BRADY®
WHEN PERFORMANCE MATTERS MOST™

Aerospace, Defense Mass Transit and Marine

Complete Labeling Solutions

Expect Performance.
Demand Brady.

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Brady offers you the high-performance solutions you expect for your extreme environments — aircraft, military vehicles, ships, trains and other mass-transit systems. You'll get the total solution. Everything from materials, printers, software, support and more.

aerospace

defense

mass transit

Build Your Complete Solution

Brady identification solutions consist of thermal transfer printers, specialty systems, highly engineered identification materials and label design software. With Brady, it doesn't stop there. We go beyond these components and combine them with expert support, knowledge and service to give you a better identification experience.

Software

Robust Label Design Software

Whether you need to print high volumes of labels or set-up batch printing and printer pairing, Brady Workstation software can improve the efficiency of your label creation process. Developed and tested internally, Brady Workstation is continuously updated with improved features based on user feedback.

- Engineered to take the cost out of label design process
- Adaptable to a range of work flows
- Easily accessible post-sale technical support

Printers

On-Demand Printing and Specialty Systems

From small, hand-held printers for on-the-job applications to large, industrial units for high-volume printing, Brady's proven printing solutions help you create clear, professional-looking identification that has the durability to withstand even the harshest environments.

- Integrates into your processes
- Prints on a range of our expertly engineered materials
- Prints up to 20,000 labels per day
- Easiest and most versatile printing solutions in the industry

Materials

Highly Engineered Materials

Brady's high performance materials offer outstanding performance in extreme environments. Brady gives you a variety of options for your application and work with you to select the best type to meet your needs.

- Heat shrink tubing
- Wire wrap labels
- Component labels
- Fluid line tapes
- Wire, cable and bundle tags

