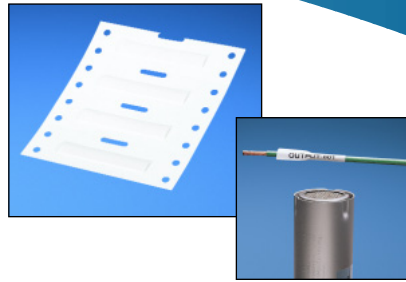


Military Grade Heat Shrink Labels

specifications

Military grade heat shrink labels shall be pre-cut, heat-shrinkable flattened polyolefin and shall readily accept thermal transfer print. The product shall meet the material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3). Product shall meet print performance of MIL-M-81531 and MIL-STD-883E, Notice 4, Method 2015.13 when printed with RMH4BL or RMR4BL series thermal transfer ribbons. Product shall pass UL 224 standard with a VW-1 for flammability.



technical information

| | |
|--|---|
| Material: | Pre-cut, heat-shrinkable flattened polyolefin meets the material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3) |
| Print method: | Thermal transfer or dot-matrix |
| Service temperature range: | -67°F to 275°F (-67°C to 135°C) |
| Shrink temperature: | 194°F to 248°F (90°C to 120°C) |
| Printability: | Product meets print performance of MIL-M-81531 and MIL-STD-883E, Notice 4, Method 2015.13 when printed with RMH4BL or RMR4BL series thermal transfer ribbons |
| Tested for nuclear plant (class 1E) harsh environments: | Printed markers meet requirements for radiation exposure, thermal aging, and LOCA/MSLB environmental testing; test margins related to IEEE 323-2003 were used (white and yellow only) |
| Recommended ribbon: | Normal use: Hybrid – RMH4BL for TDP43MY series printer or RHH4BL-S for TDP42HY series printer Most durable use: Resin – RMR4BL for TDP43MY series printer or RHR4BL-S for TDP42HY series printers For use with black color heat shrink - White ribbon RMR4WH should be used |
| RoHS compliance: | Material is RoHS compliant per European Directive 2002/95/EC on the Restriction of Hazardous Substances (RoHS) |
| Flammability: | Product passes UL 224 Standard, VW-1 for flammability |

key features and benefits

| | |
|---------------------------------------|---|
| Durable material | Enables use in harsh environments, meeting material requirements and physical properties of AMS-DTL-23053/5C (Class 1 and Class 3), passing UL 224, meeting print performance requirements of MIL-M-81531 and MIL-STD-883E, Notice 4, Method 2015.13 and meeting testing requirements for nuclear plant (Class 1E) harsh environments (white and yellow only) |
| Liner perforation | Allows heat shrink labels to be printed and removed one at a time with ease |
| Open end design | Wire/cable can be inserted directly into the label sleeve to reduce installation and assembly time |
| Variety of colors | Available in white, yellow, black and red |
| 3 to 1 shrink ratio | Provides fast shrinking and covers a wide range of wire diameters, simplifying inventory |
| Labeling software capabilities | Generate labels quickly and easily with <i>PANDUIT</i> [®] <i>EASY-MARK</i> [™] Labeling Software; labeling application tools assist in the creation of optimum identifiers and labels for common applications, advanced importing and bar-coding capabilities reduce errors and save time |

applications

PANDUIT military grade heat shrink labels are designed to meet the wire and cable labeling needs of organizations with high performance requirements. The labels are pre-cut, heat-shrinkable flattened polyolefin that readily accept thermal transfer print. This solution provides a lower operating temperature, more durable label and printed legends that meet stringent military standards and tests. The product meets the material requirements and physical properties

of AMS-DTL-23053/5C (Class 1 and Class 3), print performance of MIL-M-81531 and MIL-STD-883E, Notice 4, Method 2015.13 when printed with RMH4BL and RMR4BL-S thermal transfer ribbons, passes UL 224 standard with a VW-1 for flammability and meets testing requirements for nuclear plant (Class 1E) harsh environments (white and yellow only). When used in conjunction with *PANDUIT*[®] *EASY-MARK*[™] Labeling Software, time-savings and reduced errors can be realized when creating legends and text.

www.panduit.com

Military Grade Heat Shrink Labels

| Nominal Size | Part Number |
|--------------------------------|---|
| 1/8" (3.1mm) diameter: | H050X025H*T H075X025H*T H100X025H*T H150X025H*T H200X025H*T |
| 3/16" (4.7mm) diameter: | H050X034H*T H075X034H*T H100X034H*T H150X034H*T H200X034H*T |
| 1/4" (6.3mm) diameter: | H050X044H*T H075X044H*T H100X044H*T H150X044H*T H200X044H*T |
| 3/8" (9.5mm) diameter: | H050X064H*T H100X064H*T H200X064H*T |
| 1/2" (12.7mm) diameter: | H100X084H*T H200X084H*T |
| 1" (25.4mm) diameter: | H100X165H*T H200X165H*T |

*Colors available, replace * with 1 (White), 2 (Yellow), 3 (Black), and 4 (Red).

