



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Description	Page Number(s)
Portable Labeling Systems and Printers	5-26
Pan-Quik™ LS3E Hand-Held Dot-Matrix Printer	6-11
LS5 and LS5E Industrial Labeling Systems	12-14
LS4H Heat Shrink / Laminated Tape Labeling System	15
LS4M Multiple Line Portable Labeling System	16
PTR1 Flat-Bed Dot-Matrix Printer	17-19
DURA-MARK™ PTR2 Thermal Transfer Printer	20-25
PTR3 Thermal Transfer Printer	26
 Software	 27-32
PAN-MARK™ for WINDOWS^.....	28
PAN-MARK LT for DOS	29
PROG-LITE Software for PTR1 Printer.....	30
SAFETY EASE™ Marker and Tag Software.....	31-32
 Thermal Transfer Labels	 33-47
Suggested Applications	34-35
Material Selection Guide	36
Label Listing by Material	36-39
Network Systems Labels.....	40-41
Label Drawings - Labels Listed by Size.....	42-44
Heat Shrink Labels for Thermal Transfer.....	45
Thermal Transfer Ribbons	46-47
 Ink Jet Labels	 49-56
Suggested Applications	50-50
Material Selection Guide	51
Label Listing by Material	51-52
Network Systems Labels.....	53
Label Drawings - Labels Listed by Size.....	55-56
Smear Resistant Ink Jet Cartridges and Refills.....	54
 Laser Printable Labels	 57-77
Suggested Applications	58-59
Material Selection Guide	60
Label Listing by Material	60-66
Network Systems Labels.....	67-69
Label Drawings - Labels Listed by Size.....	70-77
 Dot-Matrix Labeling Products	 79-130
Dot-Matrix Labels	80-121
Suggested Applications	81-83
Material Selection Guide	84
Self-Laminating Label Listing by Material	85-87
Blank Label Listing by Material	88-96
Network Systems Labels.....	97-100
Machinery Materials Identification Labels.....	101
Typewriter Sheets	102
Paper Labels.....	103-105
Self-Laminating Label Drawings - Labels Listed by Size	106-111
Blank Label Drawings - Labels Listed by Size	112-121

Table of Contents

Description	Page Number(s)
Dot-Matrix Heat Shrink Label Kits	122
Heat Shrink Tools and Accessories	123
Dot-Matrix Data Plates	124-125
Suggested Applications	124
Material Selection Guide	125
Label Drawings - Labels Listed by Size	125
Dot-Matrix Indelible Ink Ribbons	126-128
Suggested Applications	126
Ribbons by Printer Model.....	127-128
Marker Ties and Marker Plates.....	129-130
Wire Marking Products.....	132-150
Marker Books	132-137
Marker Cards	138-147
Wire Marker Tape Dispenser and Rolls.....	148
Slip-On Wire Markers	149
Clip-On Wire Markers.....	150
Cable Marking Products.....	151-155
Self-Laminating Cable Marker Holders	152
Clear Heat Shrink Tubing for Protected Wire and Cable Marking.....	153
Fiber Optic Cable Tags and Markers	154
Underground Hazard Tape.....	155
Electrical, Voltage and Fiber Optic Markers	157-160
Voltage and Fiber Optic Markers	157-158
Voltage and Ampere Markers	159
Electrical Symbols	160
Warning Labels	161-167
Static Awareness Labels	162
Electrical Hazard Labels	163-164
Packaging / Shipping Labels.....	165
ISO Labels.....	166-167
Quality Assurance, Inspection and Industrial Labels	169-180
Calibration Labels	170-171
Quality Assurance Labels and Tags.....	172-175
Inspection Labels and Tags	176-178
Production Control Tags.....	179-180
Reference Pages	181-204
Computer Printable Labels by Size	181-195
Wire Size Selection Guide	196
Alpha-Numeric Part Number Index.....	197-204

Meet your on-site labeling needs *FAST* with the *Pan-Quik*™ LS3E Hand-Held Printer from Panduit

With 20 Kb Memory to Save, Recall and Edit Label Files

Fast

Affordable

Easy to Use

Versatile

Other Features

- Flexibility to print self-laminating wire markers, heat shrink markers, component labels, asset identification labels and more
- Fast drying self-laminating labels reduce installation time
- Automatic recall of last legend entered
- Easy formatting options reduce set-up time
- Automatic serialization and legend repeat functions
- Quick change battery pack and optional AC adapter for reduced downtime
- More than 25 font styles and sizes
- Exact label registration

See [pages 6-11](#) for complete information



Printer Selection Matrix

Features	Printers						
	LS3E (Pg. 6)	LS5/LS5E (Pg. 12)	LS4H (Pg. 15)	LS4M (Pg. 16)	PTR1 (Pg. 17)	PTR2 (Pg. 20)	PTR3 (Pg. 26)

Label Options

Self-Laminating Wire Markers	Yes	Yes	No	No	Yes	Yes	Yes
Solid Wire Markers	Yes	Yes	No	No	Yes	Yes	Yes
Heat Shrink Markers	Yes	Yes	Yes	No	Yes	Yes	Yes
Component Markers	Yes	Yes	No	No	Yes	Yes	Yes
Terminal Block Markers	Yes	No	No	No	Yes	No	No
Industrial Laminated Tape	No	Yes	Yes	Yes	No	No	No
Commercial Non-Laminated Tape	No	Yes	No	Yes	No	Yes	Yes

Mechanical Specifications

Type	Hand-Held	Hand-Held	Portable	Portable	Desktop	Desktop	Desktop
Print Method	9-Pin Dot-Matrix	Thermal Transfer	Thermal Transfer	Thermal Transfer	24-Pin Dot-Matrix	Thermal Transfer	Thermal Transfer
Volume	Low	Low	Low	Low	Medium to High	Medium to High	High
Label Widths	0.25" - 1.50" (6.4 - 38.1 mm)	0.50" - 1.00" (12.7 - 25.4 mm)	0.50" (12.7 mm)	0.50" (12.7 mm)	Up to 8.50" (215.9 mm)	Up to 4.10" (104.1 mm)	Up to 5.00" (127.0 mm)
Weight	2.7 lbs. (1.2 kg)	4.7 lbs. (2.1 kg)	3.5 lbs. (1.6 kg)	3.5 lbs. (1.6 kg)	10 lbs. (4.5 kg)	4 lbs. (1.8 kg)	40 lbs. (18 kg)
Power Supply	Battery Pack or AC	Batteries or AC	Batteries or AC	Batteries or AC	AC	AC	AC
PC Interface Required	No	No	No	No	Yes	Yes	Yes
Optical Registration for Exact Print Registration	Yes	Yes	N/A	N/A	N/A	Yes	Yes
Memory	20 Kb	LS5 - 16Kb, LS5E - 450Kb	No	No	N/A	N/A	N/A
RS232 Port	No	Yes	No	No	Computer Interface	Computer Interface	Computer Interface
Cutter	No	Yes	Yes	Yes	No	No	No

Print Options

Print Sizes	Small, Compressed, Normal, Large	6 point to 72 point	8 point to 16 point	6 point to 24 point	All WINDOWS* fonts	0.06" - 3.50" (1.5 - 88.9 mm)	0.06" - 4.10" (1.5 - 104.1 mm)
Lines of Variable Print	47	6	1	4	Dependent on software	Dependent on software	Dependent on software
Upper and Lower Case	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Underline / Rotated / Bold Text	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Serialization	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Bar Codes	No	Yes	No	Yes (with optional font card)	Yes	Yes	Yes
Special Print Modes	Wire Marker, Center, Strip, Terminal	None	None	None	Yes (with software)	Yes	Yes

PANDUIT® Portable Labeling Systems and Printers

Select the system that suits your labeling application:



Pan-Quik™ LS3E Hand-Held Dot-Matrix Printer **Pages 6 - 11**

- Lightweight, versatile printer for high quality labels that you can print anytime, anywhere
- Prints wire markers, heat shrink markers, component labels and network labels faster than other hand-held, dot-matrix printers
- Features the **Quik-Key™** Fast Label Formatting System



LS5 and LS5E Industrial Labeling Systems **Pages 12 - 14**

- Hand-held, thermal transfer labeling system designed to meet the rugged demands of industrial labeling applications
- Prints self-laminating markers, die-cut labels, heat shrink markers, tamper evident tape, laminated tape and non-laminated tape
- Alpha and numeric sequencing and bar code capabilities



LS4H Heat Shrink / Laminated Tape Labeling System **Page 15**

- High performance, self-contained thermal transfer labeling system that produces high quality, permanent tube markers and scratch resistant laminated polyester component markers
- Compact, portable size allows usage anywhere



LS4M Multiple Line Portable Labeling System **Page 16**

- High performance, self-contained labeling system that prints up to four lines of text on 0.50" (12.7 mm) wide adhesive tape
- Provides durable, high quality, permanent labels



PTR1 Flat-Bed, Dot-Matrix Printer **Pages 17 - 19**

- Produces **ON-DEMAND™** Wire Marker Cards, Self-Laminating Wire Markers, Heat Shrink Labels — any pin-fed label!
- Straight label path eliminates the potential for jamming
- Adjustable print head gap eliminates smearing, especially on thick material such as heat shrink



DURA-MARK™ PTR2 Thermal Transfer Printer **Pages 20 - 25**

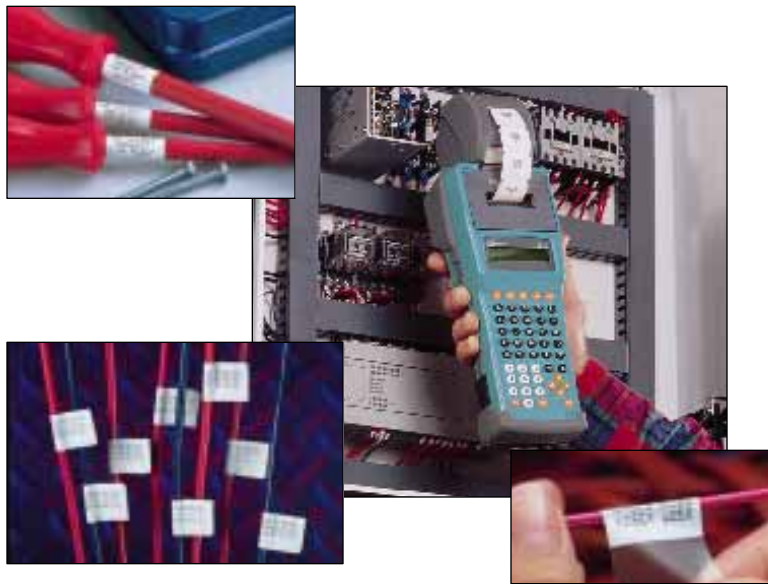
- High quality, thermal transfer printer for medium to high volume printing applications
- Create your own custom wire markers, heat shrink markers, bin markers and large labels with characters up to 3.5" (89 mm) high
- Flexibility at your fingertips!



PTR3 Thermal Transfer Printer **Page 26**

- Fast, rugged, thermal transfer printer for high volume printing applications
- Prints crisp, quality 203 dpi resolution images at speeds up to 10 inches per second
- 16 bar code symbologies plus 12 fonts are built in for making labels with minimum programming and fast data transfer

Pan-Quik™ LS3E Hand-Held Dot-Matrix Printer Features



Finally, there's a fast, reliable hand-held printer that creates crisp, clear legends in a variety of sizes, is simple to use, easy to load and offers long battery life. All at an affordable price!