Benchtop Printers Comparison Guide

	BBP®33 Sign & Label Printer	Brady IP™ Printer	Bradyprinter™ i7100 Industrial Label Printer	BBP®72 Double Sided Printer	Wraptor™ A6500 Printer Applicator
Catalog #	BBP33-C	BP-IP300, BP-IP600	149050, 149056, 149045, 149053	BBP72-34L	WRAPTOR-A6500
Description	PC-connect only printer with no calibration set-up, no material waste and 20-second supply changeovers. Revolutionary ease of use makes it ideal for training multiple users and saving wasted time and wasted material cost.	High-performance printing with smart cell supplies allowing printer, materials, and ribbon to communicate making set-up and changeovers significantly faster, easier and less wasteful.	Heavy-duty, high-speed, high-volume printer in 300 dpi and 600 dpi models. Prints on widest selection of specialty and advanced materials, and has the smallest minimum label size.	Specialty high volume printer designed specifically for printing double-sided heat-shrink sleeves in larger quantity print job sizes.	Specialty THT system prints then applies adhesive labels to wires and cables, making labeling faster and easier. Improves production flow and reduces labor costs.
Applications & Other Comments	Low and mid-volume applications when frequent material change-overs are needed. The best solution for inexperienced users wanting easy training and multi-user scenarios. Full ranges of materials for cable and wire ID, facility & safety ID, Product ID & circuit board ID.	Mid-volume applications when frequent material change-overs are needed, and for inexperienced users wanting easy training. Ideal for asset ID, cable and wire ID, circuit board ID, bar coding.	Higher-volume applications, and accommodates thicker and specialty materials. Ideal for ADM users, wire sleeves, wire labels, electronics ID, raised panel material, Nomex tags, and more.	High Volume Permasleeve® Wire Marking Sleeves (Double-sided format only).	Prints & wraps self-laminating and vinyl cloth materials to wires from 0.060" to 0.600 diameter. Prints and wraps under 5 seconds
Typical Throughput & Operational Hours	3000 labels/day 8 hrs/5 days	5000 labels/day 12 hrs/5 days	7000 labels / day 24 hrs / 7 days	7000+ labels /day 24 hrs / 7 days	7000+ labels /day 24 hrs / 7 days
Print Technology & Color Capabilites	Thermal Transfer; Monochrome	Thermal Transfer and Direct Thermal; Monocolor	Thermal Transfer and Direct Thermal; Monocolor	Thermal Transfer; Monochrome	Thermal Transfer; Monochrome
Print Resolution	300 dpi	300 or 600 dpi	300 dpi or 600 dpi	300 dpi	300 dpi
Max Print Width	4.000"	4.160"	4.160"	4.160"	2.000"
Media Widths	0.500" to 4.250"	1"-4.160"	0.157" to 3.35" (continuous sleeves) 0.36" to 4.49" (other materials)	N/A	N/A
Minimum Label Dimension	0.250"	0.250"	0.158" to 4.33"	0.182"	0.250"
Auto Cut-off	Yes	Optional	Optional	No	N/A
PC Connect or Stand Alone	PC Connect only	PC Connect only	PC Connect only	PC Connect only	PC Connect only
Ribbon & Material Installation	**Labels:** Supplied in cartridge, drops into place, 15 sec change **Ribbon:** Supplied in cartridge, snaps into place, 5 sec change	**Labels:** Loose roll, attach to cartridge & drops in **Ribbon:** Loose roll, "thread-thru" required	**Labels:** Loose roll, "thread-thru" required **Ribbon:** Loose roll, "thread-thru" required	**Labels:** Loose roll, "thread-thru" required **Ribbon:** Loose roll, "thread-thru" required	**Labels:** Loose roll, "thread-thru" required **Ribbon:** Loose roll, "thread-thru" required
Calibration Required	No (no wasted material)	Yes	Yes	Yes	Yes
Label Creation & Set-up	Automatic (PC software reads data on chip and automatically sets up label size, color, fonts, etc.)	Semi-automatic (select label part from software and label sets up)	Semi-automatic (select label part from software and label sets up)	Semi-automatic (select label part from software and label sets up)	Semi-automatic (select label part from software and label sets up)
Connectivity Options	Standard: USB, Ethernet Optional: WiFi, Bluetooth	Standard: Serial, Parallel, USB, Ethernet 10/100	Standard: USB, Ethernet 10/100	Standard: USB, Ethernet 10/100	Standard: USB, Ethernet 10/100
Compatible PC Software	Brady Workstation (free download) & Workstation apps, Brady LabelMark™ Software, Windows® based driver for 3rd party software use*	Brady Workstation (free download) & Workstation apps, Brady LabelMark™ Software, Windows® based driver for 3rd party software use*	Brady Workstation (free download) & Workstation apps, Brady LabelMark Software (v6.5.0.9 or higher)	Brady Workstation (free download) & Workstation apps, Brady LabelMark™ Software, Windows® based driver for 3rd party software use*	Brady Workstation (free download) & Workstation apps, Brady LabelMark™ Software
Specialty Material Recommendations	B-593 Raised Panel Material PermaSleeve® PS & HT PermaSleeve® HX Double-Sided PermaSleeve® White Print Ribbon	B-593 Raised Panel Material (with special printer settings) PermaSleeve® PS & HT White Print Ribbon	B-593 Raised Panel Material Nomex® Tags B-330 Polyolefin Heat Shrink Wrap PermaSleeve®ZH PermaSleeve® HX	B-593 Raised Panel Material PermaSleeve® ZH (Double-Sided Format Only) PermaSleeve® HX Double-Sided PermaSleeve®	B-427 Self-Laminating Wire Markers B-472 Polyimide Wire Wrap Material B-499 Nylon Cloth

* Test 3rd party software integration for intended application prior to purchase.
** Performance dependent on label text and size of print run.
Windows® is a registered trademark of Microsoft Corporation.
Nomex® is a registered trademark of DuPont.

