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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 AS81531 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 Electronics-recommended printer. Tyco Electronics-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.

TMS-SCE Military Grade Heat Shrinkable Wire Identification Sleeves

Temperature Rating

<table>
<thead>
<tr>
<th>Temperature Range</th>
<th>Operating temperature range</th>
<th>Minimum recovery temperature</th>
<th>Maximum storage temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-55°C to +135°C</td>
<td>+85°C</td>
<td>+40°C</td>
</tr>
<tr>
<td></td>
<td>-67°F to +275°F</td>
<td>+185°F</td>
<td>+104°F</td>
</tr>
</tbody>
</table>

Specifications/Approvals

| Tyco Electronics | RW-2511                      |
| Industry         | UL Recognized – Standard 224, file E35586, CSA Certified – File 31929 |

Printer Information

<table>
<thead>
<tr>
<th>Tyco Electronics printer</th>
<th>AM6310 (dot matrix)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T200 Series (thermal transfer, low volume)</td>
<td></td>
</tr>
<tr>
<td>T312M (thermal transfer)</td>
<td></td>
</tr>
<tr>
<td>Tyco Electronics ribbon</td>
<td>1892BK04-RIBBON (dot matrix)</td>
</tr>
<tr>
<td>TMS-101-RIBBON-4RPSCE (thermal transfer for T208M)</td>
<td></td>
</tr>
<tr>
<td>TMS-RUS-RIBBON-4RPSCE (thermal transfer for T312M)</td>
<td></td>
</tr>
</tbody>
</table>

Part Numbering System

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

- Color
- Scoring (optional)
- Sleeve length (2.0” nominal) (omit for 2X)
- Inside diameter, as supplied (in inches)
- Standard Pack (1,000 pieces)
- 2X is optional (2:1 shrink ratio; if left out, product will be 3:1) will be 3:1
- Product family
### Ordering Information

**Available Sizes and Formats**

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Inside Diameter</th>
<th>Expanded (minimum)</th>
<th>Recovered (maximum)</th>
<th>Recommended Use Range</th>
<th>Recovered Wall Thickness</th>
<th>Weight (g/10 pcs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMS-SCE-1K-3/32-2.0</td>
<td>2.36 mm/0.093</td>
<td>0.79 0.031</td>
<td>0.81 - 1.90</td>
<td>0.032 - 0.075</td>
<td>0.53 ± 0.08</td>
<td>0.027 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-3/32-2.0</td>
<td>2.36 mm/0.093</td>
<td>1.17 0.046</td>
<td>1.27 - 1.90</td>
<td>0.050 - 0.075</td>
<td>0.64 ± 0.08</td>
<td>0.029 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-1/8-2.0</td>
<td>3.18 mm/0.125</td>
<td>1.07 0.042</td>
<td>1.11 - 2.66</td>
<td>0.044 - 0.105</td>
<td>0.58 ± 0.06</td>
<td>0.023 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-1/8-2.0</td>
<td>3.18 mm/0.125</td>
<td>1.58 0.062</td>
<td>1.75 - 2.66</td>
<td>0.069 - 0.105</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-3/16-2.0</td>
<td>4.75 mm/0.187</td>
<td>1.57 0.062</td>
<td>1.75 - 4.06</td>
<td>0.069 - 0.160</td>
<td>0.58 ± 0.06</td>
<td>0.023 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-3/16-2.0</td>
<td>4.75 mm/0.187</td>
<td>2.36 0.093</td>
<td>2.54 - 4.06</td>
<td>0.100 - 0.160</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-1/4-2.0</td>
<td>6.35 mm/0.250</td>
<td>2.11 0.083</td>
<td>2.31 - 5.46</td>
<td>0.091 - 0.215</td>
<td>0.58 ± 0.08</td>
<td>0.023 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-1/4-2.0</td>
<td>6.35 mm/0.250</td>
<td>3.18 0.125</td>
<td>3.81 - 5.46</td>
<td>0.150 - 0.215</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-3/8-2.0</td>
<td>9.53 mm/0.375</td>
<td>3.18 0.125</td>
<td>3.47 - 8.12</td>
<td>0.137 - 0.320</td>
<td>0.61 ± 0.08</td>
<td>0.024 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-3/8-2.0</td>
<td>9.53 mm/0.375</td>
<td>4.75 0.187</td>
<td>5.59 - 8.12</td>
<td>0.220 - 0.320</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-1/2-2.0</td>
<td>12.70 mm/0.500</td>
<td>4.22 0.166</td>
<td>4.64 - 10.79</td>
<td>0.183 - 0.425</td>
<td>0.61 ± 0.08</td>
<td>0.024 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-1/2-2.0</td>
<td>12.70 mm/0.500</td>
<td>6.35 0.250</td>
<td>6.99 - 10.79</td>
<td>0.275 - 0.425</td>
<td>0.64 ± 0.08</td>
<td>0.026 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-3/4-2.0</td>
<td>19.05 mm/0.750</td>
<td>6.35 0.250</td>
<td>6.99 - 16.25</td>
<td>0.275 - 0.640</td>
<td>0.61 ± 0.08</td>
<td>0.024 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-2X-1K-3/4-2.0</td>
<td>19.05 mm/0.750</td>
<td>9.53 0.375</td>
<td>10.16 - 16.25</td>
<td>0.400 - 0.640</td>
<td>0.76 ± 0.06</td>
<td>0.030 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-1/2-2.0</td>
<td>25.40 mm/1.000</td>
<td>8.46 0.333</td>
<td>9.29 - 21.59</td>
<td>0.366 - 0.850</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-3/4-2.0</td>
<td>38.10 mm/1.500</td>
<td>19.05 0.750</td>
<td>20.95 - 33.02</td>
<td>0.825 - 1.300</td>
<td>0.51 ± 0.08</td>
<td>0.020 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-3/2-2.0</td>
<td>50.80 mm/2.000</td>
<td>25.40 1.000</td>
<td>27.94 - 44.95</td>
<td>1.100 - 1.750</td>
<td>0.64 ± 0.08</td>
<td>0.025 ± 0.003</td>
</tr>
<tr>
<td>TMS-SCE-1K-21/2-2.0</td>
<td>57.15 mm/2.250</td>
<td>19.05 0.750</td>
<td>22.32 - 50.80</td>
<td>0.880 - 2.000</td>
<td>0.76 ± 0.08</td>
<td>0.030 ± 0.003</td>
</tr>
</tbody>
</table>

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 Electronics.
- **Fanfolded**: Fanfolded option available for use with dot matrix printers
- **Colors**: Standard Yellow, White
  - 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)
CM-SCE Polyolefin Tie-on Cable Marker Tags

CM-SCE markers are flat, rigid, non-adhesive labels that can be used to identify large cables and wire bundles in environments such as military and aerospace. Marker tags are applied to cables or wire bundles with cable ties.

Print performance meets or exceeds the requirements of SAE AS81531 4.6.2 and MIL-STD-202F.

Features and Benefits
- Side entry provides access to big size and wire bundles as well as retrofit and repair capability.
- Highly flame-retardant.
- Highly resistant to abrasion, mechanical abuses, fluids, lubricants and solvents.
- Ease of use: markers can be easily removed from the carrier.
- Easy installation: only standard cable tie-wraps are needed to install markers. No extra steps required.
- Excellent print permanence when printing on the rough side of the marker.

Specifications/Approvals
- Tyco Electronics RW-2513
- Military Mark permanence: SAE AS81531 4.6.2

Printer Information
- Tyco Electronics printer AM6310 (dot matrix)
- T312M (thermal transfer)
- Tyco Electronics ribbon 1892BK04-RIBBON (dot matrix)
- 1966-RIBBON (thermal transfer)

Temperature Rating
- Operating temperature range: −55°C to +135°C
- −67°F to +275°F

Part Numbering System
- CM-SCE - 2.5K - 1/4 - 4H-9

Color
- Tie-wrap holes
- Markable height of marker (in.)
- Pack size
- Product family

Dimensions are shown for reference purposes only. Specifications subject to change.

Catalog 7-1773446-2
Revised 10-07

www.tycoelectronics.com
### CM-SCE Polyolefin Tie-on Cable Marker Tags (Continued)

#### Ordering Information

![Figure 1 CM-SCE-1/4 INCH](Image)

#### Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Size</th>
<th>Markable Height</th>
<th>Markable Length</th>
<th>Recommended Use Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>CM-SCE-1/4-6H- &lt;color&gt;</td>
<td>1/4</td>
<td>6.40 0.250</td>
<td>50.80 2.000</td>
<td>5.08 – 12.50 0.200 – 0.492</td>
</tr>
<tr>
<td>CM-SCE-1/4-4H- &lt;color&gt;</td>
<td>1/4</td>
<td>6.40 0.250</td>
<td>50.80 2.000</td>
<td>5.08 – 12.50 0.200 – 0.492</td>
</tr>
<tr>
<td>CM-SCE-TP-1/4-4H- &lt;color&gt;*</td>
<td>1/4</td>
<td>6.40 0.250</td>
<td>50.80 2.000</td>
<td>5.08 – 12.50 0.200 – 0.492</td>
</tr>
<tr>
<td>CM-SCE-1/2-4H- &lt;color&gt;</td>
<td>1/2</td>
<td>12.70 0.500</td>
<td>50.80 2.000</td>
<td>12.50 and up 0.492 and up</td>
</tr>
<tr>
<td>CM-SCE-TP-1/2-4H- &lt;color&gt;*</td>
<td>1/2</td>
<td>12.70 0.500</td>
<td>50.80 2.000</td>
<td>12.50 and up 0.492 and up</td>
</tr>
<tr>
<td>CM-SCE-1/2-6H- &lt;color&gt;</td>
<td>1/2</td>
<td>12.70 0.500</td>
<td>50.80 2.000</td>
<td>12.50 and up 0.492 and up</td>
</tr>
<tr>
<td>CM-SCE-TP-1/2-6H- &lt;color&gt;*</td>
<td>1/2</td>
<td>12.70 0.500</td>
<td>50.80 2.000</td>
<td>12.50 and up 0.492 and up</td>
</tr>
</tbody>
</table>

* for thermal transfer printing

#### Options

<table>
<thead>
<tr>
<th>Tie-wrap holes</th>
<th>1/4-inch tags</th>
<th>Four holes standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2-inch tags</td>
<td>Four holes</td>
<td>Six holes</td>
</tr>
<tr>
<td>Code</td>
<td>4H</td>
<td>6H</td>
</tr>
<tr>
<td>Fanfold Code</td>
<td>Fx (substitute package size code for &quot;x&quot;)</td>
<td></td>
</tr>
<tr>
<td>Package sizes</td>
<td>Standard 250 pieces</td>
<td></td>
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<tr>
<td>Colors</td>
<td>Standard White</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Nonstandard</td>
<td>Yellow</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

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 Electronics 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 UL 224 (clause 14) standards.
- Single sided and double sided printing formats available.
- Standard dot matrix printable. Contact Tyco Electronics 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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>–55°C to +135°C</td>
</tr>
<tr>
<td>Minimum recovery temperature</td>
<td>+120°C</td>
</tr>
<tr>
<td>Maximum storage temperature</td>
<td>+40°C</td>
</tr>
<tr>
<td></td>
<td>+104°F</td>
</tr>
<tr>
<td></td>
<td>+248°F</td>
</tr>
</tbody>
</table>

Specifications/Approvals

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

Part Numbering System

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HS</td>
<td>Product family</td>
</tr>
<tr>
<td>048</td>
<td>Pack size</td>
</tr>
<tr>
<td>YW</td>
<td>Sleeve length (mm)</td>
</tr>
<tr>
<td>1</td>
<td>Format</td>
</tr>
<tr>
<td>NF</td>
<td>Scoring</td>
</tr>
<tr>
<td>050</td>
<td>Color</td>
</tr>
<tr>
<td>-B</td>
<td>Inside diameter as supplied (mm)</td>
</tr>
</tbody>
</table>
Heat Shrink/Cable Markers

## HS 2:1 Shrink Ratio Heat Shrinkable Wire Identification System (Continued)

### Ordering Information

![Diagram of ordering information]

### Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Inside Diameter</th>
<th>Recommended Use Range</th>
<th>Pack Size (uncut sleeves)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D (min) As Supplied</td>
<td>d (max) After Recovery</td>
<td>NF(B)</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
</tr>
<tr>
<td>HS024-&lt;color-prescore-format-length-pack size&gt;2.40</td>
<td>0.093</td>
<td>1.17</td>
<td>0.050</td>
</tr>
<tr>
<td>HS032-&lt;color-prescore-format-length-pack size&gt;3.20</td>
<td>0.126</td>
<td>1.58</td>
<td>0.060</td>
</tr>
<tr>
<td>HS046-&lt;color-prescore-format-length-pack size&gt;4.80</td>
<td>0.189</td>
<td>2.36</td>
<td>0.090</td>
</tr>
<tr>
<td>HS064-&lt;color-prescore-format-length-pack size&gt;6.35</td>
<td>0.250</td>
<td>3.18</td>
<td>0.125</td>
</tr>
<tr>
<td>HS095-&lt;color-prescore-format-length-pack size&gt;9.53</td>
<td>0.374</td>
<td>4.75</td>
<td>0.187</td>
</tr>
<tr>
<td>HS127-&lt;color-prescore-format-length-pack size&gt;12.70</td>
<td>0.500</td>
<td>6.35</td>
<td>0.250</td>
</tr>
<tr>
<td>HS190-&lt;color-prescore-format-length-pack size&gt;19.05</td>
<td>0.750</td>
<td>9.53</td>
<td>0.375</td>
</tr>
<tr>
<td>HS254-&lt;color-prescore-format-length-pack size&gt;25.40</td>
<td>1.000</td>
<td>12.70</td>
<td>0.500</td>
</tr>
<tr>
<td>HS381-&lt;color-prescore-format-length-pack size&gt;38.10</td>
<td>1.500</td>
<td>19.05</td>
<td>0.750</td>
</tr>
</tbody>
</table>

### 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: 12346* (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 (WE), Yellow (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
- 050: 50 mm (2”) – narrow format
- 152: 152 mm (6”) – wide format

### Ordering Information

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

Ordering example: HS032WE2NF038B
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°C (–67°F to +275°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°C for 168 hours or +250°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°C–65°F to +275°F

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

**Printer Information**
- Tyco Electronics printer AM 6310 (dot matrix)
- T312M (thermal transfer)
- Tyco Electronics ribbon 1892BK04 (dot matrix)
- 1892BK03 (dot matrix — high performance)
- 1950-RIBBON-4T300 (thermal transfer)

**Part Numbering System**

- HL -150-YW-1-NF -033-B
- Pack size
- Printable width (mm)
- Format
- Scoring
- Color
- Marker height
- Product family

---

**Notes:**
- Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.
- Specifications subject to change.
### Ordering Information

**Available Sizes and Formats**

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Marker Dimensions (W X H)</th>
<th>Printable Area (W X H)</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm inches</td>
<td>mm inches</td>
<td>NF TS</td>
</tr>
<tr>
<td>HL104-cooler=1, format=025B</td>
<td>45.00 x 10.40 1.800 x 0.400</td>
<td>25.00 x 10.40 1.000 x 0.400</td>
<td>550 1000</td>
</tr>
<tr>
<td>HL104-cooler=1, format=033B</td>
<td>52.00 x 10.40 2.100 x 0.400</td>
<td>33.00 x 10.40 1.300 x 0.400</td>
<td>550 1000</td>
</tr>
<tr>
<td>HL104-cooler=1, format=038B</td>
<td>58.00 x 10.40 2.300 x 0.400</td>
<td>38.00 x 10.40 1.500 x 0.400</td>
<td>550 1000</td>
</tr>
<tr>
<td>HL104-cooler=1, format=050B</td>
<td>70.00 x 10.40 2.750 x 0.400</td>
<td>50.00 x 10.40 2.000 x 0.400</td>
<td>550 1000</td>
</tr>
<tr>
<td>HL104-cooler=1, format=070B</td>
<td>90.00 x 10.40 3.500 x 0.400</td>
<td>70.00 x 10.40 2.750 x 0.400</td>
<td>550 1000</td>
</tr>
<tr>
<td>HL150-cooler=1, format=025B</td>
<td>45.00 x 15.00 1.800 x 0.600</td>
<td>25.00 x 15.00 1.000 x 0.600</td>
<td>550 500</td>
</tr>
<tr>
<td>HL150-cooler=1, format=033B</td>
<td>52.00 x 15.00 2.100 x 0.600</td>
<td>33.00 x 15.00 1.300 x 0.600</td>
<td>550 500</td>
</tr>
<tr>
<td>HL150-cooler=1, format=038B</td>
<td>58.00 x 15.00 2.300 x 0.600</td>
<td>38.00 x 15.00 1.500 x 0.600</td>
<td>550 500</td>
</tr>
<tr>
<td>HL150-cooler=1, format=050B</td>
<td>70.00 x 15.00 2.750 x 0.600</td>
<td>50.00 x 15.00 2.000 x 0.600</td>
<td>550 500</td>
</tr>
<tr>
<td>HL150-cooler=1, format=070B</td>
<td>90.00 x 15.00 3.500 x 0.600</td>
<td>70.00 x 15.00 2.750 x 0.600</td>
<td>550 500</td>
</tr>
<tr>
<td>HL203-cooler=1, format=025B</td>
<td>45.00 x 20.30 1.800 x 0.800</td>
<td>25.00 x 20.30 1.000 x 0.800</td>
<td>550 500</td>
</tr>
<tr>
<td>HL203-cooler=1, format=033B</td>
<td>52.00 x 20.30 2.100 x 0.800</td>
<td>33.00 x 20.30 1.300 x 0.800</td>
<td>550 500</td>
</tr>
<tr>
<td>HL203-cooler=1, format=038B</td>
<td>58.00 x 20.30 2.300 x 0.800</td>
<td>38.00 x 20.30 1.500 x 0.800</td>
<td>550 500</td>
</tr>
<tr>
<td>HL203-cooler=1, format=050B</td>
<td>70.00 x 20.30 2.750 x 0.800</td>
<td>50.00 x 20.30 2.000 x 0.800</td>
<td>550 500</td>
</tr>
<tr>
<td>HL203-cooler=1, format=070B</td>
<td>90.00 x 20.30 3.500 x 0.800</td>
<td>70.00 x 20.30 2.750 x 0.800</td>
<td>550 500</td>
</tr>
<tr>
<td>HL253-cooler=1, format=025B</td>
<td>45.00 x 25.30 1.800 x 1.000</td>
<td>25.00 x 25.30 1.000 x 1.000</td>
<td>300 250</td>
</tr>
<tr>
<td>HL253-cooler=1, format=033B</td>
<td>52.00 x 25.30 2.100 x 1.000</td>
<td>33.00 x 25.30 1.300 x 1.000</td>
<td>300 250</td>
</tr>
<tr>
<td>HL253-cooler=1, format=038B</td>
<td>58.00 x 25.30 2.300 x 1.000</td>
<td>38.00 x 25.30 1.500 x 1.000</td>
<td>300 250</td>
</tr>
<tr>
<td>HL253-cooler=1, format=050B</td>
<td>70.00 x 25.30 2.750 x 1.000</td>
<td>50.00 x 25.30 2.000 x 1.000</td>
<td>300 250</td>
</tr>
<tr>
<td>HL253-cooler=1, format=070B</td>
<td>90.00 x 25.30 3.500 x 1.000</td>
<td>70.00 x 25.30 2.750 x 1.000</td>
<td>300 250</td>
</tr>
</tbody>
</table>

### 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**

<table>
<thead>
<tr>
<th>Format</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>025</td>
<td>25mm (1&quot;)</td>
</tr>
<tr>
<td>033</td>
<td>33mm (1.3&quot;)</td>
</tr>
<tr>
<td>038</td>
<td>38mm (1.5&quot;)</td>
</tr>
<tr>
<td>050</td>
<td>50mm (2&quot;)</td>
</tr>
<tr>
<td>070</td>
<td>70mm (2.75&quot;)</td>
</tr>
</tbody>
</table>

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

Ordering example: HL150YW1NF033B
Tyco Electronics’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 of high importance. 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 Electronics 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 Electronics RW2512
- Military SAE AS 81531 4.6.2
- MIL-STD-202F Method 215J

**Printer Information**

- Tyco Electronics printer T312M (thermal transfer)
- Tyco Electronics ribbon TMS-RJS-ROBON-4HT (thermal transfer)
HT-SCE High Temperature, Low Outgassing Heat Shrinkable Wire Identification Sleeves (Continued)

Ordering Information

Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Inside Diameter</th>
<th>D (min) As Supplied</th>
<th>d (max) After Recovery</th>
<th>Recommended Use Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm inches</td>
<td>mm inches</td>
<td>mm inches</td>
<td>mm inches</td>
</tr>
<tr>
<td>HT-SCE-1K-3/32-2.0-&lt;color&gt;</td>
<td>2.36 0.093</td>
<td>0.79 0.031</td>
<td>0.81 - 1.90</td>
<td>0.032 - 0.075</td>
</tr>
<tr>
<td>HT-SCE-1K-1/8-2.0-&lt;color&gt;</td>
<td>3.18 0.125</td>
<td>1.58 0.062</td>
<td>1.75 - 2.66</td>
<td>0.069 - 0.105</td>
</tr>
<tr>
<td>HT-SCE-1K-3/16-2.0-&lt;color&gt;</td>
<td>4.75 0.187</td>
<td>2.36 0.093</td>
<td>2.54 - 4.06</td>
<td>0.100 - 0.160</td>
</tr>
<tr>
<td>HT-SCE-1K-1/4-2.0-&lt;color&gt;</td>
<td>6.35 0.250</td>
<td>3.18 0.125</td>
<td>3.40 - 6.00</td>
<td>0.134 - 0.236</td>
</tr>
<tr>
<td>HT-SCE-1K-3/8-2.0-&lt;color&gt;</td>
<td>9.53 0.375</td>
<td>4.75 0.187</td>
<td>5.30 - 8.10</td>
<td>0.209 - 0.319</td>
</tr>
<tr>
<td>HT-SCE-1K-1/2-2.0-&lt;color&gt;</td>
<td>12.70 0.500</td>
<td>6.35 0.250</td>
<td>6.60 - 11.40</td>
<td>0.260 - 0.449</td>
</tr>
<tr>
<td>HT-SCE-1K-1/4-2.0-&lt;color&gt;</td>
<td>16.00 0.709</td>
<td>9.00 0.354</td>
<td>9.90 - 15.30</td>
<td>0.390 - 0.602</td>
</tr>
<tr>
<td>HT-SCE-1K-1/2-2.0-&lt;color&gt;</td>
<td>25.40 1.000</td>
<td>12.70 0.500</td>
<td>13.30 - 23.00</td>
<td>0.524 - 0.906</td>
</tr>
<tr>
<td>HT-SCE-1K-11/2-2.0-&lt;color&gt;</td>
<td>38.10 1.500</td>
<td>19.05 0.750</td>
<td>20.95 - 34.00</td>
<td>0.825 - 1.339</td>
</tr>
</tbody>
</table>

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 Electronics.

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-1/4-2.0-S1-9
HTCM-SCE markers are flat, rigid, non-adhesive labels that can be used to identify large cables and wire bundles in high temperature environments and outer space applications where low vacuum outgassing is required. Marker tags are applied to cables or wire bundles using cable ties. Print performance meets or exceeds the requirements of SAE AS81531 4.6.2 and MIL-STD-202F.

**Features and Benefits**

- Side entry provides access to big size cables and wire bundles as well as retrofit and repair capability.
- High temperature use.
- Highly flame-retardant.
- Highly resistant to abrasion, mechanical abuses, fluids, lubricants and solvents.
- Low vacuum outgassing for outer space applications.
- Ease of use: markers can be easily removed from the carrier.
- Easy installation: only standard cable tie-wraps are needed to install markers. No extra steps required.
- Excellent print permanence when printing on the rough side of the marker.

**Temperature Rating**

Operating temperature range: –55°C to +225°C (-67°F to +437°F)

**Specifications/Approvals**

- Tyco Electronics RW25244
- Military Mark permanence: SAE AS81531 4.6.2

**Printer Information**

- Tyco Electronics printer: T312M (thermal transfer)
- Tyco Electronics ribbon: TMS-RJS-RIBBON-4HT (thermal transfer)

**Part Numbering System**

HTCM-SCE - 2.5K - 1/4 - 4H-9

- **Color**
- **Tie-wrap holes**
- **Markable height of marker (in.)**
- **Pack size**
- **Product family**
Heat Shrink/Cable Markers

HTCM-SCE High Temperature Tie-on-cable Marker Tags (Continued)

Ordering Information

Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Size</th>
<th>Markable Height</th>
<th>Markable Length</th>
<th>Recommended Use Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm</td>
<td>inches</td>
<td>mm</td>
<td>inches</td>
</tr>
<tr>
<td>HTCM-SCE-TP-1/4-4H-&lt;color&gt;</td>
<td>1/4</td>
<td>6.40</td>
<td>0.250</td>
<td>50.80</td>
</tr>
<tr>
<td>HTCM-SCE-TP-1/2-4H-&lt;color&gt;</td>
<td>1/2</td>
<td>12.70</td>
<td>0.500</td>
<td>50.80</td>
</tr>
<tr>
<td>HTCM-SCE-TP-1/2-6H-&lt;color&gt;</td>
<td>1/2</td>
<td>12.70</td>
<td>0.500</td>
<td>50.80</td>
</tr>
</tbody>
</table>

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 - 2.5K-1/4-4H-9
Thin wall, zero-halogen, low smoke, low toxicity, radiation cross-linked, UV stabilised polyolefin heat-shrinkable tubing, assembled as cut sleeves organized in a ladder format. Identification of wires and cables by computer-based printing onto sleeves. Ideal for applications where limited fire hazard characteristics are necessary. The zero halogen material coupled with low smoke and low toxic fume emissions make this product is best used in enclosed spaces such as mass transit, marine and industrial installations. This product is not recommended where strain relief properties are required.