The **Pan-Quik** LS3E printer lets you quickly create custom or serialized labels, wire markers, heat shrink markers, component labels, and network labels, all for greater time savings and convenience. You can save and retrieve files so its easy to produce labels with frequently used formats and legends. Labels are available with widths from 0.25" to 1.50" (6.4 mm to 38.1 mm) in a variety of materials. It's the versatile, easy way to identify wires, cables, modular jacks, faceplates, terminal blocks and patch panels.

It's perfect for on-site project locations and quick maintenance applications.

Printing That Outperforms The Competition

Features	Benefits
Instant Labels	Prints custom labels in a matter of seconds.
Print Head Travels Only as Far as Legend Requires	Labels with shorter legends print even faster!
Express Formatting Option to Set all Print Characteristics at One Time	Eliminate formatting set-up time for frequently used label formats such as wire marking, component identification and patch panel labeling.
Quik-Key™ Fast Label Formatting System	Fast set-up for: text font, size, case and position; print density and label format.
Automatic Recall of Last Label Entered	No need to reenter information after shut-off or recharging battery pack.
Save and Retrieve Files	Save time when printing frequently used labels.
Multi-Language Screen Prompts	Choose from English, German, French, Italian, Dutch, Spanish and Portuguese language screen prompts as needed.
Letter Quality Font	Produce top-quality labels with clear, crisp legends.
Rotated Text	Run type horizontal or rotated, whichever best meets your need.
Underlined Text	Separates headings or emphasizes words.
Small Text Size	More lines per lineal inch.
Automatic Serialization of Labels	Serialize in Numeric or Alphabetic sequence. Saves time when printing a series of labels.
Automatic Repeat of Legend	Able to print wire markers quickly and efficiently. Saves time when printing duplicate labels.
Portable / Battery-Operated	Able to go anywhere. Can go on-site easily to every job. No AC power required.
Long Battery Life	Increased efficiency with more labels produced between battery charges.
Easy Loading	Less downtime for changeover.
9-Pin Dot-Matrix Print Head	Printed legends are easy to read. More pins for faster speed and better print quality.
Optical Sensor	Provides perfect label registration; minimizes set-up time and wasted labels.
Lightweight	Less operator fatigue. Easy to handle and use.
AC Adapters Available	Print more labels without having to recharge battery.
On-Demand Printing	Just-in-time labels. Creates the label you want, when you want it.
Versatile	One printer to print labels, vinyl cloth wire markers, self-laminating wire markers, heat shrink wire markers, component labels, and data communication labels.
Custom Markers at Lower Cost	Reduces inventory carrying costs.
Easy to Use / User Friendly	No special training required. Anyone can make labels.

Pan-Quik™ LS3E Hand-Held Dot-Matrix Printer and Accessories



Printer Mechanical Information

Print Method: 9 pin dot-matrix print head

Size: Height: 3.6" (91.9 mm)
 Width: 4.2" (108.0 mm)
 Length: 13.2" (336.6 mm)
 Weight: 2.7 lbs. (1.2 kg)

Display: Two-line x 16 character liquid crystal display

Keyboard: 49 color coded keys with ergonomically designed keypad

Power Source: 12 VDC, 1200 mAh rechargeable Ni-Cad Battery Pack (Included)

Printer

Part Number	Description	Plug Type	Manual Language	Std. Pkg. Qty.*
LS3E†	Includes Printer, Battery Pack, Battery Charger, Printer Ribbon, Wrist Strap and Operator's Manual	North American 120	English	1
LS3E-PS			Portuguese	
LS3E-ES			Spanish	
LS3E-KIT	Includes all components of LS3E printer shown above plus LS3EAK-S AC Adapter and Carrying Case	North American 120	English	1

†Also available with Euro 230, U.K. 240 and Australian 240 Plugs and Operator's Manuals in Chinese, Dutch, French, German, Italian and Japanese. Contact factory for complete part number information.



Replacement Parts and Optional Accessories

Part Number	Description	Plug Type	Std. Pkg. Qty.*
LS3-RIB	Replacement Printer Ribbon	—	1
LS3E-BP	Replacement Battery Pack	—	1
LS3EC-S	Replacement North American 120V Battery Charger <i>Used only to charge LS3E battery. Cannot be used to power LS3E directly from Power Outlet.</i>	North American 120	1
LS3E-MAN-A†	Replacement Operator's Manual - English	—	1
LS3EACS‡	1 each: Universal AC Adapter (LS3EA), Battery Charging Pack (LS3E-CP) and Power Cord Listed (CORD-*) <i>Power LS3E directly from Power Outlet and charge LS3E Battery Pack at the same time</i>	North American 120	1
LS3EAK-S‡	1 each: Universal AC Adapter (LS3EA) and Power Cord Listed (CORD-*) <i>Power LS3E directly from Power Outlet</i>	North American 120	1
LS3ECAP	1 each: Battery Charging Pack (LS3E-CP) and Auto Plug (LS3EAP) <i>Power LS3E directly from Auto Cigarette Lighter and charge LS3E Battery Pack at the same time</i>	—	1
LS3EAP	Replacement Auto Plug <i>Power LS3E directly from Auto Cigarette Lighter</i>	—	1

†To order Operator's Manual in other languages, replace -A with -C for Chinese, -N for Dutch, -F for French, -D for German, -I for Italian, -J for Japanese, -P for Portuguese, and -E for Spanish

‡Also available with Euro 230, U.K. 240 and Australian 240 Plugs. Contact factory for complete part number information.



LS3-RIB



LS3E-BP



LS3EC-S



LS3E-MAN-A



LS3EACS



LS3EAK-S



LS3ECAP



LS3EAP

PANUIT® Pan-Quik™ LS3E Hand-Held Printer

Optional Accessories (cont.)

Part Number	Description	Plug Type	Std. Pkg. Qty.*
LS3E-CP	Replacement Battery Charging Pack <i>Power LS3E directly from AC Power Source and charge LS3E Battery Pack at the same time (Must be used with Universal AC Adapter and Power Cord - not included)</i>	—	1
LS3EA	Universal AC Adapter	—	1
CORD-S†	Replacement Power Cord	North American 120	1
LS3-CASE	Carrying Case	—	1
LS3-BS	Printer Belt Holster	—	1
PTR-CLN	Printer Cleaning Kit Contains 4 oz. (116 ml) bottle cleaning solution with MSDS, cleaning pen, 100 swabs, 12 alcohol wipes and instructions	—	1



LS3E-CP



LS3EA



CORD-S



LS3-CASE



LS3-BS



PTR-CLN

‡Also available with Euro 230, U.K. 240 and Australian 240 Plugs. Contact factory for complete part number information.

*Order number of accessories required in multiples of Std. Pkg. Qty.

Material Selection

Material Type	Temperature Range	Description	Key Feature	Color	Outdoor Rated	Hazardous Environment*	UL Rec.	CSA
SELF-LAMINATING VINYL	-40° to 150°F (-40° to 68°C)	Self-laminating film for most general wire and cable labeling	Low cost, conformable material	Clear	No	No	Yes	Yes
SELF-LAMINATING TEDLAR †	-0° to 275°F (-18° to 135°C)	Self-laminating film for wire and cable labeling in outdoor, high temperature or harsh environments	Resistant to high temperatures and U.V. light	Clear	Yes	Yes	Yes	Yes
VINYL CLOTH	-50° to 170°F (-46° to 77°C)	General purpose material, vinyl impregnated cloth resists oil and abrasion	Material can be removed and reused	White	No	No	No	No
METALLIZED POLYESTER	-40° to 311°F (-40° to 154°C)	Metallized polyester for property and asset marking	Durable material; does not stretch or easily tear	Silver	Yes	Yes	No	No
HEAT SHRINK POLYOLEFIN	-22° to 220°F (-30° to 105°C)	Polyolefin heat shrink for wire marking applications, excellent print quality	Secure identification	White, Yellow	No	No	No	No

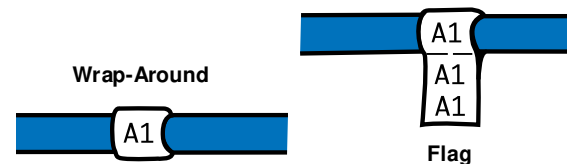
†TEDLAR is the registered trademark of E. I. DuPont Co.

*For complete material specification information, contact Product Management at 1-888-506-5400, ext. 7337

The label codes shown in each chart are distinct codes used to tell the printer the size of the label.

NEW! Wire Marker Strips

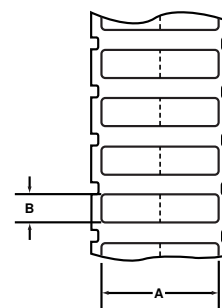
- Eliminate the carrying costs, shelf-life and inventory concerns of preprinted marker cards
- Marker strips are perforated so they can be used as full size or half size markers in wrap-around or flag style
- Custom firmware for fast and easy on-site wire marking
- Backscore on liner makes strips easy to remove and apply
- Material: White Vinyl Cloth



Part Number	Label Code Half / Full	Width A In. (mm)	Length B In. (mm)	Normal Text		Labels Per Roll	Std. Pkg. Qty.*
				Lines Per Label	Characters Per Line		
L3PCM36	W107 / W207	1.50 (38.1)	0.25 (6.4)	3 / 6	1	500	1 Roll
L3PCM25	W109 / W209	1.50 (38.1)	0.36 (9.1)	3 / 6	2	500	
L3PCM18	W113 / W213	1.50 (38.1)	0.50 (12.7)	3 / 6	4	500	

* Order number of rolls required in multiples of Std. Pkg. Qty.

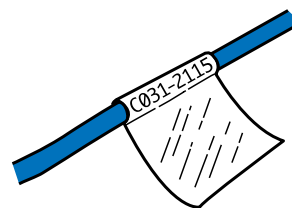
Note: Based on printer manufacture date, firmware revision may be required to use these labels. Contact factory for upgrade information.



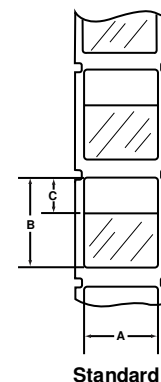
Wire Marker Labels

Self-Laminating Vinyl Wire Markers

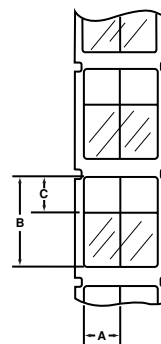
- Designed to identify all sizes of wires and cables quickly and economically
- Clear overlaminates protect legend
- Part numbers shown have white print-on area
- Multiple across labels available



