-S1-9

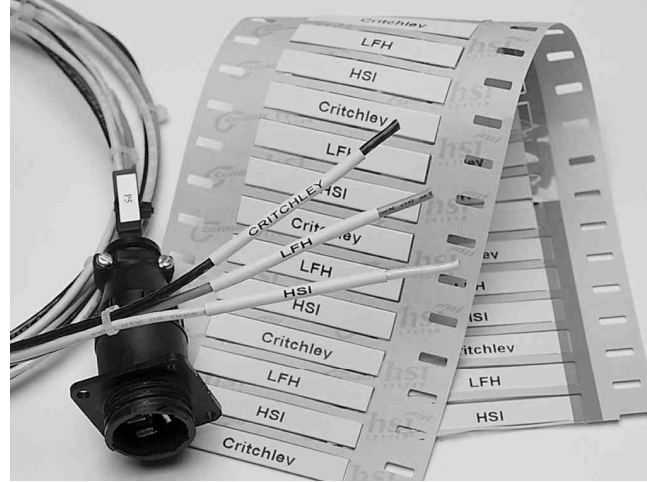
HX Low fire hazard heat shrinkable wire identification sleeves

HXwire identification sleeves are used to identify wires and cables where low fire hazard properties are critical. The zero halogen material coupled with low smoke and low toxic fume emissions make this product ideal for use in enclosed spaces such as mass transit, marine and industrial installations. HX markers are suitable for use in environments with temperatures of -30°C to $+105^{\circ}\text{C}$ (-22°F to $+221^{\circ}\text{F}$).

These 2:1 shrink ratio markers are assembled as organized cut sleeves onto a paper carrier for ease of marker selection and kitting. The assembled sleeves are available in both single and double sided printable formats.

Features and benefits

- Shrink ratio of 2:1 (recovers to half of supplied diameter).
- Flame retardant – meets ASTM E 162.
- Smoke emission – meets ASTM E 662.
- No secondary mark curing process is required.
- Self-extinguishing.
- Sleeve diameter from 0.125" to 1.50" (3.2 mm to 38.1 mm).
- Sleeve lengths from 0.5" to 2.0" (12.7 mm to 50.8 mm).
- Concentricity: 70% minimum for low distortion of legends.
- Printable on two sides for additional ease in identification.

**Temperature rating**

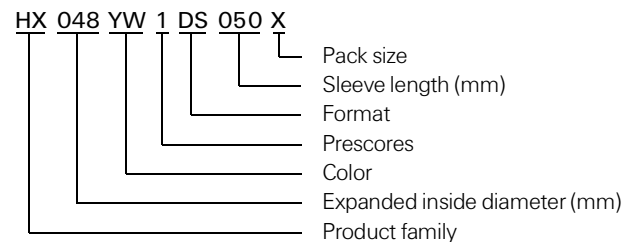
Operating temperature range	-30°C to $+105^{\circ}\text{C}$	-22°F to $+221^{\circ}\text{F}$
Minimum recovery temperature	$+135^{\circ}\text{C}$	$+275^{\circ}\text{F}$
Maximum storage temperature	$+40^{\circ}\text{C}$	$+104^{\circ}\text{F}$

Specifications/approvals

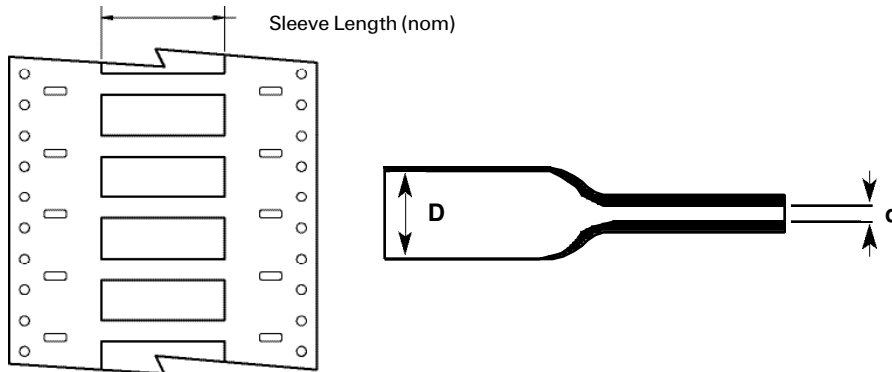
Tyco	RW 2066
Military	SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	BS 6853 [1999] – Vehicle category 1a