Features and Benefits

■ Low fire hazard properties, low smoke, low toxicity, low flammability:- meets industry standard BS 6853 (1999) Vehicle Category 1a.
■ Superb print quality to give crisp clear identification marker sleeve.
■ Excellent print permanence when tested in demanding industry related fluids.
■ Choice of printer options.
■ Sleeve diameters from 2.4mm to 38.1mm.
■ Sleeve length from 12.7mm to 50.8mm.
■ Sleeves are printable on both sides for ease of identification or inclusion of additional information to the marker sleeve.
■ Shrink ratio of 2:1 - recovers to half of the original diameter.

Temperature Rating

<table>
<thead>
<tr>
<th>Range</th>
<th>°C</th>
<th>°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
<td>−30°C to +105°C</td>
<td>−22°F to +221°F</td>
</tr>
<tr>
<td>Minimum recovery temperature</td>
<td>+120°C</td>
<td>+248°F</td>
</tr>
<tr>
<td>Maximum storage temperature</td>
<td>+40°C</td>
<td>+104°F</td>
</tr>
</tbody>
</table>

Specifications/Approvals

Tyco Electronics RW 2072
Military SAE AS81531 4.6.2
MIL-STD-202F Method 215J
Industry BS 6853 [1999] – Vehicle Category 1a
LUL toxic fume (LUL E1042:A6 [2002])
- No halogen, O, N or S sources

Printer Information

Tyco Electronics printers T312M & T212M (thermal transfer)
Tyco Electronics ribbons
1966 - Ribbon (T312M)
T200 - Ribbon 1966 (T212M)

Part Numbering System

HX-SCE-1K·4.8 · 50 · S1·4

- Color
- Scoring (optional)
- Sleeve length (mm)
- Expanded inside diameter (in)
- Pack size
- Product family
# HX-SCE Zero Halogen Heat Shrinkable Wire Identification Sleeves

## Ordering Information

![Diagram of HX-SCE Heat Shrink/Cable Markers]

### Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Inside Diameter</th>
<th>Recommended Use Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>D (min) As Supplied</td>
<td>d (max) After Recovery</td>
</tr>
<tr>
<td></td>
<td>mm inches</td>
<td>mm inches</td>
</tr>
<tr>
<td>HX-SCE-1K-2.4 - 50- &lt;color&gt;</td>
<td>2.40 0.094</td>
<td>1.19 0.047</td>
</tr>
<tr>
<td>HX-SCE-1K-3.2 - 50- &lt;color&gt;</td>
<td>3.20 0.126</td>
<td>1.58 0.060</td>
</tr>
<tr>
<td>HX-SCE-1K-4.8 - 50- &lt;color&gt;</td>
<td>4.80 0.189</td>
<td>2.36 0.090</td>
</tr>
<tr>
<td>HX-SCE-1K-6.4 - 50- &lt;color&gt;</td>
<td>6.40 0.250</td>
<td>3.18 0.125</td>
</tr>
<tr>
<td>HX-SCE-1K-9.5 - 50- &lt;color&gt;</td>
<td>9.50 0.375</td>
<td>4.75 0.187</td>
</tr>
<tr>
<td>HX-SCE-1K-12.7 - 50- &lt;color&gt;</td>
<td>12.70 0.500</td>
<td>6.35 0.250</td>
</tr>
<tr>
<td>HX-SCE-1K-19.0 - 50- &lt;color&gt;</td>
<td>19.00 0.730</td>
<td>9.53 0.375</td>
</tr>
<tr>
<td>HX-SCE-1K-25.4 - 50- &lt;color&gt;</td>
<td>25.40 1.000</td>
<td>12.70 0.500</td>
</tr>
<tr>
<td>HX-SCE-1K-38.1 - 50- &lt;color&gt;</td>
<td>38.10 1.500</td>
<td>19.05 0.750</td>
</tr>
</tbody>
</table>

### Options

- **Prescoring**: Perforated score to produce multiple marker sleeves from each HX-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 HX-SCE sizes up to 25.4
  - Nonstandard 2.5K - 2500 pieces available for 4.8 and 6.4 HX-SCE sizes
  - 5K - 5000 pieces available for 2.4 and 3.2 HX-SCE sizes
  - 250 piece package available for all HX-SCE sizes

- **Colors**: Standard Yellow White
  - Nonstandard Red Green Blue Orange
  - Code: 4, 5, 6, 3

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

Ordering example: HX-SCE-1K–50-S1-4
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 necessary.

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 Electronics RW 2523
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 Electronics printer T312M (thermal transfer)
Tyco Electronics ribbon 1966-RIBBON

Part Numbering System

<table>
<thead>
<tr>
<th>HLX</th>
<th>150</th>
<th>YW</th>
<th>1 TS</th>
<th>033</th>
<th>B</th>
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</thead>
<tbody>
<tr>
<td>Pack size</td>
<td>Printable width (mm)</td>
<td>Format</td>
<td>Scoring</td>
<td>Color</td>
<td>Marker height</td>
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</table>

Catalog 7-1773446-2
Revised 10-07

www.tycoelectronics.com
Heat Shrink/Cable Markers

Ordering Information

Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Marker Dimensions (W X H)</th>
<th>Printable Area (W X H)</th>
<th>Pack Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm inches</td>
<td>mm inches</td>
<td>TS</td>
</tr>
<tr>
<td>HLX104&lt;color&gt;1&lt;format&gt;025B</td>
<td>45.00 x 10.40 1.800 x 0.400</td>
<td>25.00 x 10.40 1.000 x 0.400</td>
<td>1000</td>
</tr>
<tr>
<td>HLX104&lt;color&gt;1&lt;format&gt;033B</td>
<td>52.00 x 10.40 2.100 x 0.400</td>
<td>33.00 x 10.40 1.300 x 0.400</td>
<td>1000</td>
</tr>
<tr>
<td>HLX104&lt;color&gt;1&lt;format&gt;038B</td>
<td>58.00 x 10.40 2.300 x 0.400</td>
<td>38.00 x 10.40 1.500 x 0.400</td>
<td>1000</td>
</tr>
<tr>
<td>HLX104&lt;color&gt;1&lt;format&gt;050B</td>
<td>70.00 x 10.40 2.750 x 0.400</td>
<td>50.00 x 10.40 2.000 x 0.400</td>
<td>1000</td>
</tr>
<tr>
<td>HLX104&lt;color&gt;1&lt;format&gt;070B</td>
<td>90.00 x 10.40 3.500 x 0.400</td>
<td>70.00 x 10.40 2.750 x 0.400</td>
<td>1000</td>
</tr>
<tr>
<td>HLX150&lt;color&gt;1&lt;format&gt;025B</td>
<td>45.00 x 15.00 1.800 x 0.600</td>
<td>25.00 x 15.00 1.000 x 0.600</td>
<td>500</td>
</tr>
<tr>
<td>HLX150&lt;color&gt;1&lt;format&gt;033B</td>
<td>52.00 x 15.00 2.100 x 0.600</td>
<td>33.00 x 15.00 1.300 x 0.600</td>
<td>500</td>
</tr>
<tr>
<td>HLX150&lt;color&gt;1&lt;format&gt;038B</td>
<td>58.00 x 15.00 2.300 x 0.600</td>
<td>38.00 x 15.00 1.500 x 0.600</td>
<td>500</td>
</tr>
<tr>
<td>HLX150&lt;color&gt;1&lt;format&gt;050B</td>
<td>70.00 x 15.00 2.750 x 0.600</td>
<td>50.00 x 15.00 2.000 x 0.600</td>
<td>500</td>
</tr>
<tr>
<td>HLX150&lt;color&gt;1&lt;format&gt;070B</td>
<td>90.00 x 15.00 3.500 x 0.600</td>
<td>70.00 x 15.00 2.750 x 0.600</td>
<td>500</td>
</tr>
<tr>
<td>HLX203&lt;color&gt;1&lt;format&gt;025B</td>
<td>45.00 x 20.30 1.800 x 0.800</td>
<td>25.00 x 20.30 1.000 x 0.800</td>
<td>500</td>
</tr>
<tr>
<td>HLX203&lt;color&gt;1&lt;format&gt;033B</td>
<td>52.00 x 20.30 2.100 x 0.800</td>
<td>33.00 x 20.30 1.300 x 0.800</td>
<td>500</td>
</tr>
<tr>
<td>HLX203&lt;color&gt;1&lt;format&gt;038B</td>
<td>58.00 x 20.30 2.300 x 0.800</td>
<td>38.00 x 20.30 1.500 x 0.800</td>
<td>500</td>
</tr>
<tr>
<td>HLX203&lt;color&gt;1&lt;format&gt;050B</td>
<td>70.00 x 20.30 2.750 x 0.800</td>
<td>50.00 x 20.30 2.000 x 0.800</td>
<td>500</td>
</tr>
<tr>
<td>HLX203&lt;color&gt;1&lt;format&gt;070B</td>
<td>90.00 x 20.30 3.500 x 0.800</td>
<td>70.00 x 20.30 2.750 x 0.800</td>
<td>500</td>
</tr>
<tr>
<td>HLX253&lt;color&gt;1&lt;format&gt;025B</td>
<td>45.00 x 25.30 1.800 x 1.000</td>
<td>25.00 x 25.30 1.000 x 1.000</td>
<td>250</td>
</tr>
<tr>
<td>HLX253&lt;color&gt;1&lt;format&gt;033B</td>
<td>52.00 x 25.30 2.100 x 1.000</td>
<td>33.00 x 25.30 1.300 x 1.000</td>
<td>250</td>
</tr>
<tr>
<td>HLX253&lt;color&gt;1&lt;format&gt;038B</td>
<td>58.00 x 25.30 2.300 x 1.000</td>
<td>38.00 x 25.30 1.500 x 1.000</td>
<td>250</td>
</tr>
<tr>
<td>HLX253&lt;color&gt;1&lt;format&gt;050B</td>
<td>70.00 x 25.30 2.750 x 1.000</td>
<td>50.00 x 25.30 2.000 x 1.000</td>
<td>250</td>
</tr>
<tr>
<td>HLX253&lt;color&gt;1&lt;format&gt;070B</td>
<td>90.00 x 25.30 3.500 x 1.000</td>
<td>70.00 x 25.30 2.750 x 1.000</td>
<td>250</td>
</tr>
</tbody>
</table>

Options

- Prescoring: Not available on these products – this should always be 1.
- Package sizes: Standard B
- Colors: Standard White Yellow
  Nonstandard Red Blue
- Format: 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: HLX150YW1TS033B
RMK-6 is a computer printable labelstock with outstanding fluid and abrasion resistance, designed to be printed by impact dot matrix printers. When heat-cured after printing, its unique heat reactive epoxy surface "locks in" the image to combine the versatility and convenience of on-site printing with performance to meet the toughest conditions. A high performance acrylic adhesive ensures simple installation while maintaining excellent adhesion.

Typical applications are rating plate labels, component identification, and pipe and cable wraparound markers. Outdoor use is not recommended.

Features and Benefits
- Printable by dot matrix printers.
- Excellent fluid and abrasion resistance without an overlay.
- High performance acrylic adhesive.
- Low fire hazard properties.
- Indoor use only.

Temperature Rating
Operating temperature range
- Wiring marking: -40°C to +85°C
  -40°F to +185°F
- Panel marking: -40°C to +105°C
  -40°F to +221°F
- Excursion temperature: +200°C for 2 hours
- Storage conditions:
  - Unopened: 12 months at temperatures not exceeding +35°C (+95°F).
  - Opened: 6 months at temperatures not exceeding +25°C (+77°F) and 80% relative humidity
  - Curing: 4 - 6 minutes at 160°C in an air circulating oven.