Part Number	Label Code	Total Area A x B In. (mm)	Print-On Area A x C In. (mm)	Normal Text‡		Outside Cable Diameter Range # In. (mm)	Labels Per Roll	Std. Pkg. Qty.*
				Lines Per Label	Characters Per Line			
Vinyl Material (Indoor Applications)								
LWS-6	1310	0.50 x 0.75 (12.7 x 19.1)	0.50 x 0.38 (12.7 x 9.5)	2	4	0.12 - 0.12 (3.1 - 3.1)	250	1 Roll
LWS-8	2510	0.50 x 0.75 (12.7 x 19.1)	0.50 x 0.38 (12.7 x 9.5)	2	4		250	
LWS-7	2510	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.5)	2	10		250	
LWS-4	1310	0.50 x 1.00 (12.7 x 25.4)	0.50 x 0.38 (12.7 x 9.5)	2	4	0.12 - 0.20 (3.1 - 5.1)	250	
LWS-5	2510	1.00 x 1.00 (25.4 x 25.4)	1.00 x 0.38 (25.4 x 9.5)	2	10		250	
LWS-1	1313	0.50 x 1.25 (12.7 x 31.8)	0.50 x 0.50 (12.7 x 12.7)	3	4	0.16 - 0.24 (4.1 - 6.1)	250	
LWS-9	2513	0.50 x 1.25 (12.7 x 31.8)	0.50 x 0.50 (12.7 x 12.7)	3	4		500	
LWS-2†	2513	1.00 x 1.25 (25.4 x 31.8)	1.00 x 0.50 (25.4 x 12.7)	3	10		250	
LWS-3	3813	1.50 x 1.25 (38.1 x 31.8)	1.50 x 0.50 (38.1 x 12.7)	3	16	250		
LWS-10†	2519	1.00 x 2.50 (25.4 x 63.5)	1.00 x 0.75 (25.4 x 19.1)	5	10	0.24 - 0.56 (6.1 - 14.2)	100	
LWS-11	3819	1.50 x 2.50 (38.1 x 63.5)	1.50 x 0.75 (38.1 x 19.1)	5	16		100	
LWS-12†	2525	1.00 x 4.00 (25.4 x 101.6)	1.00 x 1.00 (25.4 x 25.4)	7	10	0.32 - 0.95 (8.1 - 24.1)	100	
LWS-13	3825	1.50 x 4.00 (38.1 x 101.6)	1.50 x 1.00 (38.1 x 25.4)	7	16		100	
LWS-14	2525	1.00 x 6.00 (25.4 x 152.4)	1.00 x 1.00 (25.4 x 25.4)	7	10	0.32 - 1.59 (8.1 - 40.4)	50	
TEDLAR® Material (Indoor /Outdoor Applications)								
LWS-54	2513	1.00 x 1.25 (25.4 x 31.8)	1.00 x 0.50 (25.4 x 12.7)	3	10	0.16 - 0.24 (4.1 - 6.1)	250	1 Roll



Standard

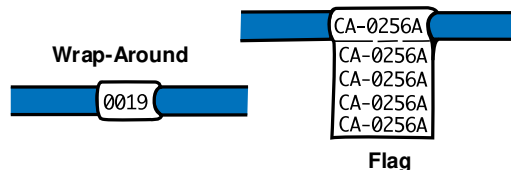


Butt-Cut

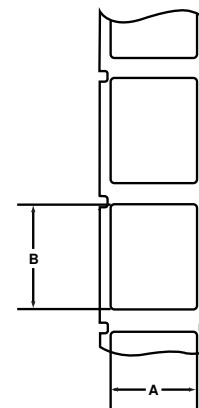
‡ Similar information for other text sizes provided in LS3E manual
 † Label available with colored print-on area. Colors may include YL for Yellow, RD for Red, BU for Blue, GR for Green, IG for Gray, OR for orange, PR for Purple and BR for Brown. To order, add appropriate suffix to part number. Contact factory for availability.
 * Denotes butt-cut label, 2 half-wide marker strips
 ®TEDLAR is the registered trademark of E. I. DuPont Co.
 # Refer to Wire Size Selection Guide on page 196 to review diameters of commonly used cables
 * Order number of rolls required in multiples of Std. Pkg. Qty.

Wire Marker Labels

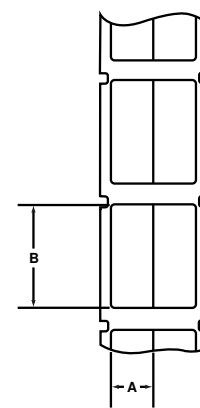
- Can be used as wrap-around or flag style markers
- Can also be used for component labeling
- Material: White Vinyl Cloth



Part Number	Label Code	A Width In. (mm)	B Length In. (mm)	Normal Text‡		Labels Per Roll	Std. Pkg. Qty.*
				Lines Per Label	Characters Per Line		
LW-4	1319	0.50 (12.7)	0.75 (19.1)	5	4	250	1 Roll
LW-6	2519	0.50 (12.7)	0.75 (19.1)	5	4	500	
LW-3	1325	0.50 (12.7)	1.00 (25.4)	7	4	250	
LW-1	1332	0.50 (12.7)	1.25 (31.8)	9	4	250	
LW-5	2532	0.50 (12.7)	1.25 (31.8)	9	4	500	
LW-2	2532	1.00 (25.4)	1.25 (31.8)	9	10	250	



Standard

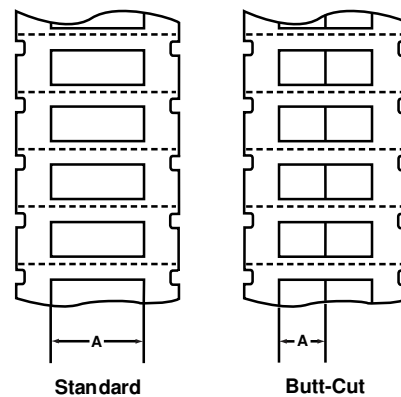
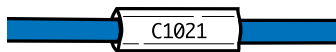


Butt-Cut

‡ Similar information for other text sizes provided in LS3E manual
 * Denotes butt-cut label, 2 half-wide marker strips
 * Order number of rolls required in multiples of Std. Pkg. Qty.

Heat Shrink Tubing for Permanent Wire and Cable Identification

- Service Temperature Range: -22°F to 220°F (-30°C to 105°C)
- Shrink Ratio: 3:1 @ 212°F (100°C)
- Flammability: Meets U.L. Standard 224 for flammability
- Material: Flattened Polyolefin
- Use with Panduit Heat Shrink Tools and Accessories shown on [page 25](#)



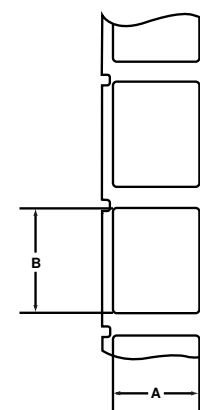
Part Number		Label Code	Width A In. (mm)	Markers Per Row	Outside Cable Diameter Range [¶] In. (mm)	Normal Text [‡]		Markers Per Roll	Std. Pkg. Qty.*
White	Yellow					Lines Per Label	Characters Per Line		
LHSW-1	LHSY-1	T206	0.50 (12.7) [•]	2	0.04 - 0.13 (1.1 - 3.2)	1	4	1 Roll	
LHSW-2	LHSY-2	T106	1.00 (25.4)	1		0.06 - 0.19 (1.6 - 4.8)	2		
LHSW-6	LHSY-6	T208	0.50 (12.7) [•]	2	0.08 - 0.25 (2.1 - 6.4)		2		
LHSW-7	LHSY-7	T108	1.00 (25.4)	1		0.17 - 0.50 (4.2 - 12.7)	2		
LHSW-3	LHSY-3	T211	0.50 (12.7) [•]	2			2		
LHSW-4	LHSY-4	T111	1.00 (25.4)	1			2		
LHSW-5	LHSY-5	T121	1.00 (25.4)	1			5		

‡ Similar information for other text sizes provided in LS3E manual
 • Denotes butt-cut label, 2 half-wide marker strips
 ¶ Refer to Wire Size Selection Guide on [page 196](#) to review diameters of commonly used cables
 * Order the number of rolls required in multiples of Std. Pkg. Qty.

Component Labels

- Available in a wide range of sizes
- Material: White Vinyl Cloth

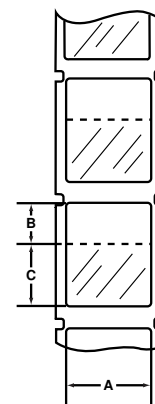
Part Number	Label Code	A Width In. (mm)	B Length In. (mm)	Color	Normal Text [‡]		Labels Per Roll	Std. Pkg. Qty.*
					Lines Per Label	Characters Per Line		
LC-6	1307	0.50 (12.7)	0.28 (7.0)	White	1	4	500	1 Roll
LC-3	1313	0.50 (12.7)	0.50 (12.7)	White	3	4	500	
LC-7	2507	1.00 (25.4)	0.28 (7.0)	White	1	10	500	
LC-9	2510	1.00 (25.4)	0.40 (10.2)	White	2	10	500	
LC-10	2513	1.00 (25.4)	0.50 (12.7)	White	3	10	500	
LC-4	2519	1.00 (25.4)	0.75 (19.1)	White	5	10	250	
LC-2	2525	1.00 (25.4)	1.00 (25.4)	White	7	10	250	
LC-8	3807	1.50 (38.1)	0.28 (7.0)	White	1	16	500	
LC-11	3813	1.50 (38.1)	0.50 (12.7)	White	3	16	500	
LC-5	3819	1.50 (38.1)	0.75 (19.1)	White	5	16	250	
LC-1	3832	1.50 (38.1)	1.25 (31.8)	White	9	16	250	



‡ Similar information for other text sizes provided in LS3E manual
 * Order number of rolls required in multiples of Std. Pkg. Qty.

Laminated Label

- Print and apply top white label and overlaminate with clear bottom label
- Material: GMV3 Vinyl



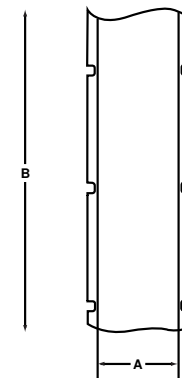
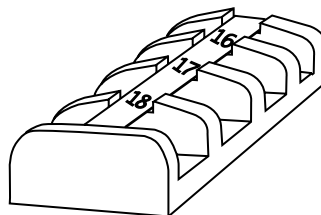
Part Number	Label Code	Print-On Label Size A x B In. (mm)	Overlamine Label Size A x C In. (mm)	Normal Text‡		Labels/ Roll	Std. Pkg.*
				Lines Per Label	Characters Per Line		
LWS-11P	3819	1.50 x 0.75 (38 x 19)	1.50 x 1.75 (38 x 25)	5	16	100	1 Roll

‡ Similar information using other text sizes available in LS3E Manual

* Order number of rolls required in multiples of Std. Pkg.

Terminal Block Labels

- Used to make on-demand terminal block label strips
- 35 ft. (10.7 m) continuous roll
- Material: White Vinyl Cloth



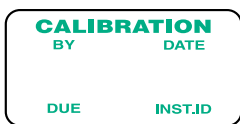
Part Number	Label Code	Width A In. (mm)	Length B Ft. (m)	Labels Per Roll	Std. Pkg. Qty.*
LC-14	0900	0.31 (7.9)	35 ft. (10.7 m)	1	1 Roll
LC-15	1000	0.38 (9.5)	35 ft. (10.7 m)	1	

* Order number of rolls required in multiples of Std. Pkg. Qty.

Asset / Quality Assurance Labels



LC-38



LC-39



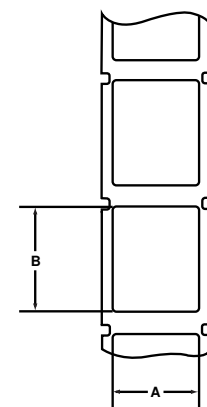
LC-40



LC-41

Part Number	Label Code	Width A In. (mm)	Length B In. (mm)	Material	Color (Legend/ Background)	Labels Per Roll	Std. Pkg. Qty.*
LC-38	3611	1.50 (38.1)	0.75 (19.1)	Polyester	Black/Silver	250	1 Roll
LC-39	3811	1.50 (38.1)	0.75 (19.1)	Vinyl Cloth	Green/White	250	
LC-40	3813	1.50 (38.1)	0.75 (19.1)	Vinyl Cloth	Black/White	250	
LC-41	3617	1.50 (38.1)	0.75 (19.1)	Polyester	Black/Silver	250	

* Order number of rolls required in multiples of Std. Pkg. Qty.