Printer information

Tyco printer	AM6310 (dot matrix) T312M (thermal transfer)
Tyco ribbon	1892BK03 (dot matrix) 1950-RIBBON-4T300 (thermal transfer)

Part numbering system

Ordering information



Available sizes and formats

Ordering description	Inside diameter				Recommended use range		Pack size	
	D (min) As supplied		d (max) After recovery				B pack (uncut sleeves)	
	mm	<i>inches</i>	mm	<i>inches</i>	mm	<i>inches</i>	NF	DS
HX-032-<color-prescore-format-length-pack size>	3.20	<i>0.126</i>	1.58	<i>0.060</i>	1.75-2.66	<i>0.069-0.105</i>	1100	1100
HX-048-<color-prescore-format-length-pack size>	4.80	<i>0.189</i>	2.36	<i>0.090</i>	2.54-4.06	<i>0.100-0.160</i>	1100	1100
HX-064-<color-prescore-format-length-pack size>	6.40	<i>0.250</i>	3.18	<i>0.125</i>	3.81-5.46	<i>0.150-0.215</i>	550	550
HX-095-<color-prescore-format-length-pack size>	9.50	<i>0.374</i>	4.75	<i>0.187</i>	5.59-8.12	<i>0.220-0.320</i>	550	550
HX-127-<color-prescore-format-length-pack size>	12.70	<i>0.500</i>	6.35	<i>0.250</i>	6.99-10.79	<i>0.275-0.425</i>	550	300
HX-190-<color-prescore-format-length-pack size>	19.00	<i>0.750</i>	9.53	<i>0.375</i>	10.16-16.25	<i>0.400-0.640</i>	300	300
HX-254-<color-prescore-format-length-pack size>	25.40	<i>1.000</i>	12.70	<i>0.500</i>	14.29-21.59	<i>0.563-0.850</i>	300	300
HX-381-<color-prescore-format-length-pack size>	38.10	<i>1.500</i>	19.05	<i>0.750</i>	20.95-33.02	<i>0.825-1.300</i>	100	100

Options

Prescoring	Perforated score to produce multiple marker sleeves from each HX sleeve.				
	Number of prescores	0 prescores	1 prescore	2 prescores	3 prescores
	Markers per sleeve	1	2	3	4
	Code	1	2	3	4
Package sizes	B	Standard for narrow format (NF and DS)			
	X	Bulk (contains double the number of markers in a B pack)			
Colors	Standard	White	Yellow		
	Code	WE	YW		
	Nonstandard	Red*	Blue*	Green	Orange
		RD	BE	GN	OE
		*Available in DS only			
Format	NF	Single-sided printing (dot matrix only)			
	DS	Double-sided printing (thermal and dot matrix)			
Sleeve length	038	38 mm			
	044	44 mm (available in NF only)			
	050	50 mm			

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

Ordering example: HX064YW2DS050X

HLX Low fire hazard cable marker tags

HLX cable markers are made from zero halogen, low smoke, low toxicity, radiation cross-linked, UV stabilized polyolefin sheet, formed into punched organized cable markers on a paper carrier.

They are used for identification of cables and wire bundles by computer-based printing onto markers. Markers are attached using cable ties. HLX markers are ideal for applications where limited fire hazard characteristics are critical.

Features and benefits

- Recommended for use where combustion of products may endanger personnel or place delicate electronics at risk.
- Several printable heights and widths available.

**Temperature rating**

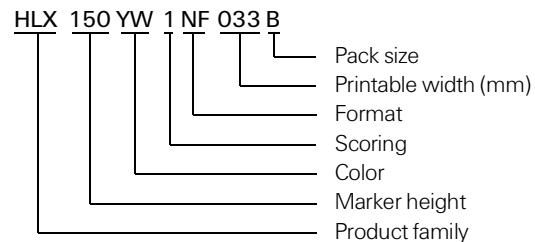
Operating temperature range -30°C to +105°C -22°F to +221°F

Specifications/approvals

Tyco	RW 2067
Military	SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	UL 224 (clause 14) BS 4G 198 Part 3 ASTM D 2671