Labeling Software

| | |
|---|------------|
| EASY-MARK[™] Labeling Software: | PROG-EMCD3 |
| CAD-CONNECT[™] Labeling Software: | PROG-CCCD |

Thermal Transfer Desktop Printers

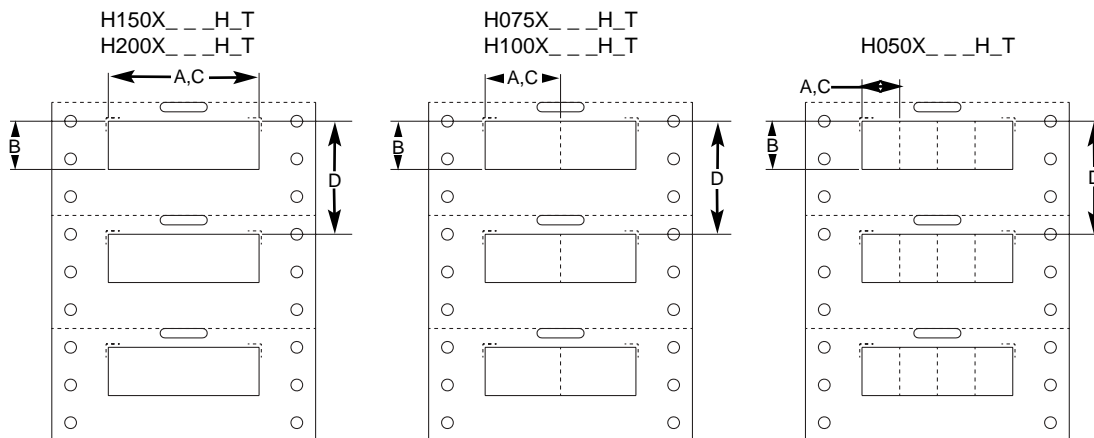
| | |
|-------------------------------|---------|
| Medium volume 300 dpi: | TDP43MY |
| High volume 200 dpi: | TDP42HY |
| 300 dpi: | TDP43HY |
| 600 dpi: | TDP46HY |