LS5 and LS5E Industrial Labeling Systems

Hand-held, portable labeling systems designed to meet the rugged demands of industrial labeling applications



Produces:

- Self-laminating labels and wire markers
- Continuous laminated tape including bar codes
- Non-laminated commercial tapes
- Heat shrink wire markers
- Tamper-evident labels
- Die-cut labels

Mechanical Information

Print Method:	Thermal transfer printing
Size:	Height: 4.5" H x 6.0" W x 11.5" D (114 mm x 152 mm x 292 mm) Weight: 4.7 lbs. (2.1 kg) with batteries
Graphics Resolution:	203 dpi
Interface:	PCMCIA application card interface
Communications:	RS232 serial communication port
Display:	Two-line x 16 character display
Operating Temperature:	32° to 104°F (0° to 40°C)
Power Source:	6 C-Cell Ni-Cad batteries (Included) UL Listed, CSA Approved Power Adapter (Optional)

Choose the System which best suits your application:

	LS5 Printer Part Number: LS5-KIT	LS5 Data-Comm Printer Part Number: LS5-KITDC	LS5E Enhanced Printer Part Number: LS5E
Usable Memory	16K	16K	450K
Inherent Bar Codes	Code 39, Code 128, Codabar, I 2 of 5, EAN 8, EAN 13, UPC A, UPC E	Code 39, Code 128, Codabar, I 2 of 5, EAN 8, EAN 13, UPC A, UPC E	Code 39, Code 128, Codabar, I 2 of 5, EAN 8, EAN 13, UPC A, UPC E, PDF417, MSI Plessey
Enhanced Printer Features	—	—	Time and Date Clock Tape Feed Control Annunciator
Prompting Languages	English, Spanish, French, German, Portuguese, Italian	English, Spanish, French, German, Portuguese, Italian	English, Spanish, French, German, Portuguese, Italian, Swedish, Danish, Dutch, Norwegian and Finish
Print Styles	Outline, Shadow, Underline, Bold, Frame, Italic, Mirror and Rotated	Outline, Shadow, Underline, Bold, Frame, Italic, Mirror and Rotated	Underline, Bold, Frame, Italic, Mirror and Rotated
Edit Feature	Yes	Yes	Yes
Alpha/Numeric Sequencing	Yes	Yes	Yes
Repeat 999 times	Yes	Yes	Yes
Left/Right/Center Justification	Yes	Yes	Yes
Scaling	Yes	Yes	Yes
Up to 6 Lines of Text	Yes	Yes	Yes
Data-Comm Templates	No	Yes	No

Printers

Part Number	Description	Std. Pkg. Qty.*
LS5-KIT	Industrial Labeling System Kit: (Includes LS5 Printer, 6 C-Cell Ni-Cad Batteries, Ni-Cad Battery Charger, one LS5-33 Laminated 1" Industrial Tape Cartridge, 8 resident bar code fonts)	1
LS5-KITDC	Data-Comm Labeling System Kit: same components as LS5-KIT above, plus preloaded with Data-Comm Label Formats	
LS5E	Enhanced Industrial Labeling System Kit: (Includes LS5E Printer, 6 C-Cell Ni-Cad Batteries, Ni-Cad Battery Charger, one LS5-33 Laminated 1" Industrial Tape Cartridge, one 9 pin null modem cable, 10 resident bar code fonts)	1

PANDUIT® LS5 and LS5E Industrial Portable Labeling Systems

Accessories

Part Number	Description	Std. Pkg. Qty.*
LS5-1	Replacement Battery Charger	1
LS5-2	Soft Sided Carrying Case (Optional)	1
LS5-3	Hand Strap (Optional)	1
LS5-60	AC Power Supply (Optional)	1
LS5-DCT	Data-Comm Templates Disk and 9-pin null modem cable	1

Part Number	Description	Std. Pkg. Qty.*
LS5-D	WINDOWS [®] Driver Disk (Optional) For WINDOWS 3.1, 3.11 and 95	1
PTR-CLN	Printer Cleaning Kit; Contains 4 oz. (116 ml) bottle cleaning solution with MSDS, cleaning pen, 100 swabs, 12 alcohol wipes and instructions	1

*Order number of pieces required in multiples of Std. Pkg. Qty.
[^] WINDOWS is a registered trademark of Microsoft Corporation

Selecting the Correct Font Size

The charts below show the Font Point Size to use based on the tape or tubing size used and lines of text desired:

Tape Width In. (mm)	Lines of Text					
	1 Line	2 Lines	3 Lines	4 Lines	5 Lines	6 Lines
0.50 (12.7)	30 pt	14 pt	8 pt	6 pt	—	—
0.80 (20.3)	55 pt	24 pt	16 pt	12 pt	9 pt	7 pt
1.00 (25.4)	72 pt	33 pt	21 pt	16 pt	12 pt	10 pt

Tubing Diameter In. (mm)	Lines of Text					
	1 Line	2 Lines	3 Lines	4 Lines	5 Lines	6 Lines
0.25 (6.4)	24 pt	10 pt	6 pt	—	—	—
0.38 (9.5)	36 pt	16 pt	10 pt	8 pt	6 pt	—
0.50 (12.7)	46 pt	20 pt	13 pt	10 pt	7 pt	6 pt

Laminated Industrial Tape Cartridges

- Laminated Industrial Tape is designed for tough jobs and can withstand extremes of heat and cold, resist abrasion, UV light exposure, and the most commonly used chemicals and solvent

Part Number	Tape Width In. (mm)	Tape Length Ft. (m)	Legend/ Background Color	Std. Pkg. Qty.*
LS5-530	0.50 (12.7)	40 (12.2)	Black/Clear	1
LS5-533			Black/White	1
LS5-535			Red/White	1
LS5-537			Black/Red	1
LS5-538			Black/Yellow	1
LS5-544			White/Black	1
LS5-547			White/Blue	1
LS5-548			White/Red	1
LS5-70			0.80 (20.3)	40 (12.2)
LS5-72	Red/Clear	1		
LS5-73	Black/White	1		
LS5-74	Blue/White	1		
LS5-75	Red/White	1		
LS5-77	Black/Red	1		
LS5-78	Black/Yellow	1		
LS5-79	Black/Green	1		
LS5-82	White/Clear	1		
LS5-87	White/Blue	1		
LS5-88	White/Red	1		
LS5-89	White/Green	1		
LS5-90	Black/Orange	1		

Part Number	Tape Width In. (mm)	Tape Length Ft. (m)	Legend/ Background Color	Std. Pkg. Qty.*
LS5-30	1.00 (25.4)	40 (12.2)	Black/Clear	1
LS5-32			Red/Clear	1
LS5-33			Black/White	1
LS5-34			Blue/White	1
LS5-35			Red/White	1
LS5-37			Black/Red	1
LS5-38			Black/Yellow	1
LS5-39			Black/Green	1
LS5-42			White/Clear	1
LS5-44			White/Black	1
LS5-47			White/Blue	1
LS5-48			White/Red	1
LS5-49			White/Green	1
LS5-50			Black/Orange	1

*Order number of cartridges required in multiples of Std. Pkg. Qty.

Laminated Tamper-Evident Tape Cartridge

Part Number	Tape Width In. (mm)	Tape Length Ft. (m)	Legend/ Background Color	Std. Pkg. Qty.*
LS5-33T	1.00 (25.4)	40 (12.2)	Black/White	1

*Order number of cartridges required in multiples of Std. Pkg. Qty.

PANDUIT® LS5 and LS5E Industrial Portable Labeling Systems

- Non-Laminated Commercial Tape Supply is designed for indoor applications where abrasion and chemical resistance are not required.

Non-Laminated Commercial Tape Cartridge

Part Number	Tape Width In. (mm)	Tape Length Ft. (m)	Legend/Background Color	Std. Pkg. Qty.*
LS5-30C	1.00 (25.4)	4.00 (12.2)	Black/Clear	1
LS5-33C			Black/White	1
LS5-35C			Red/White	1
LS5-38C			Black/Yellow	1



Electronic Component Labeling

Die-Cut Label Cartridges

Part Number	Material	Color	Label Size Width x Length In. (mm)	Labels/Cartridge	Std. Pkg. Qty.*
LS5-17	Polyester	White	0.50 x 1.00 (12.7 x 25.4)	174	1
LS5-18	Polyester	White	0.66 x 3.44 (16.8 x 87.4) File Folder Size	92	1
LS5-19	Synthetic Paper	White	0.66 x 3.44 (16.8 x 87.4) File Folder Size	92	1
LS5-20	Synthetic Paper	White	1.00 x 4.00 (25.4 x 101.6)	82	1



Marking Wires and Cables

Self-Laminating Wire Marker Cartridges

Part Number	Material	Print-On Area Color	Label Size Width x Length In. (mm)	Print-On Area Width x Length In. (mm)	Nominal Cable O.D.* In. (mm)	Labels/Cartridge	Std. Pkg. Qty.*
LS5-11	Vinyl	White	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.5)	0.12 - 0.12 (3.1 - 3.1)	200	1
LS5-12	TEDLAR [▲]	White	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.5)		200	1
LS5-13	Vinyl	White	1.00 x 1.25 (25.4 x 31.8)	1.00 x 0.50 (25.4 x 12.7)	0.16 - 0.24 (4.1 - 6.1)	160	1
LS5-14	TEDLAR	White	1.00 x 1.25 (25.4 x 31.8)	1.00 x 0.50 (25.4 x 12.7)		160	1
LS5-15	Vinyl	White	1.00 x 2.50 (25.4 x 63.5)	1.00 x 0.75 (25.4 x 19.1)	0.24 - 0.56 (6.1 - 14.2)	110	1
LS5-16	TEDLAR	White	1.00 x 2.50 (25.4 x 63.5)	1.00 x 0.75 (25.4 x 19.1)		110	1
LS5-10	Vinyl	White	1.00 x 4.00 (25.4 x 101.6)	1.00 x 1.00 (25.4 x 25.4)	0.32 - 0.95 (8.1 - 24.1)	83	1

[▲]TEDLAR is a registered trademark of E.I. DuPont Co.

*Refer to Wire Size Selection Guide on [page 196](#) to review diameters of commonly used cables



- Service Temperature Range: -22°F to 220°F (-30°C to 105°C)
- Shrink Ratio 3:1 @ 212°F (100°C)
- Flammability: Meets U.L. Standard 224 for flammability

Flattened Polyolefin Heat Shrink Tubing Supply Cartridges

Part Number	Diameter In. (mm)	Nominal Cable O.D.* In. (mm)	Color	Length In. (mm)	Std. Pkg. Qty.*
LS5-HS3	0.25 (6.4)	0.08 - 0.25 (2.1 - 6.4)	Black/White	100 (2540)	1
LS5-HS4	0.38 (9.5)	0.13 - 0.38 (3.2 - 9.5)			1
LS5-HS5	0.50 (12.7)	0.17 - 0.50 (4.2 - 12.7)			1
LS5-HS8	0.25 (6.4)	0.08 - 0.25 (2.1 - 6.4)	Black/Yellow	100 (2540)	1
LS5-HS9	0.38 (9.5)	0.13 - 0.38 (3.2 - 9.5)			1
LS5-HS10	0.50 (12.7)	0.17 - 0.50 (4.2 - 12.7)			1

*Refer to Wire Size Selection Guide on [page 196](#) to review diameters of commonly used cables

See [page 25](#) for Heat Shrink Tools and Accessories

LS4H Heat Shrink Tube Marking System

High performance, self-contained marking system that produces heat shrink tube markers for wire and cable identification and laminated component markers.