Specifications/Approvals
Tyco Electronics RW2520
Industry UL MH17259 Group PGCU2

Printer Information
Tyco Electronics printer AM6310 (dot matrix)
Tyco Electronics ribbon 1892BK04 (dot matrix)

Part Numbering System
RMK6 - 8.5

Label height (mm) Product family
Heat Shrink/Cable Markers

**RMK-6 Computer Printable Epoxy Coated Labels** (Continued)

Ordering Information

![Diagram of ordering label size and format dimensions]

<table>
<thead>
<tr>
<th>Available Sizes and Formats</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ordering Description</strong></td>
</tr>
<tr>
<td>RMK6-4.2</td>
</tr>
<tr>
<td>RMK6-8.5</td>
</tr>
<tr>
<td>RMK6-12.7</td>
</tr>
<tr>
<td>RMK6-17.0</td>
</tr>
<tr>
<td>RMK6-25.4</td>
</tr>
<tr>
<td>RMK6-55.0</td>
</tr>
<tr>
<td>RMK6-WM*</td>
</tr>
</tbody>
</table>

*An uncut version for wraparound markers. Spool length = 40 meters.

Options

<table>
<thead>
<tr>
<th>Colors</th>
<th>Standard</th>
<th>White</th>
</tr>
</thead>
</table>

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Specifications subject to change.

Dimensions are shown for reference purposes only.

USA: 1-800-522-6752
Canada: 1-905-470-4425
Mexico: 52-55-1106-0800
C. America: 57-1-254-4444

South America: 55-11-2103-6000
Hong Kong: 852-2735-1629
Japan: 81-44-844-8013
UK: 44-208-420-8341
RMK Computer Printable Epoxy Coated Labels in a Sheet Form

RMK is a computer printable labelstock with outstanding fluid and abrasion resistance, designed to be printed by sheet fed inkjet printers. When heat-cured after printing its unique heat reactive epoxy surface "locks in" the image to combine the versatility and convenience of on-site printing with performance to meet the toughest conditions. A high performance acrylic adhesive ensures simple installation while maintaining excellent adhesion. A wide range of label sizes are available, supplied in A4 sheets for feeding through standard inkjet printers.

Typical applications are replacement of engraved metal or plastic labels, signs and tallies rating plate labels and color coding.

Features and Benefits
- High performance label material.
- High performance acrylic adhesive.
- A4 format sheet.
- Printable by color inkjet printers with sheet feed.
- Outstanding fluid and abrasion resistance without an overlay.
- Low fire hazard properties.
- Indoor use only.

<table>
<thead>
<tr>
<th>Temperature Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature range</td>
</tr>
<tr>
<td>Wiring marking: -40°C to +85°C, -40°F to +185°F</td>
</tr>
<tr>
<td>Panel marking: -40°C to +105°C, -40°F to +221°F</td>
</tr>
<tr>
<td>Excursion temperature: +200°C for 2 hours</td>
</tr>
<tr>
<td>Storage conditions:</td>
</tr>
<tr>
<td>Unopened: 12 months at temperatures not exceeding +35°C (+95°F)</td>
</tr>
<tr>
<td>Opened: 6 months at temperatures not exceeding +25°C (+77°F) and 80% relative humidity</td>
</tr>
<tr>
<td>Curing: 4 - 6 minutes at 160°C in an air circulating oven</td>
</tr>
</tbody>
</table>

Specifications/Approvals
- Tyco Electronics RW2518

Printer Information
- Various color inkjet printers can be used depending on the application, mainly HP800 or HP900 series if available.
- Tyco Electronics recommended printer: Epson 1520
- For further advice on possible alternative printers, contact Tyco Electronics.

Part Numbering System

RMK - 18x35 - A4

- Sheet size
- Label size (mm)
- Product family

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Specifications subject to change.
### Ordering information

![A4 sheet dimensions](image)

### Available Sizes and Formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Label Height (mm)</th>
<th>Label Width (mm)</th>
<th>Labels Per Sheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>RMK-9x25-A4</td>
<td>9</td>
<td>25</td>
<td>132</td>
</tr>
<tr>
<td>RMK-10x19-A4</td>
<td>10</td>
<td>19</td>
<td>160</td>
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<tr>
<td>RMK-11x40-A4</td>
<td>11</td>
<td>40</td>
<td>72</td>
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<tr>
<td>RMK-18x20-A4</td>
<td>18</td>
<td>20</td>
<td>96</td>
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<tr>
<td>RMK-18x25-A4</td>
<td>18</td>
<td>25</td>
<td>72</td>
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<td>RMK-18x35-A4</td>
<td>18</td>
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<tr>
<td>RMK-18x50-A4</td>
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<td>RMK-25x30-A4</td>
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<td>RMK-25x35-A4</td>
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<td>35</td>
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<td>RMK-25x75-A4</td>
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<td>RMK-25x100-A4</td>
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<td>30</td>
</tr>
<tr>
<td>RMK-60x100-A4</td>
<td>60</td>
<td>100</td>
<td>5</td>
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<td>RMK-75x150-A4</td>
<td>75</td>
<td>150</td>
<td>3</td>
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<tr>
<td>RMK-87x13-A4</td>
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<td>33</td>
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<td>RMK-87x25-A4</td>
<td>87</td>
<td>25</td>
<td>18</td>
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<tr>
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<td>25</td>
<td>6</td>
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<td>RMK-190x30-A4</td>
<td>190</td>
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<td>13</td>
<td>10</td>
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<tr>
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<td>13</td>
<td>11</td>
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<tr>
<td>RMK-250x25-A4</td>
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<td>25</td>
<td>6</td>
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<tr>
<td>RMK-UNCUT-A4</td>
<td>Uncut</td>
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### Options

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<thead>
<tr>
<th>Package size</th>
<th>Standard</th>
<th>50 sheets</th>
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</thead>
<tbody>
<tr>
<td>Color</td>
<td>Standard</td>
<td>White</td>
</tr>
</tbody>
</table>
Tyco Electronics Permark® 316 stainless steel markers are recommended for marking in hostile environments. Using state-of-the-art technology and no inks, the marking process produces a permanent, deep surface mark with a darkened character in high contrast to the background. Permark® markers are produced to individual customer requirements on a fast turn-around basis with the flexible and easy-to-use Permark® software that allows electronic or manual data entry. Completed markers are supplied in customer defined kits for ease of installation. We recommend installation with 316 stainless steel cable ties.

Features and Benefits
- Pre-marked to customer requirements.
- Customer-defined kits for ease of installation.
- Excellent character legibility.
- One-piece, 316 stainless steel construction.
- Variety of fixing methods.
- Mark will endure the lifetime of a Permark® S/S marker.
- Excellent resistance to weather extremes and high levels of UV light.
- Resistant to corrosive marine and industrial atmospheres.
- Excellent resistance to a variety of hydrocarbons, organic chemicals, acids, alkalis and inorganic salts. For resistance to a specific chemical, contact your local Tyco Electronics representative.

Temperature Rating
Operating temperature range –80°C to +500°C –112°F to +932°F

Printer Information
Pre-printed per customer requirements.

Part Numbering System
PM 0 75 07- E Data

Copy Type (Blank, E Data, or Hard Data)
Tag height (mm)
Tag length (mm)
Filler character
Permark®
## Heat Shrink/Cable Markers

### PERMARK® 316 (Continued)

#### Available sizes and formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Product Description</th>
<th>Size (L x H)</th>
<th>Printable Area (L x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM09512-Blank</td>
<td>95 x 12</td>
<td>3.74 x 0.47</td>
</tr>
<tr>
<td></td>
<td>PM09512-E Data</td>
<td>95 x 12</td>
<td>3.74 x 0.47</td>
</tr>
<tr>
<td></td>
<td>PM09512-Hard Data</td>
<td>95 x 12</td>
<td>3.74 x 0.47</td>
</tr>
</tbody>
</table>

*Data supplied electronically

**Data supplied in hard copy

#### Options

- **Fonts:** Various available
- **Lines per marker:** One, two or three (Determined by selected font height. Minimum 1 mm / 0.04" spacing between lines.)
- **Saddle fixings:** 13 mm L x 2.4 mm H (0.51" L x 0.09" H)
- **Hole fixings:** 7 mm (0.28")
- **Standard colors:** Metallic

#### Font heights

<table>
<thead>
<tr>
<th>Font heights</th>
<th>Characters Per Line</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Condensed</td>
</tr>
<tr>
<td>2.5 mm (0.10&quot;)</td>
<td>30</td>
</tr>
<tr>
<td>3.0 mm (0.12&quot;)</td>
<td>25</td>
</tr>
<tr>
<td>4.0 mm (0.16&quot;)</td>
<td>20</td>
</tr>
<tr>
<td>5.0 mm (0.20&quot;)</td>
<td>15</td>
</tr>
<tr>
<td>6.0 mm (0.24&quot;)</td>
<td>15</td>
</tr>
<tr>
<td>8.0 mm (0.31&quot;)</td>
<td>10</td>
</tr>
<tr>
<td>10.0 mm (0.40&quot;)</td>
<td>10</td>
</tr>
</tbody>
</table>

### Available sizes and formats

<table>
<thead>
<tr>
<th>Ordering Description</th>
<th>Product Description</th>
<th>Size (L x H)</th>
<th>Printable Area (L x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM07507- Blank</td>
<td>75 x 7</td>
<td>2.95 x 0.28</td>
</tr>
<tr>
<td></td>
<td>PM07507- E Data</td>
<td>75 x 7</td>
<td>2.95 x 0.28</td>
</tr>
<tr>
<td></td>
<td>PM07507- Hard Data</td>
<td>75 x 7</td>
<td>2.95 x 0.28</td>
</tr>
</tbody>
</table>

*Data supplied electronically

**Data supplied in hard copy

#### Options

- **Fonts:** Various available
- **Lines per marker:** One only
- **Saddle fixings:** 9.5 mm L x 2.4 mm H (0.37" L x 0.09" H)
- **Hole fixings:** None
- **Standard colors:** Metallic

#### Font heights

<table>
<thead>
<tr>
<th>Font heights</th>
<th>Characters Per Line</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard Condensed</td>
</tr>
<tr>
<td>4.0 mm (0.16&quot;)</td>
<td>15</td>
</tr>
<tr>
<td>5.0 mm (0.20&quot;)</td>
<td>10</td>
</tr>
</tbody>
</table>
The T200 series of printers are portable/desktop thermal transfer printers with a 4.1" print head offering an economical option for low volume customers who want to take advantage of thermal transfer printing technology. Their small, light weight design makes them ideal for applications requiring portability or in environments with multiple workstations where space is limited.

The T208M has a 200 dpi printhead; the T212M has a 300 dpi printhead for crisp, high quality text, barcodes and graphic images. Both printers are designed for use with Tyco Electronics range of TMS heat shrinkable wire marker sleeves and limited thermal transfer printable pressure sensitive label products.

T200 series printers are available with optional label spindle accessory. It externally holds a roll of labels on 3" core for easy dispensing.

### Printer Specifications

- **Print head width**: 104mm (4.09")
- **Print head resolution**
  - T208M: 8dpmm (203 dpi)
  - T212M: 12dpmm (305 dpi)
- **Print speed (maximum)**
  - 51mm/sec (2 inch/sec)
- **Media sensor**
  - Transmissive (fixed)
  - Reflective (fixed)
- **Memory**
  - T208M: 256KB SRAM and 512KB Flash
  - T212M: 512KB SRAM and 1MB Flash
- **Communication interface**
  - Parallel (Centronics), serial (RS232), and USB
- **Printer dimensions**
  - 200mm W x 247mm D x 171mm H
  - (7.9" W x 9.75" D x 6.75" H)
- **Printer weight**
  - 1.81 kg (4 lbs)
- **Shipping weight**
  - 4 kg (9 lbs)

### Media Specifications

- **Maximum print width**: 104mm (4.09")
- **Maximum media width**: 118mm (4.65")
- **Minimum media width**: 28mm (1.12")
- **Maximum media roll diameter**: 127mm (5.0")
- **Media core diameter**: 25mm (1.0")
- **Ribbon wind**: Ink side out

### Product Order Code

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>T208M-PRINTER</td>
<td>T208M thermal printer - standard</td>
</tr>
<tr>
<td>T208M-C-PRINTER</td>
<td>T208M thermal printer - cutter option</td>
</tr>
<tr>
<td>T212M-PRINTER</td>
<td>T212M thermal printer - standard</td>
</tr>
<tr>
<td>T212M-C-PRINTER</td>
<td>T212M thermal printer - cutter option</td>
</tr>
<tr>
<td>T200-LABEL-SPINDLE</td>
<td>External label roll holder for T200 printers</td>
</tr>
</tbody>
</table>
The T300 series printers are high performance, yet cost effective thermal transfer printers with a 4.1" printhead. The rugged and durable all metal construction makes them suitable for demanding industrial and commercial environments. The enhanced memory and 32 bit processor provide fast data processing and print speeds. Optional accessories are available for added convenience and efficiency.