Military Grade Heat Shrink Labels

| White Color Part # | Yellow Color Part # | Black Color Part # | Red Color Part # | Diameter | Width 'A' | Height 'B' | Horizontal Repeat 'C' | Vertical Repeat 'D' | Labels per Row | Labels per Roll | Min. Cable O.D. | Max. Cable O.D. | Wire/Cable Size |
|--------------------|---------------------|--------------------|------------------|----------------|----------------|----------------|-----------------------|---------------------|----------------|-----------------|-----------------|-----------------|-----------------|
| H050X025H1T* | H050X025H2T | H050X025H3T | H050X025H4T | 1/8" (3.1mm) | 0.50" (12.7mm) | 0.25" (6.4mm) | 0.50" (12.7mm) | 1.00" (25.4mm) | 4 | 2000 | 0.04" (1.0mm) | 0.13" (3.3mm) | 22-18 AWG |
| H075X025H1T* | H075X025H2T | H075X025H3T | H075X025H4T | 1/8" (3.1mm) | 0.75" (19.0mm) | 0.25" (6.4mm) | 0.75" (19.0mm) | 1.00" (25.4mm) | 2 | 1000 | 0.04" (1.0mm) | 0.13" (3.3mm) | |
| H100X025H1T* | H100X025H2T | H100X025H3T | H100X025H4T | 1/8" (3.1mm) | 1.00" (25.4mm) | 0.25" (6.4mm) | 1.00" (25.4mm) | 1.00" (25.4mm) | 2 | 1000 | 0.04" (1.0mm) | 0.13" (3.3mm) | |
| H150X025H1T* | H150X025H2T | H150X025H3T | H150X025H4T | 1/8" (3.1mm) | 1.50" (38.1mm) | 0.25" (6.4mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.04" (1.0mm) | 0.13" (3.3mm) | |
| H200X025H1T* | H200X025H2T | H200X025H3T | H200X025H4T | 1/8" (3.1mm) | 2.00" (50.8mm) | 0.25" (6.4mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.04" (1.0mm) | 0.13" (3.3mm) | |
| H050X034H1T* | H050X034H2T | H050X034H3T | H050X034H4T | 3/16" (4.7mm) | 0.50" (12.7mm) | 0.34" (8.6mm) | 0.50" (12.7mm) | 1.00" (25.4mm) | 4 | 2000 | 0.06" (1.5mm) | 0.19" (4.8mm) | |
| H075X034H1T* | H075X034H2T | H075X034H3T | H075X034H4T | 3/16" (4.7mm) | 0.75" (19.0mm) | 0.34" (8.6mm) | 0.75" (19.0mm) | 1.00" (25.4mm) | 2 | 1000 | 0.06" (1.5mm) | 0.19" (4.8mm) | |
| H100X034H1T* | H100X034H2T | H100X034H3T | H100X034H4T | 3/16" (4.7mm) | 1.00" (25.4mm) | 0.34" (8.6mm) | 1.00" (25.4mm) | 1.00" (25.4mm) | 2 | 1000 | 0.06" (1.5mm) | 0.19" (4.8mm) | |
| H150X034H1T* | H150X034H2T | H150X034H3T | H150X034H4T | 3/16" (4.7mm) | 1.50" (38.1mm) | 0.34" (8.6mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.06" (1.5mm) | 0.19" (4.8mm) | |
| H200X034H1T* | H200X034H2T | H200X034H3T | H200X034H4T | 3/16" (4.7mm) | 2.00" (50.8mm) | 0.34" (8.6mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.06" (1.5mm) | 0.19" (4.8mm) | |
| H050X044H1T* | H050X044H2T | H050X044H3T | H050X044H4T | 1/4" (6.3mm) | 0.50" (12.7mm) | 0.44" (11.1mm) | 0.50" (12.7mm) | 1.00" (25.4mm) | 4 | 2000 | 0.08" (2.0mm) | 0.25" (6.3mm) | 16-10 AWG |
| H075X044H1T* | H075X044H2T | H075X044H3T | H075X044H4T | 1/4" (6.3mm) | 0.75" (19.0mm) | 0.44" (11.1mm) | 0.75" (19.0mm) | 1.00" (25.4mm) | 2 | 1000 | 0.08" (2.0mm) | 0.25" (6.3mm) | |
| H100X044H1T* | H100X044H2T | H100X044H3T | H100X044H4T | 1/4" (6.3mm) | 1.00" (25.4mm) | 0.44" (11.1mm) | 1.00" (25.4mm) | 1.00" (25.4mm) | 2 | 1000 | 0.08" (2.0mm) | 0.25" (6.3mm) | |
| H150X044H1T* | H150X044H2T | H150X044H3T | H150X044H4T | 1/4" (6.3mm) | 1.50" (38.1mm) | 0.44" (11.1mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.08" (2.0mm) | 0.25" (6.3mm) | |
| H200X044H1T* | H200X044H2T | H200X044H3T | H200X044H4T | 1/4" (6.3mm) | 2.00" (50.8mm) | 0.44" (11.1mm) | N/A | 1.00" (25.4mm) | 1 | 500 | 0.08" (2.0mm) | 0.25" (6.3mm) | |
| H050X064H1T* | H050X064H2T | H050X064H3T | H050X064H4T | 3/8" (9.5mm) | 0.50" (12.7mm) | 0.64" (16.2mm) | 0.50" (12.7mm) | 1.50" (38.1mm) | 4 | 2000 | 0.16" (4.0mm) | 0.38" (9.6mm) | |
| H100X064H1T* | H100X064H2T | H100X064H3T | H100X064H4T | 3/8" (9.5mm) | 1.00" (25.4mm) | 0.64" (16.2mm) | 1.00" (25.4mm) | 1.50" (38.1mm) | 2 | 1000 | 0.16" (4.0mm) | 0.38" (9.6mm) | |
| H200X064H1T* | H200X064H2T | H200X064H3T | H200X064H4T | 3/8" (9.5mm) | 2.00" (50.8mm) | 0.64" (16.2mm) | N/A | 1.50" (38.1mm) | 1 | 500 | 0.16" (4.0mm) | 0.38" (9.6mm) | |
| H100X084H1T | H100X084H2T | H100X084H3T | H100X084H4T | 1/2" (12.7mm) | 1.00" (25.4mm) | 0.84" (21.3mm) | 1.00" (25.4mm) | 1.50" (38.1mm) | 2 | 1000 | 0.17" (4.3mm) | 0.50" (12.7mm) | 8-1 AWG |
| H200X084H1T | H200X084H2T | H200X084H3T | H200X084H4T | 1/2" (12.7mm) | 2.00" (50.8mm) | 0.84" (21.3mm) | N/A | 1.50" (38.1mm) | 1 | 500 | 0.17" (4.3mm) | 0.50" (12.7mm) | |
| H100X165H1T | H100X165H2T | H100X165H3T | H100X165H4T | 1.00" (25.4mm) | 1.00" (25.4mm) | 1.65" (41.9mm) | 1.00" (25.4mm) | 2.50" (63.5mm) | 2 | 500 | 0.33" (8.38mm) | 1.00" (25.4mm) | 4 AWG - 500 MCM |
| H200X165H1T | H200X165H2T | H200X165H3T | H200X165H4T | 1.00" (25.4mm) | 2.00" (50.8mm) | 1.65" (41.9mm) | N/A | 2.50" (63.5mm) | 1 | 250 | 0.33" (8.38mm) | 1.00" (25.4mm) | |

Standard package quantity is 1 roll.

*Available in bulk package (5 times Standard Package Quantity), add -B to end of part number (only available in certain sizes in white color).



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SA-IDSP11
3/2008