- Provides durable, high quality permanent tube markers
- Indestructible 3:1 flattened polyolefin heat shrink tubing cartridge meets UL-224 requirements
- Laminated tape cartridge supplies built in thermal transfer ribbon that prints up to four sizes of text on 0.50" (12.7mm) wide adhesive tape
- Can also be powered by 4 D-Cell Ni-Cad batteries in locations where power is not available

Printer Features

- Prints in 4 standard font sizes: 8, 10, 12, and **16** point Helvetica
- Prints in **bold type** or underline text for positive identification of numbers
- Prints markers either horizontally or vertically
- Scratch resistant marking
- Repeat legend up to 99 times, eliminating the need to re-key repetitive information
- Automatic alpha and numeric sequencing saves time
- Legend can be centered automatically on tube size selected



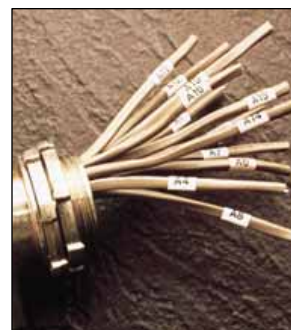
Vertical and underlining capability



Automatic Sequencing



Repeat for short runs



Scratch resistant marking

Printer and Accessories

Part Number	Description	Std. Pkg.*
LS4H	Heat Shrink Tube Marker Kit: Includes LS4H Printer, 115 VAC Power Adaptor, one black / white cartridge 0.19" (4.8mm) tubing, and one black / white cartridge 0.25"(6.4mm) tubing	1
LS4-60	Replacement 115 VAC Power Adaptor	1
LS4-53	Ni-Cad Battery Charger (Optional)	1
LS4H-7	Black Carrying Case (Optional)	1
LS4H-9	Scissors (Optional)	1

Laminated Industrial Supply Cartridges

Part Number	Width In. (mm)	Length Ft. (m)	Color	Std. Pkg.*
LS4H-30I	0.50 (12.7)	50 (15.2)	Black/Clear	1
LS4H-33I	0.50 (12.7)	50 (15.2)	Black/White	1
LS4H-37I	0.50 (12.7)	50 (15.2)	Black/Red	1
LS4H-38I	0.50 (12.7)	50 (15.2)	Black/Yellow	1

Heat Shrink Tubing Supply Cartridges

- Material: Flattened Polyolefin
- Shrink ratio 3:1 @ 212°F (100°C)
- Flammability: Meets U.S. Standard 224 for flammability
- Used with Panduit Heat Shrink Tools and Accessories shown on [page 25](#)

Part Number	Diameter In. (mm)	Nominal Cable O.D. In. (mm)	Length In. (mm)	Color	Std. Pkg.*
LS4H-1	0.13 (3.2)	0.04 - 0.13 (1.1 - 3.2)	100 (2540)	Black/White	1
LS4H-2	0.19 (4.8)	0.06 - 0.19 (1.6 - 4.8)	100 (2540)		1
LS4H-3	0.25 (6.4)	0.08 - 0.25 (2.1 - 6.4)	100 (2540)		1
LS4H-4	0.13 (3.2)	0.04 - 0.13 (1.1 - 3.2)	100 (2540)	Black/Yellow	1
LS4H-5	0.19 (4.8)	0.06 - 0.19 (1.6 - 4.8)	100 (2540)		1
LS4H-6	0.25 (6.4)	0.08 - 0.25 (2.1 - 6.4)	100 (2540)		1

*Order number of Std. Pkgs. required in multiples of Std. Pkg. Qty.

PANDUIT® LS4M Multiple Line Portable Labeling Systems

LS4M Multiple Line Portable Labeling System

High performance, self-contained labeling system that prints up to four lines of text on 0.50" (12.7 mm) wide adhesive tape.



- Laminated, adhesive backed polyester tape is heat and scratch resistant, supplied in convenient cartridges
- Label cartridges feature built-in thermal transfer ribbon, overlamine and cutter for trouble-free performance
- Indestructible polyester laminate insures no loss of readability
- Compact, portable size allows usage anywhere
- Use with AC Power Adapter (included) or four Ni-Cad batteries (not included)

Printer Features

- Prints in 3 standard font sizes 6, 8, and 12 point Helvetica
- Prints in bold, outline, vertical, negative image, mirror image, shadow and underline
- Prints marker either horizontally or vertically
- Automatic alpha and numeric sequencing
- Prints up to 15 characters per second
- Text may be scaled 2X for larger more legible print
- 16-character display screen allows text verification prior to printing
- Prints from 1-4 lines on single strip of tape



Circuit board labeling



Label switches, relays and other devices



Telecommunications labeling



Inventory and bin-marking

Printer and Accessories

Part Number	Description	Std. Pkg.*
LS4M	Multiple Line Labeling System (Includes AC Power Adapter, batteries not included)	1
LS4-60	Replacement 115 VAC Power Adapter	1
LS4-53	Ni-Cad Battery Charger (Optional)	1
LS4-54	3 of 9 Bar Code Font Card (Optional)	1
LS4-57	6 point Helvetica Regular Font Card (Optional)	1
LS4-58	18 point Helvetica Regular Font Card (Optional)	1
LS4-59	36 point Helvetica Regular Font Card (Optional)	1
LS4H-7	Black Carrying Case (Optional)	1

LS4M Industrial Labeling Tape (Heavy duty, outdoor)

- Withstand extremes of heat and cold, resist abrasion, UV light exposure, and the most commonly used chemicals and solvents.

Part Number	Width In. (mm)	Length Ft. (m)	Color	Std. Pkg.*
LS4-30I	0.50 (12.7)	50 (15.2)	Black/Clear	1
LS4-33I			Black/White	1
LS4-38I			Black/Yellow	1
LS4-42I			White/Clear	1
LS4-44I			White/Clear	1
			White/Black	1

Standard Labeling Tapes

- Designed for indoor applications where abrasion and chemical resistance are not required

Part Number	Width In. (mm)	Length Ft. (m)	Color	Std. Pkg.*
LS4-30	0.50 (12.7)	50 (15.2)	Black/Clear	1
LS4-31			Blue/Clear	1
LS4-32			Red/Clear	1
LS4-33			Black/White	1
LS4-34			Blue/White	1
LS4-35			Red/White	1
LS4-36			Black/Blue	1
LS4-37			Black/Red	1
LS4-38			Black/Yellow	1
LS4-39			Black/Green	1
LS4-42			White/Clear	1
LS4-43			Green/White	1
LS4-44			White/Black	1
LS4-45			Black/Silver	1
LS4-46			Black/Gold	1
LS4-47			White/Blue	1
LS4-48			White/Red	1
LS4-49			White/Green	1
LS4-50			Black/Orange	1

*Order number of Std. Pkgs. required

PTR1 Flat-Bed, Dot-Matrix Printer



Produces Custom Markers Instantly!

- Use with Panduit Dot-Matrix and Heat Shrink labels
- Use with Panduit **ON-DEMAND™** Wire Marker Cards
- Provides excellent print quality and sharp, permanent characters
- Adjustable print head gap eliminates smearing, especially on thick material
- Straight label path eliminates the potential for jamming or peeling of labels
- Durable rugged metal construction is ideal for industrial environments
- Compatible with **PAN-MARK™** for **WINDOWS^ 2.X** or higher, **PAN-MARK LT** and **PROG-LITE** Labeling Software Programs (see **pages 27-32** for complete software product information).

Mechanical Information

Print Method: 24-pin dot-matrix print head

Size:

Height:	4.8"	(122 mm)
Width:	15.1"	(384 mm)
Depth:	7.5"	(190 mm)
Weight:	10 lbs.	(4.5 kg)

Print Speed: Draft: 166 Characters Per Second
Near Letter Quality: 83 Characters Per Second

Print Buffer: 8 KB

Graphics Horizontal: 180 dpi

Resolution: Vertical: 120 dpi

Forms Control: Adjustable width tractors accommodate 1.50" (38.1 mm) to 10.25" (260.3 mm) width pinfeed forms

Interface and Communications: Centronics parallel 36 pin and DB25 (RS232) serial interface

Ribbon Width: 0.50" (12.7 mm)

Voltage: Autoranging 115 VAC +/- 10% to 230 VAC +/- 10%

Fuse: 1 Amp Fast-Blow for 115/230 VAC

Part Number	Description	Std. Pkg. Qty.*
PTR1	Dot-Matrix Printer Kit (Includes Printer, AC Power Cord, Operator Manual and Indelible Ribbon)	1
PTR1-AC	Replacement AC Power Cord up to 115V	1
PTR1-AC220	Replacement AC Power Cord up to 220V	1
PTR1-RIB	Replacement Indelible Ink Ribbon	1
PTR1-STD	Standard Ink Ribbon (Optional)	1
PTR1-MAN	Replacement PTR1 Operating Manual	1
PTR-CLN	Printer Cleaning Kit Contains 4 oz. (116 ml) bottle cleaning solution with MSDS, cleaning pen, 100 swabs, 12 alcohol wipes and instructions	1

*Order number of printers or accessories required in multiples of Std. Pkg. Qty.

^WINDOWS is a registered trademark of Microsoft Corp.

Computer Printable Heat Shrink Tubing for Permanent Wire and Cable Identification



- Pre-cut tubing mounted on pin-fed plastic carrier
- Material: Flattened Polyolefin
- Service Temperature Range: -22°F to 220°F (-30°C to 105°C)
- Shrink Ratio 3:1 @ 212°F (100°C)
- Flammability: Meets U.L. Standard 224 for flammability
- Use with Panduit Heat Shrink Tools and Accessories shown on [page 25](#)

Part Number	Diameter In. (mm)	Marker Width In. (mm)	Markers Per Row	Nominal Cable Outside Diameter [■] In. (mm)	Carrier Width In. (mm)	Color	Markers Per Roll	Std. Pkg. Qty.*
LHS12W1	0.13 (3.2)	2.00 (50.8)	1	0.04 - 0.13 (1.1 - 3.2)	3.50 (88.9)	White	500	1
LHS12W2	0.13 (3.2)	1.00 (25.4)	2				1000	1
LHS12W4	0.13 (3.2)	0.50 (12.7)	4				2000	1
LHS18W1	0.18 (4.8)	2.00 (50.8)	1	0.06 - 0.18 (1.6 - 4.8)			500	1
LHS18W2	0.18 (4.8)	1.00 (25.4)	2				1000	1
LHS18W4	0.18 (4.8)	0.50 (12.7)	4				2000	1
LHS25W1	0.25 (6.4)	2.00 (50.8)	1	0.08 - 0.25 (2.1 - 6.4)		500	1	
LHS25W2	0.25 (6.4)	1.00 (25.4)	2			1000	1	
LHS25W4	0.25 (6.4)	0.50 (12.7)	4			2000	1	
LHS50W1	0.50 (12.7)	2.00 (50.8)	1	0.17 - 0.50 (4.2 - 12.7)		500	1	
LHS50W2	0.50 (12.7)	1.00 (25.4)	2			1000	1	
LHS12Y1	0.13 (3.2)	2.00 (50.8)	1	0.04 - 0.13 (1.1 - 3.2)		3.50 (88.9)	Yellow	500
LHS12Y2	0.13 (3.2)	1.00 (25.4)	2		1000			1
LHS12Y4	0.13 (3.2)	0.50 (12.7)	4		2000			1
LHS18Y1	0.18 (4.8)	2.00 (50.8)	1	0.06 - 0.18 (1.6 - 4.8)	500			1
LHS18Y2	0.18 (4.8)	1.00 (25.4)	2		1000			1
LHS18Y4	0.18 (4.8)	0.50 (12.7)	4		2000			1
LHS25Y1	0.25 (6.4)	2.00 (50.8)	1	0.08 - 0.25 (2.1 - 6.4)	500		1	
LHS25Y2	0.25 (6.4)	1.00 (25.4)	2		1000		1	
LHS25Y4	0.25 (6.4)	0.50 (12.7)	4		2000		1	
LHS50Y1	0.50 (12.7)	2.00 (50.8)	1	0.17 - 0.50 (4.2 - 12.7)	500		1	
LHS50Y2	0.50 (12.7)	1.00 (25.4)	2		1000		1	

[■]Refer to Wire Size Selection Guide on [page 196](#) to review diameters of commonly used cables

*Order number of rolls required in multiples of Std. Pkg. Qty

For information on our complete line of Dot-Matrix Labels and Data Plates that can be used with the PTR1 Dot-Matrix Printer, see [pages 80-125](#).