The T308S and T308SN have a 200 dpi printhead for use with the Tyco Electronics range of thermal transfer printable pressure sensitive label products. The T308SN provides network capability for real time connectivity with the printer. With such connectivity, print jobs can be modified from any location over the Internet via Web-based tools. The T308SN printer is also capable of sending alerts via email enabled wired or wireless devices.

The 300 dpi printhead on the T312S, T312M and T312Z produces crisp, high quality text, barcodes and graphic images. The T312S and T312Z are for use with Tyco Electronics thermal transfer printable pressure sensitive label products. The color-coded operator cues and auto-calibration features make T312Z an affordable yet easy to use label printing system. The T312M is designed for use with Tyco Electronics TMS and HSI wire marker sleeves, as well as thermal transfer pressure sensitive label products.

### Printer Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>T308S</th>
<th>T312M/T312S/T312Z*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print head width</td>
<td>104mm (4.09&quot;)</td>
<td></td>
</tr>
<tr>
<td>Print head resolution</td>
<td>T308S: 8dpmm (203 dpi)</td>
<td>T312M/T312S/T312Z*: 12dpmm (305 dpi)</td>
</tr>
<tr>
<td>Print speed (maximum)</td>
<td>T308S/T312M/T312S: 203mm/sec (8 inch/sec)</td>
<td>T312Z*: 154mm/sec (6 inch/sec)</td>
</tr>
<tr>
<td>Media sensor</td>
<td>Transmissive - adjustable</td>
<td>Reflective (fixed)</td>
</tr>
<tr>
<td>Memory</td>
<td>T308S/T312M/T312S: 6MB DRAM and 2MB Flash</td>
<td>T308SN: Additional 8MB flash memory in PCMCIA socket</td>
</tr>
<tr>
<td>Communication interface</td>
<td>Bi-directional parallel (Centronics) and serial (RS232)</td>
<td>T312Z*: 4MB DRAM and 1MB Flash</td>
</tr>
<tr>
<td>Printer dimensions</td>
<td>T308S/T312M/T312S: 283mm W x 495mm D x 394mm H (11.2&quot; W x 19.5&quot; D x 15.5&quot; H)</td>
<td>T312Z*: 278mm W x 475mm D x 338mm H (10.93&quot; W x 18.69&quot; D x 13.32&quot; H)</td>
</tr>
<tr>
<td>Printer weight</td>
<td>T308S/T312M/T312S: 25kg (55 lbs)</td>
<td>T312Z*: 15kg (32.4 lbs)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>T308S/T312M/T312S: 29kg (63 lbs)</td>
<td>T312Z*: 22kg (49 lbs)</td>
</tr>
</tbody>
</table>

### Media Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>T308S</th>
<th>T312M/T312S/T312Z*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum print width</td>
<td>104mm (4.09&quot;)</td>
<td></td>
</tr>
<tr>
<td>Maximum media width</td>
<td>114mm (4.48&quot;)</td>
<td></td>
</tr>
<tr>
<td>Minimum media width</td>
<td>T308S/T312M/T312S: 20mm (0.76&quot;)</td>
<td>T312Z*: 25.4mm (1.0&quot;)</td>
</tr>
<tr>
<td>Maximum media roll diameter</td>
<td>203mm (8.0&quot;)</td>
<td></td>
</tr>
<tr>
<td>Media core diameter</td>
<td>76mm (3.0&quot;)</td>
<td></td>
</tr>
<tr>
<td>Ribbon wind</td>
<td>Ink side out</td>
<td></td>
</tr>
</tbody>
</table>

### Product Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T308S-PRINTER</td>
<td>T308S thermal printer - standard</td>
</tr>
<tr>
<td>T308S-C-PRINTER</td>
<td>T308S thermal printer - cutter option</td>
</tr>
<tr>
<td>T308S-R-PRINTER</td>
<td>T308S thermal printer - internal rewind option</td>
</tr>
<tr>
<td>T308SN-PRINTER</td>
<td>T308S thermal printer - network capabilities</td>
</tr>
<tr>
<td>T312S-PRINTER</td>
<td>T312S thermal printer - standard</td>
</tr>
<tr>
<td>T312S-C-PRINTER</td>
<td>T312S thermal printer - cutter option</td>
</tr>
<tr>
<td>T312S-R-PRINTER</td>
<td>T312S thermal printer - internal rewind option</td>
</tr>
<tr>
<td>T312M-PRINTER</td>
<td>T312M thermal printer - standard</td>
</tr>
<tr>
<td>T312M-R-PRINTER</td>
<td>T312M thermal printer - internal rewind option</td>
</tr>
<tr>
<td>T312Z-PRINTER</td>
<td>T312Z thermal printer - standard*</td>
</tr>
<tr>
<td>T312Z-P-PRINTER</td>
<td>T312Z thermal printer - passive peel* option</td>
</tr>
</tbody>
</table>

*Not available in Europe, Middle East or Africa*
The T400 series printers are high performance thermal transfer printers with narrow to wide printheads suitable for variety of mission critical applications. The rugged and durable metal construction makes them a top choice for demanding industrial and commercial needs.

The enhanced memory and dual 32-bit processor provide extremely fast data processing and print speeds. T400 series printers are the best option for high volume and 24 hour duty cycles. High speed of 12 inch/sec on T408M printers is well suited for the applications in which labels are needed quickly, either on demand or in batches. With the highest print resolution of 600 dpi printhead on the T424S produces unmatched quality of crisp, high quality text, barcodes and graphic images in a limited space - ideal for printing linear and 2-dimensional barcodes.

The T408M is designed for use with Tyco Electronics TMS and HSI wire marker sleeves, as well as thermal transfer pressure sensitive label products. The T424S is ideal for use with Tyco Electronics thermal transfer printable pressure sensitive label products.

### Printer Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>T408M: 128mm (5.04&quot;)</th>
<th>T424S*: 81mm (3.2&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print head width</td>
<td>128mm (5.04&quot;)</td>
<td>81mm (3.2&quot;)</td>
</tr>
<tr>
<td>Print head resolution</td>
<td>8dpmm (203 dpi)</td>
<td>23.5dpmm (600 dpi)</td>
</tr>
<tr>
<td>Print speed (maximum)</td>
<td>305mm/sec (12inch/sec)</td>
<td>102mm/sec (4inch/sec)</td>
</tr>
<tr>
<td>Media sensor</td>
<td>Transmissive and reflective</td>
<td>Reflective (fixed)</td>
</tr>
<tr>
<td>Memory</td>
<td>16MB SDRAM and 4MB Flash</td>
<td></td>
</tr>
<tr>
<td>Communication interface</td>
<td>Bi-directional parallel (Centronics), serial (RS232), and USB 2.0</td>
<td></td>
</tr>
<tr>
<td>Printer dimensions</td>
<td>T408M: 283.2mm W x 495.3mm D x 393.7mm H (11.15&quot; W x 19.5&quot; D x 15.5&quot; H)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T424S*: 263.5mm W x 495.3mm D x 393.7mm H (10.37&quot; W x 19.5&quot; D x 15.5&quot; H)</td>
<td></td>
</tr>
<tr>
<td>Printer weight</td>
<td>T408M: 25kg (55 lbs)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T424S*: 22.7kg (50 lbs)</td>
<td></td>
</tr>
<tr>
<td>Shipping weight</td>
<td>T408M: 29kg (63 lbs)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>T424S*: 27kg (59 lbs)</td>
<td></td>
</tr>
</tbody>
</table>

### Media Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>T408M: 128mm (5.04&quot;)</th>
<th>T424S*: 81mm (3.2&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum print width</td>
<td>128mm (5.04&quot;)</td>
<td>81mm (3.2&quot;)</td>
</tr>
<tr>
<td>Maximum media width</td>
<td>140mm (5.51&quot;)</td>
<td>114mm (4.5&quot;)</td>
</tr>
<tr>
<td>Minimum media width</td>
<td>40mm (1.57&quot;)</td>
<td>20mm (0.76&quot;)</td>
</tr>
<tr>
<td>Maximum media roll diameter</td>
<td>203mm (8.0&quot;)</td>
<td></td>
</tr>
<tr>
<td>Media core diameter</td>
<td>76mm (3.0&quot;)</td>
<td></td>
</tr>
<tr>
<td>Ribbon wind</td>
<td>Ink side out</td>
<td></td>
</tr>
</tbody>
</table>

### Product Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T408M-PRINTER</td>
<td>T408M thermal printer - standard</td>
</tr>
<tr>
<td>T408M-R-PRINTER</td>
<td>T408M thermal printer - internal rewind option</td>
</tr>
<tr>
<td>T424S-PRINTER</td>
<td>T424S thermal printer - standard*</td>
</tr>
</tbody>
</table>

*Not available in Europe, Middle East or Africa

T400 Series printers are available with wider printhead configurations for specialty identification applications. Contact Tyco Electronics for such product requirements.
Specifically designed by Tyco Electronics, the T612M-DS printer answers a common need in heat-shrinkable wire and cable identification markers: single-pass printing onto both the front and back side of the markers simultaneously. Specifically developed and modified by Tyco Electronics for this application, the T612M-DS is a high duty cycle, industrially robust thermal transfer printer. It will print onto the complete range of TMS System Six heat-shrinkable markers in all sizes from \( \frac{3}{32} \)" (2.4 mm) to \( 2\frac{1}{4} \)" (57.2 mm). The data printed onto the two sides of each marker can be identical or different, same side up or flipped.

### Printer Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Print head width</td>
<td>128 mm (5.04&quot;)</td>
</tr>
<tr>
<td>Print head resolution</td>
<td>12 dpmm (304 dpi)</td>
</tr>
<tr>
<td>Print speed (maximum)</td>
<td>50 to 128 mm per second</td>
</tr>
<tr>
<td>(recommended) to 5 inches per second</td>
<td></td>
</tr>
<tr>
<td>Media sensor</td>
<td>Transmissive and gap</td>
</tr>
<tr>
<td>Memory</td>
<td>12MB DRAM and 1 MB flash</td>
</tr>
<tr>
<td>Communication interface</td>
<td>Parallel (centronics) and serial (RS232/422)</td>
</tr>
<tr>
<td>Printer dimensions</td>
<td>559 mm W x 432 mm D x 508 mm H</td>
</tr>
<tr>
<td>(22&quot; W x 17&quot; D x 20&quot;H)</td>
<td></td>
</tr>
<tr>
<td>Printer weight</td>
<td>38 kg (84 lbs)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>51 kg (112 lbs)</td>
</tr>
</tbody>
</table>

### Media Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum print width</td>
<td>112mm (4.4&quot;)</td>
</tr>
<tr>
<td>Maximum media width</td>
<td>117 mm (4.625&quot;)</td>
</tr>
<tr>
<td>Maximum media roll diameter</td>
<td>254 mm (10.0&quot;)</td>
</tr>
<tr>
<td>Media core diameter</td>
<td>26 mm (3.0&quot;)</td>
</tr>
<tr>
<td>Ribbon wind</td>
<td>Ink side out</td>
</tr>
</tbody>
</table>

### Product Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>T612M-DS-PRINTER</td>
<td>Tyco Electronics T612M-DS thermal printer – standard</td>
</tr>
</tbody>
</table>
Specifically designed by Tyco Electronics, the AM6310 is a heavy duty industrial dot matrix printer with a high impact 24-pin print head. Automatic media thickness detection and a high impact print head make the AM6310 the best industrial printer available for heavy gauge wire marker and tag materials, and the 24-pin print head produces high quality text printing with fast print speeds. Standard AM6310 printer models are designed to print on Tyco Electronics HSI wire marker sleeves and dot matrix pressure sensitive label and tag products. AM6310D models are equipped with dual tractor mechanism necessary for guiding TMS sleeve product range. Such dual tractor models can also print on HSI and dot matrix label and tag product range.

**Printer Specifications**

- **Print head**: 24-pin high-impact dot matrix
- **Print speed**: Max. high-speed draft: 600 cps at 12 cpi
- **Print direction**: Bi-directional, logic seeking
- **Control panel**: LCD, 12 keys, select-dial and quick access setup menu
- **Feed mechanism**: Tractor (single or dual)
- **Memory**: 2 MB flash
- **Input buffer**: 80 KB
- **Communication interface**: Parallel port (centronics 36-pin) and serial port (RS232/DB25)
- **Printer dimensions**: 483 mm W x 427 mm D x 208 mm H
- **Printer weight**: 18.1 kg (40 lbs)

**Media Specifications**

- **Maximum print width**: 279 mm (11.0")
- **Maximum media width**: 305 mm (12.0")
- **Minimum media width**: 25 mm (1.0")

**Product Order Code**

- **AM6310-110V**: Tyco Electronics AM6310 dot matrix printer – standard 110 V
- **AM6310-230V**: Tyco Electronics AM6310 dot matrix printer – standard 230 V
- **AM6310D-110V**: Tyco Electronics AM6310 dot matrix printer – dual tractor 110 V
- **AM6310D-230V**: Tyco Electronics AM6310 dot matrix printer – dual tractor 230 V
LMS-9000 Laser Marker

The LMS-9000 laser marker is a low maintenance laser marking system designed for high volume users. It is a highly automated system including cutting to length, post-mark rewinding and double sided, one step sleeve marking. Integrated with WinTotal marker sleeve/label marking software, it is designed for Tyco Electronics wire identification sleeves and selected labels.

