

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 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 PANDUIT® EASY-MARK™ 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.

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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

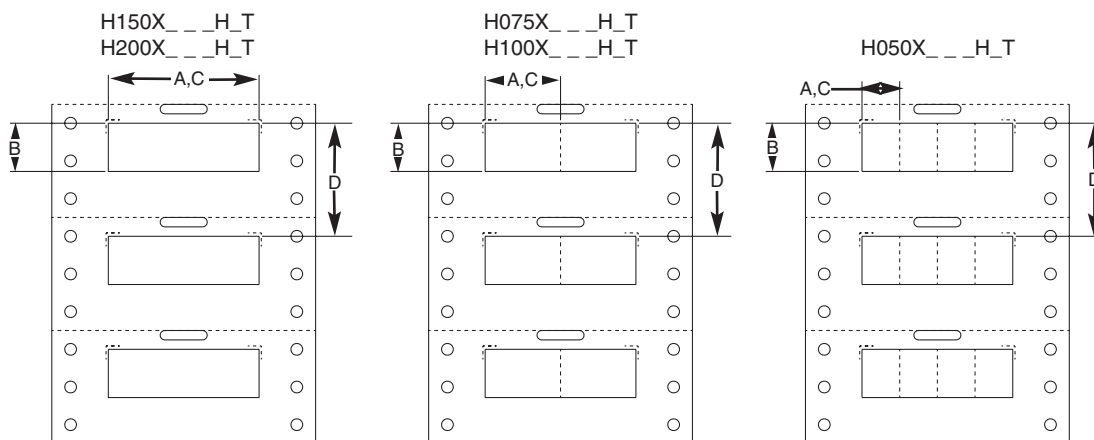
Medium volume 300 dpi:	TDP43MY
High volume 200 dpi:	TDP42HY
300 dpi:	TDP43HY
600 dpi:	TDP46HY

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)	18-12 AWG
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)	12-6 AWG
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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Printed in the U.S.A.
SA-IDSP11
12/2007