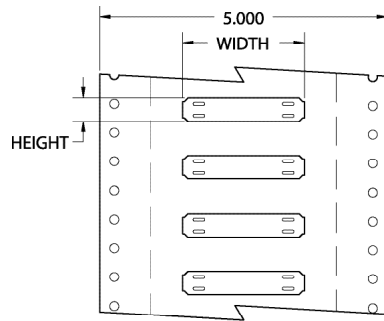
Printer information

Tyco printer	T312M (thermal transfer)
Tyco ribbon	1910-RIBBON-4T300 (thermal transfer)

Part numbering system

HLX Low fire hazard cable marker tags (Cont'd)

Ordering information



Available sizes and formats

Ordering description	Marker dimensions (W X H)		Printable area (W X H)		Pack size	
	mm	inches	mm	inches	NF	TS
HLX104<color>1<format>025B	45.00 x 10.40	<i>1.800 x 0.400</i>	25.00 x 10.40	<i>1.000 x 0.400</i>	550	1000
HLX104<color>1<format>033B	52.00 x 10.40	<i>2.100 x 0.400</i>	33.00 x 10.40	<i>1.300 x 0.400</i>	550	1000
HLX104<color>1<format>038B	58.00 x 10.40	<i>2.300 x 0.400</i>	38.00 x 10.40	<i>1.500 x 0.400</i>	550	1000
HLX104<color>1<format>050B	70.00 x 10.40	<i>2.750 x 0.400</i>	50.00 x 10.40	<i>2.000 x 0.400</i>	550	1000
HLX104<color>1<format>070B	90.00 x 10.40	<i>3.500 x 0.400</i>	70.00 x 10.40	<i>2.750 x 0.400</i>	550	1000
HLX150<color>1<format>025B	45.00 x 15.00	<i>1.800 x 0.600</i>	25.00 x 15.00	<i>1.000 x 0.600</i>	550	500
HLX150<color>1<format>033B	52.00 x 15.00	<i>2.100 x 0.600</i>	33.00 x 15.00	<i>1.300 x 0.600</i>	550	500
HLX150<color>1<format>038B	58.00 x 15.00	<i>2.300 x 0.600</i>	38.00 x 15.00	<i>1.500 x 0.600</i>	550	500
HLX150<color>1<format>050B	70.00 x 15.00	<i>2.750 x 0.600</i>	50.00 x 15.00	<i>2.000 x 0.600</i>	550	500
HLX150<color>1<format>070B	90.00 x 15.00	<i>3.500 x 0.600</i>	70.00 x 15.00	<i>2.750 x 0.600</i>	550	500
HLX203<color>1<format>025B	45.00 x 20.30	<i>1.800 x 0.800</i>	25.00 x 20.30	<i>1.000 x 0.800</i>	550	500
HLX203<color>1<format>033B	52.00 x 20.30	<i>2.100 x 0.800</i>	33.00 x 20.30	<i>1.300 x 0.800</i>	550	500
HLX203<color>1<format>038B	58.00 x 20.30	<i>2.300 x 0.800</i>	38.00 x 20.30	<i>1.500 x 0.800</i>	550	500
HLX203<color>1<format>050B	70.00 x 20.30	<i>2.750 x 0.800</i>	50.00 x 20.30	<i>2.000 x 0.800</i>	550	500
HLX203<color>1<format>070B	90.00 x 20.30	<i>3.500 x 0.800</i>	70.00 x 20.30	<i>2.750 x 0.800</i>	550	500
HLX253<color>1<format>025B	45.00 x 25.30	<i>1.800 x 1.000</i>	25.00 x 25.30	<i>1.000 x 1.000</i>	300	250
HLX253<color>1<format>033B	52.00 x 25.30	<i>2.100 x 1.000</i>	33.00 x 25.30	<i>1.300 x 1.000</i>	300	250
HLX253<color>1<format>038B	58.00 x 25.30	<i>2.300 x 1.000</i>	38.00 x 25.30	<i>1.500 x 1.000</i>	300	250
HLX253<color>1<format>050B	70.00 x 25.30	<i>2.750 x 1.000</i>	50.00 x 25.30	<i>2.000 x 1.000</i>	300	250
HLX253<color>1<format>070B	90.00 x 25.30	<i>3.500 x 1.000</i>	70.00 x 25.30	<i>2.750 x 1.000</i>	300	250

Options

Prescoring	Not available on these products – this should always be 1.		
Package sizes	Standard	B	
Colors	Standard	White	Yellow
	Code	WE	YW
Nonstandard	Red	Blue	
	Code	RD	BE
Format	NF – Dot matrix printing (fanfold/single sided)		
	TS – Thermal transfer (reel/single sided)		
Printable width on marker	025	25mm (1")	
	033	33mm (1.3")	
	038	38mm (1.5")	
	050	50mm (2")	
	070	70mm (2.75")	

Ordering information: Specify product name, marker height, color, scoring option (always 1), format, printable width, and pack size.