ON-DEMAND™ Wire Marker Cards for Standard and Custom Wire Markers



Marker card rolls make the process easy. Simply create the custom legend using **PROG-LITE** Label Printing Software...



...print using the PTR1 Printer and tear off the plastic liner. Your custom card is ready to go!

BLANK CLOTH MARKER (Perforated to provide half markers)



36 Markers Per Card



33 Markers Per Card



25 Markers Per Card



20 Markers Per Card



18 Markers Per Card

Part Number	Material	Markers Per Card	Print-On Area Width x Length In. (mm)	Total Marker Size Width x Length In. (mm)	Characters Per Line Per Marker†	Std. Pkg. Qty*
PCM36R-TL	White Vinyl Cloth	36	0.25 x 1.50 (6.4 x 38.1)	0.25 x 1.50 (6.4 x 38.1)	1 to 2	250
PCM33R-TL		33	0.27 x 1.50 (6.9 x 38.1)	0.27 x 1.50 (6.9 x 38.1)	1 to 2	250
PCM25R-TL		25	0.36 x 1.50 (9.1 x 38.1)	0.36 x 1.50 (9.1 x 38.1)	1 to 3	250
PCM20R-TL		20	0.45 x 1.50 (11.3 x 38.1)	0.45 x 1.50 (11.3 x 38.1)	1 to 4	250
PCM18R-TL		18	0.50 x 1.50 (12.6 x 38.1)	0.50 x 1.50 (12.6 x 38.1)	1 to 5	250
PCM36RY-TL	Yellow Vinyl Cloth	36	0.25 x 1.50 (6.4 x 38.1)	0.25 x 1.50 (6.4 x 38.1)	1 to 2	250
PCM33RY-TL		33	0.27 x 1.50 (6.9 x 38.1)	0.27 x 1.50 (6.9 x 38.1)	1 to 2	250
PCM25RY-TL		25	0.36 x 1.50 (9.1 x 38.1)	0.36 x 1.50 (9.1 x 38.1)	1 to 3	250
PCM20RY-TL		20	0.45 x 1.50 (11.3 x 38.1)	0.45 x 1.50 (11.3 x 38.1)	1 to 4	250
PCM18RY-TL		18	0.50 x 1.50 (12.6 x 38.1)	0.50 x 1.50 (12.6 x 38.1)	1 to 5	250

*Order number of cards required in multiples of Std. Pkg. Qty.
 To order 100 cards/roll substitute "-C" for "-TL" in the above part numbers.
 For example PCM36R-TL = 250 cards/roll. PCM36R-C = 100 cards/roll.
 † Print 6 lines of identical information on each individual full size cloth marker.
 Print 3 lines of identical information on each half size cloth marker.

See **page 30** for information on **PROG-LITE** Labeling Software to generate **ON-DEMAND** Marker Cards

DURA-MARK™ PTR2 Thermal Transfer Printer And Accessories



Create a variety of high quality, custom labels

- *It's Quick!* — Custom capability allows labels to be produced in-house, anytime, anywhere.
- Choose from an assortment of colored thermal transfer rolls, self-laminating wire markers, blank labels and heat shrink markers shown on **pages 21-25**.
- Print legends up to 3.5" (89 mm) high.
- Works with most standard PC's and label printing software including Panduit® **PAN-MARK™ 2.X** or higher for **WINDOWS^** Label Printing Software (See **page 28** for complete software information).

Mechanical Information

Print Method: Thermal transfer and direct thermal printing

Size:

Height:	5.3"	(135 mm)
Width:	7.9"	(200 mm)
Depth:	8.9"	(226 mm)
Weight:	4 lbs.	(1.8 kg)

Print Speed: Select constant print speeds of 1", 1.5" or 2" (25.4, 38.1, or 50.8 mm) per second

Media:

Roll Width:	1.1" - 4.6"	(28 mm - 118 mm)
Max. Roll Diameter:	3.8"	(96 mm)
Core Diameter:	1.0"	(25 mm)

Use PTR2-RS Roll Stand for rolls with a core diameter > 1.0" (25 mm)

Memory: 128 Kb Standard

Double Buffer: Contains a double buffer which makes the printer capable of printing continuously from WINDOWS

Sensors: See through sensor designed for die-cut labels

Graphics Resolution: Up to 203 dpi

Print Information

- Fonts can be printed in four directions: 0°, 90°, 180° and 270°
- Capable of reverse print, bar coding and graphics
- Prints up to 32" (813 mm) length x 3.5" (89 mm) high characters
- 4.09" (104 mm) maximum print width
- Capable of horizontal and vertical print

Part Number	Description	Std. Pkg. Qty*
PTR2	Thermal Transfer Printer	1
PTR2-RS	External Label Roll Stand <i>Used to rear feed labels that are not supplied on 1.00" (25.4 mm) cores</i>	1
PTR-CLN	Printer Cleaning Kit Contains 4 oz. (116 ml) bottle cleaning solution with MSDS, cleaning pen, 100 swabs, 12 alcohol wipes and instructions	

*Order number required in multiples of Std. Pkg. Qty.

^WINDOWS is a trademark of Microsoft Corp.

PTR2 Ribbons and Continuous Roll Supplies

Thermal Transfer Ribbons

Part Number	Material	Size Width x Length	Use	Color	Std. Pkg. Qty*
TTR-BL	Resin	4.33" x 280' (110.0 mm x 85.3 m)	Vinyl and Polyester Applications	Black	1
TTR2-BL	Resin	2.50" x 280' (63.5 mm x 85.3 m)		Black	1
TTR-WH	Resin	4.33" x 262' (110.0 mm x 79.8 m)		White	1
TTR2-WH	Resin	2.50" x 262' (63.5 mm x 79.8 m)		White	1
TTRW-BL	Wax	4.33" x 280' (110.0 mm x 85.3 m)	Self-Laminating Labels, Heat Shrink Labels and Paper Labels	Black	1
TTRW2-BL	Wax	2.50" x 280' (63.5 mm x 85.3 m)		Black	1

*Order number of ribbons required in multiples of Std. Pkg. Qty.

Roll Material Selection Guide

Material Type	Temperature Range	Key Feature	Color	Outdoor Rated	Hazardous Environment	UL Rec.	CSA
TTPA Paper	-65° to 160°F (-54° to 71°C)	Standard paper material for general indoor labeling	White	No	No	No	No
TTV Vinyl	-40° to 176°F (-40° to 80°C)	Conformable material for flat applications in indoor or outdoor environments. Can be overlaminated with clear polyester material to increase durability	White Yellow Red Green Blue Orange	Yes, 2 years	No	No	No
TTP Polyester	0° to 275°F (-18° to 135°C)	TTP2-CLR/TTP4-CLR are used to produce markers with a clear background; TTP2-LAM/TTP4-LAM are used as an overlaminate to increase durability of vinyl or paper markers	Clear	Yes, 2 years	No	No	No



2" (50.8 mm) Wide Rolls

Part Number	Description	Roll Width In. (mm)	Roll Length Ft. (m)	Color	Material	Std. Pkg. Qty*
TTP2-CLR	Thermal Transfer Roll	2.00 (50.8)	100 (30.5)	Clear	Polyester	1
TTV2-WHT TTV2-YEL TTV2-RED TTV2-GRN TTV2-BLU TTV2-ORG	Thermal Transfer Roll	2.00 (50.8)	100 (30.5)	White Yellow Red Green Blue Orange	Vinyl	1
TTPA2-WHT	Thermal Transfer Roll	2.00 (50.8)	125 (38.1)	White	Paper	1
TTP2-LAM	Overlaminating Roll	2.25 (57.1)	100 (30.5)	Clear	Polyester Overlaminating	1

Rolls are on 1.00" (25.4 mm) cores

*Order number of rolls required in multiples of Std. Pkg. Qty



4" (101.6 mm) Wide Rolls

Part Number	Description	Roll Width In. (mm)	Roll Length Ft. (m)	Color	Material	Std. Pkg. Qty*
TTP4-CLR	Thermal Transfer Roll	4.00 (101.6)	100 (30.5)	Clear	Polyester	1
TTV4-WHT TTV4-YEL TTV4-RED TTV4-GRN TTV4-BLU TTV4-ORG	Thermal Transfer Roll	4.00 (101.6)	100 (30.5)	White Yellow Red Green Blue Orange	Vinyl	1
TTPA4-WHT	Thermal Transfer Roll	4.00 (101.6)	125 (38.1)	White	Paper	1
TTP4-LAM	Overlaminating Roll	4.25 (108.0)	100 (30.5)	Clear	Polyester Overlaminating	1

Rolls are on 1.00" (25.4 mm) cores

*Order number of rolls required in multiples of Std. Pkg. Qty.



PTR2 Self-Laminating Labels



- Designed to identify all sizes of wires and cables quickly and economically
- Overlaminates protects legends for clear, permanent identification
- Available in a variety of sizes and 9 colors
- Vinyl material for indoor applications and TEDLAR[▲] material for outdoor and high temperature applications
- Labels are on 1.0" (25.4 mm) cores for PTR2 Printer

Choose the material that best suits your application:

Material Code	Material Type	Temperature Range	Key Features	Color	Outdoor Rated	Hazardous Environment	UL Rec.	CSA
GMV3	Self-Laminating Vinyl Film	-40°F to 176°F (-40°C to 80°C)	General purpose vinyl self-laminating labels	Clear w/ White Print-On Area	No	No	Yes	Yes
GMT1	Self-Laminating TEDLAR [▲]	0°F to 275°F (-18°C to 135°C)	Self-extinguishing, outdoor rated material; ideal for wire and cable labeling in harsh environments	Clear w/ White Print-On Area	Yes	Yes	Yes	Yes