Features and Benefits

- Simultaneous double-sided laser marking option for marker sleeves saves considerable time and eliminates any margin for error.
- Optional handling system designed to handle several Tyco Electronics products.
- Laser marking and cutting for kitting in one integrated step eliminates post print cutting and kitting.
- Virtually no product wastage during marking, thanks to a state of the art product recognition and jogging system.
- Optional scoring and marking feature for label products.
- Modular design for easy placement and re-installation.
- Fully integrated software and hardware.
- On screen diagnostics.
- Meets all relevant US and European laser equipment standards.
- Laser parameters pre-set and software controlled.

Product Order Code | Description
--- | ---
LMS-9000 | Tyco Electronics LMS-9000 laser – standard

*SPECIAL NOTE:
Tyco Electronics also offers a pre-printing service to customers who need high quality, durable, permanent laser markers, yet do not want to invest in the purchase of LMS-9000 equipment at this time. All pre-printed laser markers, labels or tags are produced to out exacting quality, manufacturing standards and meet applicable mark permanence specifications. A variety of System Six and HSI products including TMS-SCE, D-SCE, HT-SCE, HL, HLX, HS and HX are available for pre-print base materials along with many label materials.

Please contact your local Tyco Electronics representative to find out more about our laser pre-print services.
LDS-100 Label Dispensers

Tyco Electronics label dispensers advance the art of label dispensing with their ability to dispense virtually any type of label, whether opaque, semi-transparent, or even completely transparent! These fast loading dispensers accept labels up to 4.5” and will accurately and rapidly advance them for instant picking. Equipped with advanced sensor technology, these dispensers reliably peel a label from its backing and present it ready to pick. As soon as a label is picked from the dispenser, the next one is automatically and instantly advanced.

LDS-100 dispensers are very easy to use and setup. A “High-Low” speed switch and an adjustable sensor on LDS-100 precisely matches label length and solves any label curling problems.

LDS-100S has a variable speed control and includes an On-Off foot switch. It can continuously advance labels at a chosen rate. It is ideal for production lines and for small label dispensing applications.

### Printer Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>LDS-100</th>
<th>LDS-100S</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum label width</td>
<td>114 mm</td>
<td>4.5”</td>
</tr>
<tr>
<td>Minimum label width</td>
<td>25.4 mm</td>
<td>1”</td>
</tr>
<tr>
<td>Minimum label length</td>
<td>12.7 mm</td>
<td>0.5”</td>
</tr>
<tr>
<td>Maximum label roll diameter</td>
<td>220 mm</td>
<td>8.6”</td>
</tr>
<tr>
<td>Maximum core diameter</td>
<td>76.2 mm</td>
<td>3”</td>
</tr>
<tr>
<td>Minimum core diameter</td>
<td>38.1 mm</td>
<td>1.5”</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>120 VAC</td>
<td>60 Ho</td>
</tr>
<tr>
<td>Physical Dimensions</td>
<td>305mm x 229mm D x 229mm (12” W x 9” D x 9” H)</td>
<td></td>
</tr>
<tr>
<td>Shipping weight</td>
<td>6.8 kg</td>
<td>15 lbs</td>
</tr>
</tbody>
</table>

### Product Order Code

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LDS-100</td>
<td>Label dispenser - standard*</td>
</tr>
<tr>
<td>LDS-100S</td>
<td>Label dispenser - with foot switch*</td>
</tr>
</tbody>
</table>

*Not available in Europe, Middle East or Africa
LDR-100 Label Rewinders

These fast, flexible and affordable multi-directional rewinders are designed to use with thermal transfer printers. These rewinders rewind printed rolls of labels for use at a later time. A switch conveniently controls the amount of rewind force. No awkward tensioning arms, troublesome belts, or clutches are used and no speed adjustments are required. Tyco Electronics label rewinder automatically adjusts to any printer speed up to 10-ips. Small foot print and flexibility to use any core diameter from 1” to 4” makes them indispensable companion accessory for your label printer.

Printer Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum label width</td>
<td>127mm (5”)</td>
</tr>
<tr>
<td>Maximum label roll diameter</td>
<td>220mm (8.6”)</td>
</tr>
<tr>
<td>Maximum core diameter</td>
<td>102mm (4”)</td>
</tr>
<tr>
<td>Minimum core diameter</td>
<td>25.4mm (1”) or coreless</td>
</tr>
<tr>
<td>Max Speed</td>
<td>254mm/sec (10in/sec)</td>
</tr>
<tr>
<td>Direction</td>
<td>Bi-directional</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>120 VAC 60 Hz</td>
</tr>
<tr>
<td>Physical Dimensions</td>
<td>152mm W x 229mm D x 280mm (6” W x 9” D x 11” H)</td>
</tr>
<tr>
<td>Shipping weight</td>
<td>6.8 kg (15 lbs)</td>
</tr>
</tbody>
</table>

Product Order Code

RWD-100

Description

Label rewinder - standard*

*Not available in Europe, Middle East or Africa
**BSC-100 Barcode Scanners**

Tyco Electronics BSC-100 barcode scanners are cost effective, full featured, and fast barcode readers. These combine high image transfer speed with exceptional image quality. Their omni-directional reading capability allows fast and easy reading of EAN-UCC composite codes, 2-dimensional (PDF417, datamatrix) and Postal codes. It comes with USB connection ready to "point and shoot" at a complicated looking 2-dimensional barcode or a simple linear code. It can be used in a wide range of commercial and industrial applications within government/postal, military, healthcare, logistics, manufacturing and retail sectors.

<table>
<thead>
<tr>
<th>General Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Symbologies</strong></td>
</tr>
<tr>
<td>2 Dimensional:</td>
</tr>
<tr>
<td>PDF417, MicroPDF417, MaxiCode, DataMatrix, QR Code, Aztec, Aztec Mesas, Code 49 and EAN-UCC composite</td>
</tr>
<tr>
<td>Linear:</td>
</tr>
<tr>
<td>Codabar, Code 39, Interleaved 2 of 5, Code 93, Code 128, UPC, EAN, RSS, and Codablock</td>
</tr>
<tr>
<td>Postal:</td>
</tr>
<tr>
<td>Postnet, Planet Code, British Post, Canadian Post, Japanese Post, KIX</td>
</tr>
<tr>
<td>OCR fonts:</td>
</tr>
<tr>
<td>OCR-A, OCR-B</td>
</tr>
<tr>
<td><strong>Power Requirements</strong></td>
</tr>
<tr>
<td>4.5 - 12 VDC - powered through USB port</td>
</tr>
<tr>
<td><strong>Physical Dimensions</strong></td>
</tr>
<tr>
<td>81mm W x 135mm L x 157mm H (3.2&quot; W x 5.3&quot; L x 6.2&quot; H)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
</tr>
<tr>
<td>184.3g (6.5 oz)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Order Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC-100</td>
<td>Barcode scanner - standard*</td>
</tr>
</tbody>
</table>

*Not available in Europe, Middle East or Africa
## Thermal Transfer Ribbons

### RJS-4RPSCE
Tyco Electronics RJS-4RPSCE is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics TMS-SCE and RPS wire marker sleeve products. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

### General Specifications
- **Ribbon width:** 110 mm (4.33 inches)
- **Ribbon length:** 300 meters (984 feet)
- **Ink Resin:** Black
- **Standard color:** Black
- **Ribbon wind direction:** Ink side out
- **Compatible printers:** T308S, T312M, T312Z**, T408M, T612M-DS
- **Compatible materials:** TMS-SCE, RPS, SB

### Ordering Information
- **Product order code:** TMS-RJS-RIBBON-4RPSCE
- **Description:** Tyco Electronics 4RPSCE thermal transfer ribbon for T308S, T312S, T312M, T312Z**, T408M and T612M-DS printers

*Available in additional sizes by custom quotation - **Not available in Europe, Middle East or Africa

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### 101-4RPSCE
Tyco Electronics 101-4RPSCE is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics TMS-SCE, RPS wire marker sleeve products and SB self-laminating labels. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

### General Specifications
- **Ribbon width:** 110 mm (4.33 inches)
- **Ribbon length:** 74 meters (242 feet)
- **Ink Resin:** Black
- **Standard color:** Black
- **Ribbon wind direction:** Ink side out
- **Compatible printers:** T208M, T212M
- **Compatible materials:** TMS-SCE, RPS, SB

### Ordering Information
- **Product order code:** TMS-101-RIBBON-4RPSCE
- **Description:** Tyco Electronics 4RPSCE thermal transfer ribbon for T208M and T212M printers

**Not available in Europe, Middle East or Africa

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### RJS-4HT
Tyco Electronics RJS-4HT is a high temperature black resin thermal transfer ribbon tested and approved for use on Tyco Electronics HT-SCE high temperature wire marker sleeve products. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

### General Specifications
- **Ribbon width:** 110 mm (4.33 inches)
- **Ribbon length:** 300 meters (984 feet)
- **Ink Resin:** Black
- **Standard color:** Black
- **Ribbon wind direction:** Ink side out
- **Compatible printers:** T312M, T408M, T612M-DS
- **Compatible materials:** HT-SCE, HTC-SCE-TP (T312M only)

### Ordering Information
- **Product order code:** TMS-RJS-RIBBON-4HT
- **Description:** Tyco Electronics 4HT thermal transfer ribbon for T312M, T408M and T612M-DS printers

**Not available in Europe, Middle East or Africa

---
### Thermal Transfer Ribbons (Continued)

#### 101-4HT
Tyco Electronics 101-4HT is a high temperature black resin thermal transfer ribbon tested and approved for use on Tyco Electronics HT-SCE high temperature wire marker sleeve products. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th>110 mm (4.33 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>74 meters (242 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T208M, T212M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>HT-SCE</td>
</tr>
</tbody>
</table>

#### Ordering Information
- Product order code: TMS-101-RIBBON-4HT
- Description: Tyco Electronics 4HT thermal transfer ribbon for T208M and T212M printers

#### RJS-4ZH
Tyco Electronics RJS-4ZH is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics ZH-SCE zero halogen wire marker sleeve products. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th>110 mm (4.33 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T312M, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>ZH-SCE</td>
</tr>
</tbody>
</table>

#### Ordering Information
- Product order code: TMS-RJS-RIBBON-4ZH
- Description: Tyco Electronics 4ZH thermal transfer ribbon for T312M and T408M

#### T200-4ZH
Tyco Electronics 101-4ZH is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics ZH-SCE zero halogen wire marker sleeve products. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th>110 mm (4.33 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>74 meters (242 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T208M, T212M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>ZH-SCE</td>
</tr>
</tbody>
</table>

#### Ordering Information
- Product order code: T200-RIBBON-4ZH
- Description: Tyco Electronics 4ZH thermal transfer ribbon for T208M and T212M printers

#### 1910
Tyco Electronics 1910 is a high durability high contrast resin/wax thermal transfer ribbon tested and approved for use on the HLX-zero halogen cable marker tape and the HXTM-FB rail tags. For reliable print performance use with Tyco Electronics recommended printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th>110 mm (4.33 inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin/wax</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T312M, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>HLX, HXTM-FB</td>
</tr>
</tbody>
</table>

#### Ordering Information
- Product order code: 1910-RIBBON-4T300
- Description: Tyco Electronics 1910 thermal transfer ribbon for T312M and T408M printers
### 1966 - RIBBON
Tyco Electronics 1966-RIBBON is an ultra-high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics HX, HX-SCE and D-SCE wire marker sleeves as well as CM-SCE-TP and HLX cable markers. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printer</td>
<td>T312MS</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>CM-SCE-TP, D-SCE, HLX, HS, HX, HXTM-FB</td>
</tr>
</tbody>
</table>

### Ordering Information
- **Product order code**: 19660-RIBBON
- **Description**: Tyco Electronics 1966 thermal transfer ribbon for T312M

### T200-RIBBON-1966
Tyco Electronics T200-RIBBON-1966 is an ultra-high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics HX-SCE wire marker sleeves. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>74 meters (242 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printer</td>
<td>T312MS</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>HX-SCE</td>
</tr>
</tbody>
</table>