Ordering example: HLX150YW1NF033B

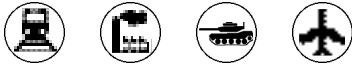
D-SCE Fluid resistant computer-printable permanent wire identification sleeves

D-SCE markers are used to identify wires and cables where exposure to organic fluids, especially oils, is required. D-SCE markers are designed to operate in these conditions at elevated temperatures for extended periods of time, making them ideal in aerospace, rail and construction industries. The D-SCE markers are suitable for use in environments with temperatures of -55°C to $+135^{\circ}\text{C}$ (-67°F to $+275^{\circ}\text{F}$), and will provide strain relief, insulation and protection from mechanical abuse. The 3:1 shrink ratio markers* are assembled in a ladder format enabling sleeves to be printed on both sides for maximum data content and readability.

*See ordering description.

Features and benefits

- Resistance to organic fluids, common fuels, lubricants and solvents.
- 3:1 shrink ratio.
- Wide range of sizes for several wire and bundle diameters.
- Formulated for use in aerospace, rail and construction equipment.
- Dot matrix and thermal transfer printable — both print technologies meet all specifications and approvals listed.



Temperature rating

Operating temperature range	-55°C to $+135^{\circ}\text{C}$	-67°F to $+275^{\circ}\text{F}$
Minimum recovery temperature	$+135^{\circ}\text{C}$	$+275^{\circ}\text{F}$
Maximum storage temperature	$+40^{\circ}\text{C}$	$+104^{\circ}\text{F}$

Specifications/approvals

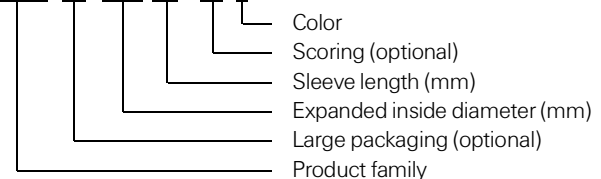
Tyco	RW 2028
Military	SAE-AMS-DTL-23053/6, Class 1 (material and performance requirements) SAE AS81531 4.6.2 MIL-STD-202F Method 215J
Industry	NF F 00 608 Category A and H

Printer information

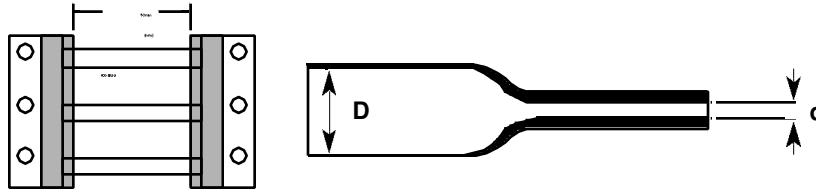
Tyco printer	LQ870 (dot matrix) T312M (thermal transfer)
Tyco ribbon	TMS-SIX-RIBBON-A (dot matrix) 1950-RIBBON-4T300 (thermal transfer)

Part numbering system

D-SCE - 5K - 3.2 - 50 - S1 - 4



Ordering information



Available sizes and formats

Ordering description	Inside diameter		Recommended use range			
	D (min)	d (max)				
	As supplied	After recovery				
	mm	inches	mm	inches		
D-SCE-1K-2.4-50<color>	2.39	0.094	0.79	0.031	0.81 - 1.90	0.032 - 0.075
D-SCE-1K-3.2-50<color>	3.18	0.125	1.07	0.043	1.11 - 2.66	0.044 - 0.105
D-SCE-1K-4.8-50<color>	4.75	0.187	1.57	0.063	1.75 - 4.06	0.069 - 0.160
D-SCE-1K-6.4-50<color>	6.35	0.250	2.11	0.084	2.31 - 5.46	0.091 - 0.215
D-SCE-1K-9.5-50<color>	9.53	0.375	3.18	0.125	3.47 - 8.12	0.137 - 0.320
D-SCE-1K-12.5-50<color>	12.70	0.500	4.22	0.167	4.64 - 10.79	0.183 - 0.425
D-SCE-1K-18.5-50<color>	19.05	0.750	6.35	0.250	6.99 - 16.25	0.275 - 0.640
D-SCE-1K-25.5-50<color>	25.40	1.000	8.46	0.333	9.29 - 21.59	0.366 - 0.850
D-SCE-1K-38.5-50<color>*	38.10	1.500	19.05	0.750	20.95 - 33.02	0.825 - 1.300