Part Number	Total Area Width x Length In. (mm)	Print-On Area Width x Length In. (mm)	Labels Per Row	Nominal Cable O.D. * In. (mm)	Color	Material	Std. Pkg. Qty.*
TTSL-247	0.80 x 0.94 (20.3 x 23.9)	0.80 x 0.38 (20.3 x 9.7)	5	0.12 - 0.18 (3.0 - 4.5)	White	Vinyl	5000
TTSL-246	0.80 x 0.94 (20.3 x 23.9)	0.80 x 0.38 (20.3 x 9.7)	5		White	TEDLAR [▲]	5000
TTSL-249	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.7)	4	0.13 - 0.13 (3.0 - 3.0)	White	Vinyl	2500
TTSL-249YL†	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.7)	4		Yellow†	Vinyl	2500
TTSL-248	1.00 x 0.75 (25.4 x 19.1)	1.00 x 0.38 (25.4 x 9.7)	4	0.12 - 0.19 (3.0 - 4.5)	White	TEDLAR	2500
TTSL-251	1.00 x 0.94 (25.4 x 23.9)	1.00 x 0.38 (25.4 x 9.7)	4		White	Vinyl	2500
TTSL-251YL†	1.00 x 0.94 (25.4 x 23.9)	1.00 x 0.38 (25.4 x 9.7)	4		Yellow†	Vinyl	2500
TTSL-250	1.00 x 0.94 (25.4 x 23.9)	1.00 x 0.38 (25.4 x 9.7)	4		White	TEDLAR	2500
TTSL-1	0.50 x 1.50 (12.7 x 38.1)	0.50 x 0.50 (12.7 x 12.7)	8	0.16 - 0.32 (4.0 - 8.1)	White	Vinyl	5000
TTSL-1YL†	0.50 x 1.50 (12.7 x 38.1)	0.50 x 0.50 (12.7 x 12.7)	8		Yellow†	Vinyl	5000
TTSL-53	0.50 x 1.50 (12.7 x 38.1)	0.50 x 0.50 (12.7 x 12.7)	8		White	TEDLAR	5000
TTSL-2	1.00 x 1.50 (25.4 x 38.1)	1.00 x 0.50 (25.4 x 12.7)	4		White	Vinyl	2500
TTSL-2YL†	1.00 x 1.50 (25.4 x 38.1)	1.00 x 0.50 (25.4 x 12.7)	4		Yellow†	Vinyl	2500
TTSL-54	1.00 x 1.50 (25.4 x 38.1)	1.00 x 0.50 (25.4 x 12.7)	4		White	TEDLAR	2500
TTSL-3	2.00 x 1.50 (50.8 x 38.1)	2.00 x 0.50 (50.8 x 12.7)	2		White	Vinyl	1000
TTSL-3YL†	2.00 x 1.50 (50.8 x 38.1)	2.00 x 0.50 (50.8 x 12.7)	2		Yellow†	Vinyl	1000
TTSL-55	2.00 x 1.50 (50.8 x 38.1)	2.00 x 0.50 (50.8 x 12.7)	2		White	TEDLAR	1000
TTSL-4	1.00 x 2.44 (25.4 x 62.0)	1.00 x 1.00 (25.4 x 25.4)	4		0.32 - 0.46 (8.1 - 11.6)	White	Vinyl
TTSL-4YL†	1.00 x 2.44 (25.4 x 62.0)	1.00 x 1.00 (25.4 x 25.4)	4	Yellow†		Vinyl	1500
TTSL-56	1.00 x 2.44 (25.4 x 62.0)	1.00 x 1.00 (25.4 x 25.4)	4	White		TEDLAR	1500
TTSL-5	2.00 x 2.44 (50.8 x 62.0)	2.00 x 1.00 (50.8 x 25.4)	2	White		Vinyl	500
TTSL-5YL†	2.00 x 2.44 (50.8 x 62.0)	2.00 x 1.00 (50.8 x 25.4)	2	0.32 - 0.93 (8.1 - 23.7)	Yellow†	Vinyl	500
TTSL-57	2.00 x 2.44 (50.8 x 62.0)	2.00 x 1.00 (50.8 x 25.4)	2		White	TEDLAR	500
TTSL-6	1.00 x 3.94 (25.4 x 100.1)	1.00 x 1.00 (25.4 x 25.4)	4	0.32 - 0.93 (8.1 - 23.7)	White	Vinyl	1000
TTSL-6YL†	1.00 x 3.94 (25.4 x 100.1)	1.00 x 1.00 (25.4 x 25.4)	4		Yellow†	Vinyl	1000
TTSL-58	1.00 x 3.94 (25.4 x 100.1)	1.00 x 1.00 (25.4 x 25.4)	4		White	TEDLAR	1000
TTSL-7	2.00 x 3.94 (50.8 x 100.1)	2.00 x 1.00 (50.8 x 25.4)	2		White	Vinyl	500
TTSL-59	2.00 x 3.94 (50.8 x 100.1)	2.00 x 1.00 (50.8 x 25.4)	2	White	TEDLAR	500	

*Order number of labels required in multiples of Std. Pkg. Qty.

†For other TIA colors, substitute the following suffixes: RD=Red, VL=Violet, BR=Brown, GR=Green, IG=Gray, OR=Orange, BU=Blue

▲TEDLAR is a registered trademark of E.I. DuPont Co.

*Refer to Wire Size Selection Guide on [page 196](#) to review diameters of commonly used cables



PTR2 Blank Labels

- Labels are on 3.0" (76.2 mm) cores and must be rear fed from PTR2 External Stand (see [page 20](#))

Choose the material that best suits your application:

Material Code	Material Type	Temperature Range	Key Features	Color	Outdoor Rated	Hazardous Environment	UL Rec.	CSA
GMP4-W	Destructible Paper	-65°F to 160°F (-54°C to 71°C)	Tamper resistant litho paper for permanent applications	White	No	No	No	No
GMPE4-W	Destructible Polyethylene	-40°F to 176°F (-40°C to 80°C)	Destructible adhesive for permanent applications	White	No	No	No	No
GMY4-C	Clear Polyester	-40°F to 302°F (-40°C to 150°C)	Durable; high temperature; does not stretch or easily tear	Clear	Yes	Yes	No	No
GMY4-W	White Polyester	-40°F to 302°F (-40°C to 150°C)	Durable; high temperature; does not stretch or easily tear	White	Yes	Yes	No	No
GMY4-S	Metallized Polyester	-40°F to 302°F (-40°C to 150°C)	Durable; high temperature; does not stretch or easily tear; protects data EPROM by blocking out light	Silver	Yes	Yes	No	No
GMY4-STE	Tamper Evident Polyester	-40°F to 104°F (-40°C to 40°C)	Destructible material; label cannot be completely removed once applied	Silver	Yes	No	No	No
GMT4-W	TEDLAR *	-40°F to 275°F (-40°C to 135°C)	Indoor/outdoor high temperature labels; Self-extinguishing	White	Yes	Yes	No	No

Part Number	Material	Color	Label Width In. (mm)	Label Length In. (mm)	Horizontal Repeat In. (mm)	Vertical Repeat In. (mm)	Labels Per Row	Web Width In. (mm)	Std. Pkg. Qty.*
TTC3YS-10	Polyester	Silver	0.50 (12.7)	0.44 (11.1)	0.66 (16.8)	0.48 (12.1)	5	3.35 (85.1)	10,000
TTC3Y-10	Polyester	White	0.50 (12.7)	0.44 (11.1)	0.66 (16.8)	0.48 (12.1)	5	3.35 (85.1)	10,000
TTC3YST-10	Tamper Evident Polyester	Silver	0.50 (12.7)	0.44 (11.1)	0.66 (16.8)	0.48 (12.1)	5	3.35 (85.1)	10,000
TTC45Y-1	Polyester	White	0.50 (12.7)	0.75 (19.1)	0.50 (12.7)	0.88 (22.2)	8	4.25 (108.0)	1000
TTC-DS110-1	Polyester	White	0.50 (12.7)	7.88 (200.0)	—	8.13 (206.4)	1	1.25 (31.8)	1000
TTC6Y-10	Polyester	White	0.90 (22.9)	0.25 (6.4)	1.13 (28.6)	0.35 (8.9)	3	3.35 (85.1)	10,000
TTC6T-10	TEDLAR *	White	0.90 (22.9)	0.25 (6.4)	1.13 (28.6)	0.35 (8.9)	3	3.35 (85.1)	10,000
TTC7YS-10	Polyester	Silver	1.00 (25.4)	0.38 (9.5)	1.08 (27.3)	0.48 (12.1)	3	3.35 (85.1)	10,000
TTC7Y-10	Polyester	White	1.00 (25.4)	0.38 (9.5)	1.08 (27.3)	0.48 (12.1)	3	3.35 (85.1)	10,000
TTC8ET-10	Destructible Polyethylene	White	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.60 (15.2)	3	3.35 (85.1)	10,000
TTC8YS-10	Polyester	Silver	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.60 (15.2)	3	3.35 (85.1)	10,000
TTC8YC-10	Polyester	Clear	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.63 (15.9)	3	3.35 (85.1)	10,000
TTC8Y-10	Polyester	White	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.60 (15.2)	3	3.35 (85.1)	10,000
TTC8YST-10	Tamper Evident Polyester	Silver	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.60 (15.2)	3	3.35 (85.1)	10,000
TTC8T-10	TEDLAR *	White	1.00 (25.4)	0.50 (12.7)	1.08 (27.3)	0.60 (15.2)	3	3.35 (85.1)	10,000
TTC-MJ-5	Polyester	Clear	1.38 (34.9)	0.19 (4.8)	—	0.38 (9.5)	1	2.25 (57.2)	5000
TTC-MJWH-5	Polyester	White	1.38 (34.9)	0.19 (4.8)	—	0.38 (9.5)	1	2.25 (57.2)	5000
TTC15P-2.5	Paper	White	1.50 (38.1)	1.00 (25.4)	—	1.63 (41.3)	1	1.75 (44.5)	2500
TTC15Y-2.5	Polyester	White	1.50 (38.1)	1.00 (25.4)	—	1.63 (41.3)	1	1.75 (44.5)	2500
TTC17Y-2.5	Polyester	White	1.63 (41.3)	1.25 (31.8)	—	1.38 (34.9)	1	2.20 (55.9)	2500
TTC-EFPLC-1	Polyester	Clear	1.80 (45.7)	0.38 (9.5)	—	0.63 (15.9)	1	2.25 (57.2)	1000
TTC-EFPL-1	Polyester	White	1.80 (45.7)	0.38 (9.5)	—	0.63 (15.9)	1	2.25 (57.2)	1000
TTC18Y-2.5	Polyester	White	2.00 (50.8)	0.25 (6.4)	—	0.38 (9.5)	1	2.20 (55.9)	2500
TTC19Y-2.5	Polyester	White	2.00 (50.8)	0.50 (12.7)	—	0.60 (15.2)	1	2.20 (55.9)	2500
TTC20YS-2.5	Polyester	Silver	2.00 (50.8)	1.00 (25.4)	—	1.13 (28.6)	1	2.20 (55.9)	2500
TTC20P-2.5	Paper	White	2.00 (50.8)	1.00 (25.4)	—	1.13 (28.6)	1	2.20 (55.9)	2500
TTC20YC-2.5	Polyester	Clear	2.00 (50.8)	1.00 (25.4)	—	1.13 (28.6)	1	2.20 (55.9)	2500
TTC20Y-2.5	Polyester	White	2.00 (50.8)	1.00 (25.4)	—	1.13 (28.6)	1	2.20 (55.9)	2500
TTC20YST-2.5	Tamper Evident Polyester	Silver	2.00 (50.8)	1.00 (25.4)	—	1.13 (28.6)	1	2.20 (55.9)	2500
TTC21P-2.5	Paper	White	2.00 (50.8)	1.25 (31.8)	—	1.38 (34.9)	1	2.20 (55.9)	2500
TTC22YS-2.5	Polyester	Silver	2.75 (69.9)	1.25 (31.8)	—	1.38 (34.9)	1	2.95 (74.9)	2500
TTC22P-2.5	Paper	White	2.75 (69.9)	1.25 (31.8)	—	1.38 (34.9)	1	2.95 (74.9)	2500
TTC22Y-2.5	Polyester	White	2.75 (69.9)	1.25 (31.8)	—	1.38 (34.9)	1	2.95 (74.9)	2500

Labels are roll mounted on 3.00" (76.2 mm) core.
 *Order number of labels required in multiples of Std. Pkg. Qty.
 *TEDLAR is the registered trademark of E. I. DuPont Co.

PTR2 Blank Labels (cont.)