### Ordering Information
- **Product order code**: T200-RIBBON-1966
- **Description**: Tyco Electronics 1966 thermal transfer ribbon for T212M

### 1950
Tyco Electronics 1950 is a high durability black resin/wax thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable H.S.I. wire marker sleeves and HL cable marker products. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin/wax</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printer</td>
<td>T312M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>HC, HL, HS</td>
</tr>
</tbody>
</table>

### Ordering Information
- **Product order code**: 1950-RIBBON-4T300
- **Description**: Tyco Electronics 1950 thermal transfer ribbon for T312M

### RHQ
Tyco Electronics RHQ is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable pressure sensitive labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width*</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Wax/Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T308S, T312M, T312S, T312Z**, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>SB, NC, WP, HW, MP, HM, MV</td>
</tr>
</tbody>
</table>

### Ordering Information
- **Product order code**: 1330-0606-10
- **Description**: Tyco Electronics RHQ thermal transfer ribbon for all T300 and T400 printers

---

**Note**: Available in additional sizes by custom quotation **Not available in Europe, Middle East or Africa**
## Thermal Transfer Ribbons (Continued)

### RHD
Tyco Electronics RHD is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable pressure sensitive labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

#### General Specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T308S, T312M, T312S, T312Z**, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>CP, HM, HMM, HPK, HW, MP, MV, NC, PVF, TN, TTP, WP, WV</td>
</tr>
</tbody>
</table>

### RHD-T200
Tyco Electronics RHD-T200 is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable pressure sensitive labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

#### General Specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>74 meters (242 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T208M, T212M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>nM, HMM, HW, MP, MV, NC, TN, TTP, WP, WV</td>
</tr>
</tbody>
</table>

### RHT
Tyco Electronics RHT is a high temperature black resin thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable Kapton® labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

#### General Specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Resin</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T308S, T312M, T312S, T312Z**, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>CP, HM, HMM, HPK, HW, MP, MV, NC, PVF, TN, TTP, WP, WV</td>
</tr>
</tbody>
</table>

### RS
Tyco Electronics RS is a high quality black wax thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable paper labels. See right for compatible material. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

#### General Specifications
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ribbon width</td>
<td>110 mm (4.33 inches)</td>
</tr>
<tr>
<td>Ribbon length</td>
<td>300 meters (984 feet)</td>
</tr>
<tr>
<td>Ink</td>
<td>Wax</td>
</tr>
<tr>
<td>Standard color</td>
<td>Black</td>
</tr>
<tr>
<td>Ribbon wind direction</td>
<td>Ink side out</td>
</tr>
<tr>
<td>Compatible printers</td>
<td>T308S, T312M, T312S, T312Z**, T408M</td>
</tr>
<tr>
<td>Compatible materials</td>
<td>EP</td>
</tr>
</tbody>
</table>

### Ordering Information
- **RHD**: Product order code 1330-0607-10
  - Description: Tyco Electronics RHD thermal transfer ribbon for all T300 and T400 printers

- **RHD-T200**: Product order code 1330-0607-T200
  - Description: Tyco Electronics RHD thermal transfer ribbon for T208M and T212M printers

- **RHT**: Product order code 1330-0619-10
  - Description: Tyco Electronics RHT thermal transfer ribbon for all T300 and T400 printers

- **RS**: Product order code 1330-0600-10
  - Description: Tyco Electronics RS thermal transfer ribbon for all T300 and T400 printers
### Ribbons

#### Thermal Transfer Ribbons (Continued)

**RS-T200**
Tyco Electronics RS-T200 is a high quality black wax thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable paper labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- Ribbon width: 110 mm (4.33 inches)
- Ribbon length: 300 meters (984 feet)
- Ink: Wax
- Standard color: Black
- Ribbon wind direction: Ink side out
- Compatible printers: T308S, T312S, T312M, T408M
- Compatible materials: TMS-SCE (T312M only), CP, TTVF

**Ordering Information**
- Product order code: 1330-0600-T200
- Description: Tyco Electronics RS thermal transfer ribbon for T200 printers

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**3300**
Tyco Electronics 3300 is a high durability black resin thermal transfer ribbon tested and approved for use on Tyco Electronics thermal transfer printable pressure sensitive labels. See right for compatible materials. For reliable print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- Ribbon width*: 110 mm (4.33 inches)
- Ribbon length: 300 meters (984 feet)
- Ink: Resin
- Standard color: Black
- Ribbon wind direction: Ink side out
- Compatible printers: T308S, T312S, T312Z**, T312M and T408M
- Compatible materials: TMS-SCE (T312M only), CP, TTP

**Ordering Information**
- Product order code: 1330-3300-10
- Description: Tyco Electronics 3300 thermal transfer ribbon for all T300 and T400 printers

---

**T300–WH**
White resin based ribbons are available to print on Tyco Electronics TMS-SCE wire marker sleeve products. For print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- Ribbon width: 110 mm (4.33 inches)
- Ribbon length: 300 meters (984 feet)
- Ink: Resin
- Standard color: White
- Ribbon wind direction: Ink side out
- Compatible printers: T308S, T312S, T312Z**, T312M and T-408M
- Compatible materials: TMS-SCE (T312M only), CP, TTP

**Ordering Information**
- Product order code: T300-RIBBON-WH
- Description: Tyco Electronics thermal transfer ribbon for T300 and T400 printers

---

**T300–WH–4HT**
White resin based ribbons are available to print on Tyco Electronics HT-SCE wire marker sleeve products. For print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- Ribbon width: 114 mm (4.49 inches)
- Ribbon length: 300 meters (984 feet)
- Ink: Resin
- Standard color: White
- Ribbon wind direction: Ink side out
- Compatible printers: T312M, T408M
- Compatible materials: HT-SCE

**Ordering Information**
- Product order code: T300-RIBBON-WH–4HT
- Description: Tyco Electronics thermal transfer white ribbon for all T308M, T312M and T408M printers
### Thermal Transfer Ribbons

#### RHCA

**RHCA resin based ribbons** are specifically designed to print on polyester or metalized polyester Tyco Electronics label products. For print performance and durability use with Tyco Electronics recommended compatible printers. It is not suitable to print on paper or self-laminating products.

**General Specifications**
- **Ribbon width**: 110 mm (4.33 inches)
- **Ribbon length**: 91 meters (300 feet)
- **Ink**: Resin
- **Standard color**: Red, Blue and Green (see ordering information below)
- **Ribbon wind direction**: Ink side out
- **Compatible printers**: T308S, T312M, T312S, T312Z**
- **Compatible materials**: CP, HW, HM, HPK, HMM, MP, MV, PVF, WP, WV

**Ordering Information**
- **Product order codes**: 1330-0620-10 (Red) 1330-0621-10 (Blue) 1330-0622-10 (Green)
- **Description**: Tyco Electronics thermal transfer color ribbon for all T300 and T400 printers

#### RHCB

**RHCB wax-resin based ribbons** are specifically designed to print on paper and self-laminating Tyco Electronics label products. For print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- **Ribbon width**: 110 mm (4.33 inches)
- **Ribbon length**: 300 meters (9840 feet)
- **Ink**: Wax-Resin
- **Standard color**: Red, Blue and Green (see ordering information below)
- **Ribbon wind direction**: Ink side out
- **Compatible printers**: T308S, T312M, T312S, T312Z** and T408M
- **Compatible materials**: CP, HW, HM, HPK, HMM, MP, MV, PVF, WP, WV

*Not available in Europe, Middle East or Africa

**Ordering Information**
- **Product order codes**: 1330-0620-10 (Red) 1330-0621-10 (Blue) 1330-0622-10 (Green)
- **Description**: Tyco Electronics thermal transfer color ribbon for all T300 and T400 printers

#### T200–WH

**White resin based ribbons** are available to print on Tyco Electronics TMS-SCE wire marker sleeve products. For print performance and durability use with Tyco Electronics recommended compatible printers.

**General Specifications**
- **Ribbon width**: 110 mm (4.33 inches)
- **Ribbon length**: 70 meters (230 feet)
- **Ink**: Resin
- **Standard color**: White
- **Ribbon wind direction**: Ink side out
- **Compatible printers**: T308M, T212M
- **Compatible materials**: TMS-SCE, HM, MP, MV, TTP

**Ordering Information**
- **Product order code**: T200-RIBBON-WH
- **Description**: Tyco Electronics thermal transfer white ribbon for T200 printers

#### T200–WH–4HT

**White resin based ribbons** are available to print on Tyco Electronics HT-SCE wire marker sleeve products. For print performance and durability use with Tyco Electronics recommended compatible printers. It is not suitable to print on paper or self-laminating products.

**General Specifications**
- **Ribbon width**: 110 mm (4.33 inches)
- **Ribbon length**: 74 meters (242 feet)
- **Ink**: Resin
- **Standard color**: White
- **Ribbon wind direction**: Ink side out
- **Compatible printers**: T308M, T212M
- **Compatible materials**: HT-SCE

**Ordering Information**
- **Product order code**: T200-RIBBON-WH–4HT
- **Description**: Tyco Electronics thermal transfer white ribbon for T200 printers

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**Catalog 7-1773446-2**
**Revised 10-07**
**www.tycoelectronics.com**
**Dot Matrix Ribbons**

**RIBBON A**
Tyco Electronics RIBBON A is a permanent black ink dot matrix ribbon tested and approved for use on Tyco Electronics TMS-SCE wire marker sleeves and RMK-6 products on the LQ870 printer. See right for compatible materials.

**General Specifications**
- **Ink**: Standard color
- **Compatible printer**: LQ870
- **Compatible materials**: CM-SCE, D-SCE, RMK-6, RPS, TMS-SCE

**Ordering Information**
- **Product order code**: TMS-SYSTEM-SIX-RIBBON-A
- **Description**: Tyco Electronics dot matrix Ribbon A for LQ870 printer

**QUICK-DRY LQ870**
Tyco Electronics QUICK-DRY LQ870 is a quick drying indelible black ink dot matrix ribbon tested and approved for use on Tyco Electronics dot matrix printable pressure sensitive labels on the LQ870 printer. See right for compatible materials.

**General Specifications**
- **Ink**: RI Quick-Dry
- **Standard color**: Black
- **Compatible printer**: LQ870
- **Compatible materials**: C, DMVF, E, HLTM, K, M, NMX, PV, TW

**Ordering Information**
- **Product order code**: 1330-0037-00
- **Description**: Tyco Electronics Quick-Dry dot matrix ribbon for LQ870 printer
## Dot Matrix Ribbons (Continued)

### STANDARD AM6310

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ink</strong></td>
<td>Standard</td>
</tr>
<tr>
<td><strong>Standard color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Compatible printer</strong></td>
<td>AM6310, AM6310D</td>
</tr>
<tr>
<td><strong>Compatible materials</strong></td>
<td>CM-SCE, D-SCE*, HC, HL, HLTM-FB, HM, HS, RMK-6, RPS*, TMS-SCE*, MultiMark</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product order code</strong></td>
<td>1892BK04-RIBBON</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Tyco Electronics standard dot matrix ribbon for AM6310 printer</td>
</tr>
</tbody>
</table>

* Available only with AM6310D models

### HIGH-PERF AM6310

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ink</strong></td>
<td>High performance</td>
</tr>
<tr>
<td><strong>Standard color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Compatible printer</strong></td>
<td>AM6310, AM6310D</td>
</tr>
<tr>
<td><strong>Compatible materials</strong></td>
<td>HM, HX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th></th>
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<tbody>
<tr>
<td><strong>Product order code</strong></td>
<td>1892BK03-HIGH-PERF-RIBBON</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Tyco Electronics high performance dot matrix ribbon for AM6310 printer</td>
</tr>
</tbody>
</table>

### QUICK-DRY AM6310

<table>
<thead>
<tr>
<th>General Specifications</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ink</strong></td>
<td>Quick-Dry</td>
</tr>
<tr>
<td><strong>Standard color</strong></td>
<td>Black</td>
</tr>
<tr>
<td><strong>Compatible printer</strong></td>
<td>AM6310, AM6310D</td>
</tr>
<tr>
<td><strong>Compatible materials</strong></td>
<td>C, DMVF, E, HLTM, HPC, HPTM, K, M, NMX, PV, TW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Information</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product order code</strong></td>
<td>1892BK01</td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td>Tyco Electronics Quick-Dry dot matrix ribbon for AM6310 printer</td>
</tr>
</tbody>
</table>
WinTotal software is a powerful 32-bit label/marker design package that makes wire marker printing simple in an industrial environment. Running in the familiar Windows environment, the package is pre-loaded with all the Tyco Electronics wire identification products to facilitate marker design. The software features a highly graphical user interface to simplify operator training and minimize errors. The Windows environment gives access to a huge array of font options, including non-English fonts such as Chinese, Japanese and Hebrew (when used with appropriate operating systems or add-on software), and also allows simple importing and manipulation of graphics and logos. Barcode printing is available.