* 2:1 shrink ratio

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 D-SCE sleeve.		
	Standard	Side scored	
	Number of prescores	1 prescore	2 prescores
Code	S1	S2	S3
Package sizes	Standard	1K - 1000 piece packages available for all D-SCE sizes	
	Nonstandard	Larger pack sizes are available. Please contact Tyco.	
Colors	Standard	White	Yellow
	Code	9	4
	Nonstandard	Pink	Blue
Code	2L	6	

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

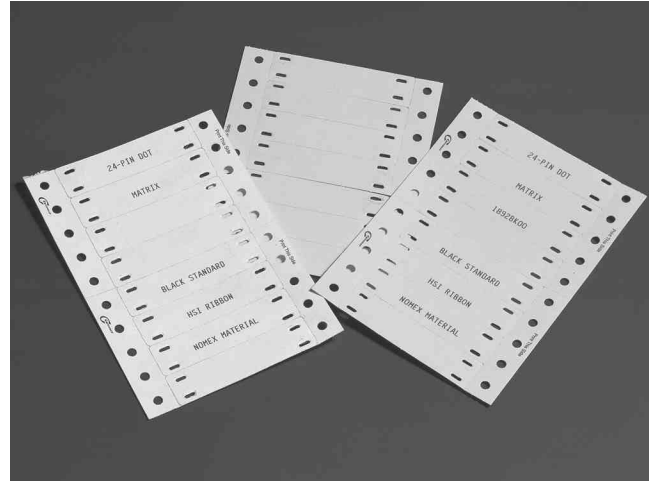
Ordering example: D-SCE-1K-6.4-50-S2-4

NMX Flame retarded polyaramid cable marker tags

NMX cable marker tags are used for identification of cables and wire bundles by computer-based printing onto markers. The markers are attached using cable ties. They are ideal for aerospace and other cases where resistance to harsh environments and light weight are important.

Features and benefits

- Extremely light weight.
- Ultimate tensile strength and tear resistance.
- Flame retardant.
- Resistant to several avionic fluids, solvents and cleaners.
- Dot matrix printable.
- Available in white and yellow printable areas.



Temperature rating

Operating temperature range -40°C to $+135^{\circ}\text{C}$ -40°F to $+275^{\circ}\text{F}$

Specifications/approvals

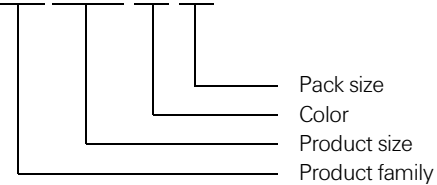
Military	SAE AS81531 4.6.2, MIL-STD-202F Method 215J
Industry	DMS 2325, DMS 2409

Printer information

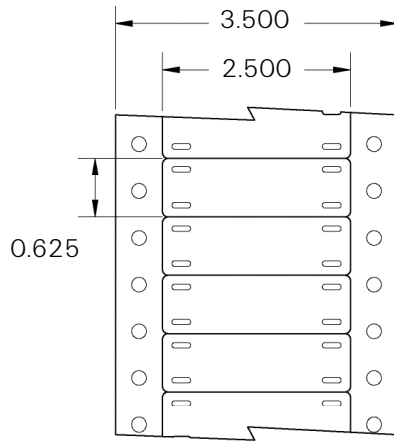
Tyco printer	AM6310 (dot matrix)
Tyco ribbon	1892 BK01 (dot matrix)

Part numbering system

NMX 25625 WE 2.5



Ordering information



Available sizes and formats

Ordering description	Label width		Label height		Printable width		Weight (g/10 pcs.)
	mm	<i>inches</i>	mm	<i>inches</i>	mm	<i>inches</i>	
NMX25625<color>2.5	63.50	<i>2.500</i>	15.87	<i>0.625</i>	50.80	<i>2.000</i>	2.5

Options

Package sizes	Standard	2500 pieces per pack
	Nonstandard	Larger pack sizes are available. Please contact Tyco.
Colors	White	Yellow
	WE	YE

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

Ordering example: NMX25625WE2.5