Part Number	Material	Color	Label Width In. (mm)	Label Length In. (mm)	Horizontal Repeat In. (mm)	Vertical Repeat In. (mm)	Labels Per Row	Web Width In. (mm)	Std. Pkg. Qty.*
TTC-EFPL10-1	Polyester	White	2.90 (73.7)	0.30 (7.6)	—	0.55 (14.0)	1	3.25 (82.6)	1000
TTC23Y-2.5	Polyester	White	3.00 (76.2)	0.25 (6.4)	—	0.38 (9.5)	1	3.20 (81.3)	2500
TTC46P-5	Paper	White	3.00 (76.2)	0.94 (23.8)	—	1.06 (27.0)	1	3.35 (85.1)	5000
TTC24YS-2.5	Polyester	Silver	3.00 (76.2)	1.00 (25.4)	—	1.13 (28.6)	1	3.20 (81.3)	2500
TTC24P-2.5	Paper	White	3.00 (76.2)	1.00 (25.4)	—	1.13 (28.6)	1	3.20 (81.3)	2500
TTC24YC-2.5	Polyester	Clear	3.00 (76.2)	1.00 (25.4)	—	1.13 (28.6)	1	3.20 (81.3)	2500
TTC24Y-2.5	Polyester	White	3.00 (76.2)	1.00 (25.4)	—	1.13 (28.6)	1	3.20 (81.3)	2500
TTC24YST-2.5	Tamper Evident Polyester	Silver	3.00 (76.2)	1.00 (25.4)	—	1.13 (28.6)	1	3.20 (81.3)	2500
TTC25YS-1	Polyester	Silver	3.00 (76.2)	2.00 (50.8)	—	2.13 (54.0)	1	3.20 (81.3)	1000
TTC25P-1	Paper	White	3.00 (76.2)	2.00 (50.8)	—	2.13 (54.0)	1	3.20 (81.3)	1000
TTC25YC-1	Polyester	Clear	3.00 (76.2)	2.00 (50.8)	—	2.13 (54.0)	1	3.20 (81.3)	1000
TTC25Y-1	Polyester	White	3.00 (76.2)	2.00 (50.8)	—	2.13 (54.0)	1	3.20 (81.3)	1000
TTC25YST-1	Tamper Evident Polyester	Silver	3.00 (76.2)	2.00 (50.8)	—	2.13 (54.0)	1	3.20 (81.3)	1000
TTC26P-1	Paper	White	3.00 (76.2)	5.00 (127.0)	—	5.13 (130.2)	1	3.20 (81.3)	1000
TTC27Y-10	Polyester	White	3.25 (82.6)	0.31 (7.9)	—	0.44 (11.1)	1	4.20 (106.7)	10,000
TTC28Y-10	Polyester	White	3.25 (82.6)	0.50 (12.7)	—	0.63 (15.9)	1	4.20 (106.7)	10,000
TTC29Y-5	Polyester	White	3.25 (82.6)	0.63 (15.9)	—	0.75 (19.1)	1	4.20 (106.7)	5000
TTC30Y-2.5	Polyester	White	3.25 (82.6)	0.81 (20.6)	—	0.94 (23.8)	1	4.20 (106.7)	2500
TTC31P-1	Paper	White	3.50 (88.9)	1.00 (25.4)	—	1.13 (28.6)	1	3.75 (95.3)	1000
TTC31Y-1	Polyester	White	3.50 (88.9)	1.00 (25.4)	—	1.13 (28.6)	1	3.75 (95.3)	1000
TTC32P-1	Paper	White	3.50 (88.9)	8.00 (203.2)	—	8.13 (206.4)	1	3.75 (95.3)	1000
TTC32Y-1	Polyester	White	3.50 (88.9)	8.00 (203.2)	—	8.13 (206.4)	1	3.75 (95.3)	1000
TTC34P-.5	Paper	White	3.63 (92.1)	4.20 (107.1)	—	4.34 (110.3)	1	4.20 (106.7)	500
TTC33P-.5	Paper	White	3.63 (92.1)	5.79 (147.1)	—	5.92 (150.3)	1	4.20 (106.7)	500
TTC35P-2.5	Paper	White	4.00 (101.6)	1.00 (25.4)	—	4.13 (104.8)	1	4.20 (106.7)	2500
TTC35Y-2.5	Polyester	White	4.00 (101.6)	1.00 (25.4)	—	4.13 (104.8)	1	4.20 (106.7)	2500
TTC36YS-1	Polyester	Silver	4.00 (101.6)	2.00 (50.8)	—	2.13 (54.0)	1	4.20 (106.7)	1000
TTC36P-1	Paper	White	4.00 (101.6)	2.00 (50.8)	—	2.13 (54.0)	1	4.20 (106.7)	1000
TTC36Y-1	Polyester	White	4.00 (101.6)	2.00 (50.8)	—	2.13 (54.0)	1	4.20 (106.7)	1000
TTC37P-1	Paper	White	4.00 (101.6)	3.00 (76.2)	—	3.13 (79.4)	1	4.20 (106.7)	1000
TTC37Y-1	Polyester	White	4.00 (101.6)	3.00 (76.2)	—	3.13 (79.4)	1	4.20 (106.7)	1000
TTC38P-1	Paper	White	4.00 (101.6)	4.00 (101.6)	—	4.13 (104.8)	1	4.20 (106.7)	1000
TTC38Y-1	Polyester	White	4.00 (101.6)	4.00 (101.6)	—	4.13 (104.8)	1	4.20 (106.7)	1000
TTC39P-1	Paper	White	4.00 (101.6)	5.00 (127.0)	—	5.13 (130.2)	1	4.20 (106.7)	1000
TTC39Y-1	Polyester	White	4.00 (101.6)	5.00 (127.0)	—	5.13 (130.2)	1	4.20 (106.7)	1000
TTC40P-1	Paper	White	4.00 (101.6)	6.00 (152.4)	—	6.06 (154.0)	1	4.20 (106.7)	1000
TTC41P-1	Paper	White	4.00 (101.6)	6.50 (165.1)	—	6.63 (168.3)	1	4.20 (106.7)	1000
TTC41Y-1	Polyester	White	4.00 (101.6)	6.50 (165.1)	—	6.63 (168.3)	1	4.20 (106.7)	1000
TTC42P-1	Paper	White	4.00 (101.6)	12.88 (327.0)	—	13.00 (330.2)	1	4.20 (106.7)	500
TTC42Y-1	Polyester	White	4.00 (101.6)	12.88 (327.0)	—	13.00 (330.2)	1	4.20 (106.7)	500

Labels are roll mounted on 3.00" (76.2 mm) core.
 *Order number of labels required in multiples of Std. Pkg. Qty.

PTR2 Heat Shrink Wire and Cable Markers and Accessories



Heat Shrink Wire and Cable Markers

- Produce durable, high quality permanent heat shrink markers
- Pre-cut tubing mounted on plastic carrier
- Service Temperature Range: -22°F to 220°F (-30°C to 105°C)
- Shrink Ratio 3:1 @ 212°F (100°C)
- Flammability: Meets U.L. Standard 224 for flammability
- For best results, print with TTRW-BL Wax Ribbon

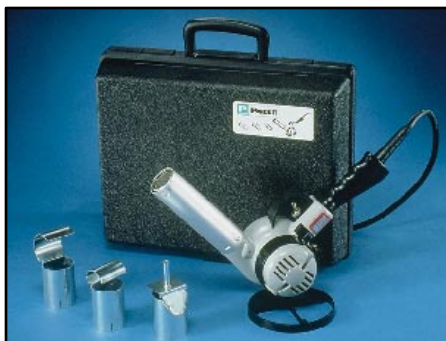
Part Number	Diameter In. (mm)	Marker Width In. (mm)	Markers Per Row	Nominal Cable O.D. In. (mm)	Material	Color	Mkrs Per Roll	Std. Pkg. Qty.*
LHS12W1	0.13 (3.2)	2.00 (50.8)	1	0.04 - 0.13 (1.1 - 3.2)	3:1 Flattened Polyolefin	White	500	1
LHS12W2	0.13 (3.2)	1.00 (25.4)	2				1000	1
LHS12W4	0.13 (3.2)	0.50 (12.7)	4				2000	1
LHS18W1	0.18 (4.8)	2.00 (50.8)	1	0.06 - 0.18 (1.6 - 4.8)			500	1
LHS18W2	0.18 (4.8)	1.00 (25.4)	2				1000	1
LHS18W4	0.18 (4.8)	0.50 (12.7)	4				2000	1
LHS25W1	0.25 (6.4)	2.00 (50.8)	1	0.08 - 0.25 (2.1 - 6.4)			500	1
LHS25W2	0.25 (6.4)	1.00 (25.4)	2				1000	1
LHS25W4	0.25 (6.4)	0.50 (12.7)	4				2000	1
LHS50W1	0.50 (12.7)	2.00 (50.8)	1	0.17 - 0.50 (4.2 - 12.7)			500	1
LHS50W2	0.50 (12.7)	1.00 (25.4)	2				1000	1
LHS100W1	1.00 (25.4)	2.00 (50.8)	1	0.33 - 1.00 (8.4 - 25.4)			250	1
LHS100W2	1.00 (25.4)	1.00 (25.4)	2		500	1		
LHS12Y1	0.13 (3.2)	2.00 (50.8)	1	0.04 - 0.13 (1.1 - 3.2)	3:1 Flattened Polyolefin	Yellow	500	1
LHS12Y2	0.13 (3.2)	1.00 (25.4)	2				1000	1
LHS12Y4	0.13 (3.2)	0.50 (12.7)	4				2000	1
LHS18Y1	0.18 (4.8)	2.00 (50.8)	1	0.06 - 0.18 (1.6 - 4.8)			500	1
LHS18Y2	0.18 (4.8)	1.00 (25.4)	2				1000	1
LHS18Y4	0.18 (4.8)	0.50 (12.7)	4				2000	1
LHS25Y1	0.25 (6.4)	2.00 (50.8)	1	0.08 - 0.25 (2.1 - 6.4)			500	1
LHS25Y2	0.25 (6.4)	1.00 (25.4)	2				1000	1
LHS25Y4	0.25 (6.4)	0.50 (12.7)	4				2000	1
LHS50Y1	0.50 (12.7)	2.00 (50.8)	1	0.17 - 0.50 (4.2 - 12.7)			500	1
LHS50Y2	0.50 (12.7)	1.00 (25.4)	2				1000	1
LHS100Y1	1.00 (25.4)	2.00 (50.8)	1	0.33 - 1.00 (8.4 - 25.4)			250	1
LHS100Y2	1.00 (25.4)	1.00 (25.4)	2		500	1		

*Order number of rolls required in multiples of Std. Pkg. Qty.

*Refer to Wire Size Selection Guide on page 196 to review diameters of commonly used cables

PAN-SHRINK Heat Shrink Tools and Accessories

- For use with all Panduit Heat Shrink Markers
- Other Heat Shrink Tools and replacement parts available. Contact factory for details.



Part Number	Description	Std. Pkg. Qty.*
HSG-115V-500	General Purpose Tool – Air intake regulator varies temperature from 500°F (260°C) to 620°F (344°C), 115 Volt, 11 AMP. Neoprene jacketed cord with molded strain relief	1
HSG-115V-300	Low Temperature Tool – For use on small sizes of heat shrink when under or near heat sensitive items. Air intake regulator varies temperature from 300°F (145°C) to 450°F (232°C), 115 Volt, 8 AMP. Neoprene jacketed cord with molded strain relief	1
HSG-A1	Shrink tube reflector for tubing up to 0.75" (19.1 mm) inside diameter – Directs heat around the tubing to reduce shrink time.	1
HSG-A2	Shrink tube reflector for tubing up to 1.50" (38.1 mm) inside diameter – Directs heat around the tubing to reduce shrink time.	1
HSG-A3	Shrink tube concentrator – Directs heat toward tubing and away from heat sensitive items.	1
HSG-A4	Black polyethylene case – Stores heat tool, stand and all three accessories.	1

*Order number of heat shrink accessories required in multiples of Std. Pkg. Qty.