WinTotal software supports all common wire identification needs, including:

- Manual printing
- Automatic set printing from spreadsheets, databases or other CAD systems (including Tyco Electronics’s HarnWare® harness design software package)
- Incremental alpha and numeric fields
- Double-sided marker printing
- Automatic or manual routing or multiple printers
- Paper output option
- Wraparound marker production
- User-defined products
- Programmable buttons for repeated data insertion

The software can be password protected at different levels to prevent unauthorized use, and can be run on networked computers so that the design function can be separated from printing. The display can be set to several different languages, and a full on-screen Help function is incorporated.

Running behind the simple WinTotal user interface is a powerful label-making package, so the software can be used to design and print general labeling applications such as rating plates and shipping labels.

Features and Benefits

- Powerful wire marker design and print software.
- Familiar Windows user environment.
- Pre-loaded with Tyco Electronics identification products.
- Powerful import and export functions: reads wire lists from spreadsheets, databases and text files from CAD systems.
- Printer multi-tasking.
- Multiple on-screen languages.
WinTotal Wire Marker and Label Printing Software (Continued)

Features & Benefits (Continued)

Label Design
■ WYSIWYG label design and display.
■ Align text left, right, justified or center.
■ Built-in printer font support.
■ Windows True Type fonts.
■ Lines, boxes and graphic images.
■ Resize, rotate and stretch text, graphics and bar codes.
■ Thumbnail preview of saved labels.

Serialization
■ Increment or decrement by any interval.
■ Numeric, alphanumeric and custom base serialization.

Printing
■ Set and batch printing capabilities.
■ Multiple application port printing (MAPP).
■ Double sided marker printing.
■ Local or network printer support.
■ Number of identical or serialized copies selectable from database.

Serialization
■ Microsoft ODBC support, including: Access, Excel and dBase.
■ ASCII text files.
■ AutoCad importing.

Database Options
■ Microsoft ODBC support, including: Access, Excel and dBase.
■ ASCII text files.
■ AutoCad importing.

Data Management
■ Visual Basic scripting for custom data processing.
■ Sharable data fields.
■ Multiple products within one set or batch.

Minimum Recommended Computer Configuration

Computer IBM-compatible PC
Processor Intel Pentium® processor, 400 MHz minimum
RAM 64 MB minimum (128 MB for Windows NT, 2000 and XP)
Operating system Windows 95, 98, ME or NT (Service pack 6), 2000 and XP
Disk space required 25 MB minimum

Other Technical Information
Barcode types Codabar, code 39, code 93, code 128, EAN-13, EAN-8, UPC-E, Interleaved 2/5, ITF (DUN14), PDF 417, DataMatrix
Company logo or graphics Can be imported in BMP, PCX, MSP, WMF, JPG, JIF, GIF formats
Text and graphics Can be rotated, moved or resized

Ordering Information
Ordering description Product description
TMS-WINITOTAL-SWARE Tyco Electronics Wire Marker Printing Software – Windows, 32 bit
PrintEasy Label Printing Software

Tyco Electronics PrintEasy is a powerful yet easy to use Windows based label design and printing software. With PrintEasy you can quickly and easily combine bar codes, text and graphics into professional quality labels. Carefully organized menus and pop-up dialogs display all your options in plain, easy to understand words. The true WYSIWYG display allows you to create and view your labels with precision, giving you total control over your labels’ appearance before printing. PrintEasy is ideal for use with the Tyco Electronics range of thermal transfer printable pressure sensitive label products. PrintEasy is pre-loaded with all of Tyco Electronics's standard thermal transfer label templates, which allows you to simply select the Tyco Electronics part number you want to print and you are ready to go!

Features & Benefits

Support
- Free technical support.
- OS Support: Windows 95, 98, ME, NT, 2000, XP.
- International language support.

Label Design
- True WYSIWYG label design and display.
- Built-in printer font support.
- Windows True Type fonts.
- Reverse (white on black) text printing.
- Align text left, right, justified or center.
- Unlimited Undo/Redo command.
- Lines, boxes and graphic images.
- Import graphics in BMP, JPG, TIF, PCX, DCX, DIB, EPS and others.
- Resize, rotate and stretch objects.
- Thumbnail preview of saved labels.
- Metric and US measurement systems.

Bar Codes
- Numerous 1D and 2D symbologies.
- Unlimited width and height.
- Sequentially numbered bar codes.
- Place characters above or below bar codes or do not print.
- Option to display Start/Stop characters.

Printing
- Printer-based bar codes and serial numbers.
- Speed optimization using repetitive data control.
- Local or network printer support.
- Performance-enhancing printer controlled serialization.
- Number of identical or serialized copies selectable from database.
Features & Benefits (Continued)

**Serialization**
- Increment or decrement by any interval.
- Separate Rollover/Rollover and Value Reset options.
- Preserve or expand field length when rolling over.
- Numeric, alphanumeric and custom base serialization.

**Database Options**
- Microsoft ODBC support, including: Access, Btrieve, dBase, Excel, Oracle, Paradox, Clipper, FoxPro, Interbase and more.
- ASCII text files.
- SAP (mySAP.com and R/3).
- Versatile multiple-table data access.
- Import variable graphics from databases.
- Data query wizard.
- Individual record-picking at print time.

Minimum recommended computer configuration

<table>
<thead>
<tr>
<th>Computer</th>
<th>IBM-compatible PC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Intel Pentium® processor, 200 MHz minimum</td>
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<tr>
<td>RAM</td>
<td>32 MB minimum</td>
</tr>
<tr>
<td>Operating system</td>
<td>Windows 95, 98, ME or NT (Service pack 6), 2000 and XP</td>
</tr>
<tr>
<td>Disk space required</td>
<td>15MB to 80 MB minimum (depending on installation options)</td>
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</table>

Ordering information

<table>
<thead>
<tr>
<th>Ordering description</th>
<th>Product description</th>
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<tbody>
<tr>
<td>PRINTEASY –BASIC</td>
<td>Tyco Electronics Label Printing Software – Windows, 32 bit version for Laser and Inkjet printers**</td>
</tr>
<tr>
<td>PRINTEASY –PRO</td>
<td>Tyco Electronics Label Printing Software – Windows, 32 bit version for Laser and Inkjet and Full Thermal Transfer support with additional modules</td>
</tr>
<tr>
<td>PRINTEASY –SUITE</td>
<td>Tyco Electronics Label Printing Software – Windows, 32 bit version for Laser and Inkjet and Full Thermal Transfer support with additional modules</td>
</tr>
<tr>
<td>PRINTEASY –NET05</td>
<td>Tyco Electronics Label Printing Software – Windows, – Network version with 5 user license</td>
</tr>
<tr>
<td>PRINTEASY –NET10</td>
<td>Tyco Electronics Label Printing Software – Windows, – Network version with 10 user license</td>
</tr>
</tbody>
</table>

**Available in Europe, Middle East and Africa**
The Tyco Electronics Hot Air Gun is an electronic heating tool with adjustable heat settings from +49°C to +593°C (+120°F to +1100°F), and automatic temperature control for precise temperature output. It is ideal for use with the Tyco Electronics range of TMS and H.S.I. heat shrinkable wire marker sleeves. This Hot Air Gun is lightweight in design with easy, quiet operation. The ceramic encapsulated heating element provides exceptional durability and long life.

Optional accessories are available for added convenience and efficiency.

**Specifications**

- **120 V power requirement**: 120 V, 60 Hz, 12.5 A
- **230 V power requirement**: 230 V, 50 Hz, 8.7 A
- **Rated heater element power**: 1500 W
- **Weight**: 850 g (1.9 lb)
- **Cord length**: 2.4 m (8 ft)
- **Typical temperature output**: +49°C to +593°C (+120°F to +1100°F)

**Optional Accessories and Replacement Parts**

- HL1802E-BENCH-STD: Bench stand, clip-on.
- HL1802E-074616: Reflector nozzle, for small diameter sleeves/tubing
- HL1802E-070519: Reflector nozzle, for large diameter sleeves/tubing
- HL1802E-070618: Reduction nozzle (9 mm), for pinpoint air-flow control

**Ordering Description**

- HL1802E-KIT-120V: Hot air gun kit, 120 V power/reflector accessory (small)
- HL1802E-KIT-230V: Hot air gun kit, 230 V power/reflector accessory (small)
Introduction

The new T107M from Tyco Electronics is perfect for the professional user who needs an affordable label printer for on-site applications that's tough and easy to use. Contractors, panel builders and facility managers will save time and money by using the special Hot Keys that provide labels at the touch of a button including wire and cable wraps, module marking, fixed length, serialization, vertical printing, barcodes, symbols and much more.

The T107M offers clear, smudge-free high-performance labels that stick permanently to a variety of surfaces and provides remarkable MIL-spec print permanence on Heat Shrink Tubing. Print media is offered in easy-to-load cassettes and includes an optimized ribbon and choice of material: Heat Shrink & Nylon Cloth, Vinyl, Polyester and Polypropylene labels.

Features & Benefits

■ Affordable
■ Easy to use
■ Special 'Hot Key' functionality
■ Extra large 30-character backlit display
■ Oversized keys
■ Bright orange in colour, ensuring it will not get lost
■ Rubber bumper for extra protection
■ Also available in kit form
■ Easy to install cassettes

Hotkeys

1. Wrapping
2. Fixed Length
3. Vertical Printing
4. Terminal Block Marking
5. Patch Panel

Wire & Cable/Heatshrink
Technical Specifications

Printing Method
Thermal Transfer Printhead (180dpi)

Physical Characteristics
Dimensions
Length: 70mm
Width: 114mm
Height: 212mm
Weight: 519grams

Keyboard
ABC-layout
To access international characters: Rapid Accented Character Entry, according to the mobile phone principle.

Extra protective bumper
Cutter

Operating characteristics
Operating conditions: T°: 4°C-40°C
Humidity 10%-90% RH
Storage conditions: T°: 0°C-90°C
Humidity 10%-90% RH
CE approved

Handheld Part Descriptions

Printer & Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Technical Datasheet</th>
</tr>
</thead>
<tbody>
<tr>
<td>T107M-SMS-PRINTER-Kit-UK1</td>
<td>Printer Kit - UK adaptor included</td>
</tr>
<tr>
<td>T107M-SMS-PRINTER-Kit-EU1</td>
<td>Printer Kit - European adaptor included</td>
</tr>
<tr>
<td>T107M-SMS-PRINTER-EU</td>
<td>Printer only (European)</td>
</tr>
<tr>
<td>SMS-CARRY STRAP</td>
<td>Soft carry strap</td>
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<tr>
<td>SMS-EU/AC-ADAPTOR1</td>
<td>EU Power adaptor</td>
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<tr>
<td>SMS-ASIA/AC-ADAPTOR2</td>
<td>UK &amp; Asia A/C Power adaptor</td>
</tr>
<tr>
<td>SMS-BATTERY-PACK3</td>
<td>Rechargeable battery pack</td>
</tr>
<tr>
<td>SMS-PRINTER-HARDCASE4</td>
<td>Hard case</td>
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</tbody>
</table>

Printer Kit Contents - Printer, rubber protection bumper, user guide, 6AA batteries, power adaptor, hard carry case and two tape cassettes (19mm white flexible nylon tape & 9mm yellow heat shrink tubing).

Cassettes5

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
<th>Cable Diameter Range</th>
<th>Length</th>
<th>Shrink Ratio</th>
<th>Color</th>
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<tbody>
<tr>
<td>SMS-TMS-3.9-4</td>
<td>Heat shrink tubing</td>
<td>1.18mm - 2.33mm</td>
<td>1.5m</td>
<td>3:1</td>
<td>Yellow</td>
<td>TTDS-122</td>
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<tr>
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<td>Heat shrink tubing</td>
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<td>1.5m</td>
<td>3:1</td>
<td>White</td>
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<td>SMS-TMS-5.2-4</td>
<td>Heat shrink tubing</td>
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<td>1.5m</td>
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<td>SMS-TMS-5.2-9</td>
<td>Heat shrink tubing</td>
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<td>White</td>
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<td>Yellow</td>
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<td>SMS-TMS-7.9-9</td>
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<tr>
<td>SMS-TMS-13.2-4</td>
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<tr>
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<td>White</td>
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<table>
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<tr>
<td>SMS-NC-12-4</td>
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<td>SMS-V-12-4</td>
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<td>5.5m</td>
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