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Printing Solutions

Portable Printers Comparison Guide

	BMP®61 Label Printer	BMP®71 Label Printer
Catalog #	BMP61	BMP71
Max Labels Per Day	Average 750 labels/day	Average 1000 labels/day
Print Resolution	300 dpi	300 dpi
Print Technology	Thermal transfer	Thermal Transfer
Print Speed	1.33"/sec (33.8mm/sec)	1.5"/sec (38mm/sec)
Tape Widths	Various sizes from 0.235" to 2.00" (6.4mm to 50.8mm)	Various sizes from 0.235" to 2.00" (6.4 to 50.8 mm)
Max Label Width	2.00" (50.8mm)	2.00" (50.8mm)
Max Print Width	1.92" (48.76 mm)	1.92" (48.76 mm)
Memory	512 MB RAM / 256 MB Flash	200 MB
Materials Supported	BPTL, BPTDS, BPSPT, BPTLTB, PTL, PSHT, PTLEP, PTS, PTLFP, PSPT, PTPSL, PSFR, PTPS, PTLSL, BM71, M61, M61C, BM61C, Custom available	M71-, BM71-, BPTL- Series. 450+ stock parts, plus TLS parts with adaptor
Continuous vs Die Cut	Continuous & die cut labels	Continuous & die cut labels
Connectivity Options	Yes	Yes
PC Connectivity	USB/Wifi	USB
Software Compatibility	Labelmark® Software version 6.0 or higher, Brady Mobile Apps	LabelMark® / CodeSoft™ Software
File Transfer from PC	Yes - w/ Labelmark® Software	Yes - w/ Labelmark® Software
Wireless Connectivity	Yes, Wifi model only	No
Stand Alone Printing	Yes	Yes
Color Capability	Single print color on a label	Single print color on a label
Keyboard	QWERTY, AZERTY, QWERTZ, CYRILLIC	QWERTY, AZERTY, QWERTZ, CYRILLIC
Backlit Screen	2.8", backlit	3.5", backlit
Text Sizes	4 to 174pt + autosizing	4 to 174 pt + autosizing
Multi-Line Print	Yes	Yes
Print Rotation	Yes	Yes
Serialization	Yes, multiple and linked	Yes, multiple and linked
Barcode	39 and 128	39 and 128
Symbols Categories	450	500+
Portability	Yes	Yes
Applications	Basic and Die Cut labels for Wire and Cable ID, Datacomm and A/V labeling, Electrical ID, Panel ID, Product ID, Facility ID, Safety and Maintenance, General ID	Circuit Board Labeling, Data Communications Labeling, Facility, Safety & Maintenance Identification, General & Industrial Labeling, Panel Identification, Security Identification, Wire & Cable Marking, Pipe Marking
Power Supply	Rechargable NiMH battery, AC Power/battery changer	Rechargable NiMH battery, AC Power/battery changer
Weight	3.212 lbs	5.429 lbs (2.47 kg)
Warranty	2 years	2 years
Label Types or Application Functions	PermaSleeves® Heat Shrinking, DuraSleeves, Polypropylene Wire Markers, Polyester (Ultra Aggressive, Permanent Adhesive, High Performance, Metallized, Tamper Evident, Clear, Freezerbondz, Engraved Plate Substitute) High Temp Polyimide, Polypropylene, Vinyl Tag, Polyester Nameplace, Polyethylene Tag, VOID Footprint Polyester, Self-Extinguishing Tedlar, Nylon Cloth, Tamper Evident Vinyl, Tamper Resistant Metallized Vinyl, Tamper Resistant Vinyl, Self-Laminating Vinyl, Respositionable Vinyl Cloth, General Purpose Paper	Polyester (Adhesive, Permanent, Metallized, Clear, Flame Retardant, Ultra Aggressive, & High Performance, Engraved Plate Substitute) Polyethylene Tag, Polyethylene, Block Vinyl, Permasleeve® Heat Shrinking, Polypropylene Tag, Polyimide, Vinyl (Tamper-Evident, Destructible, Repositional, Self Laminating, Indoor/Outdoor) Polyimide, Repositionable Vinyl Cloth, Nylon Cloth, Polypropylene Tape, Phosphorescent, Reflective, Tedlar, ToughWash, ToughWash Metal Detectable

LabelMark™ Label Design Software

Easy, efficient, cost-effective labeling!

Brady's LabelMark™ Label Design Software offers features that make creating labels more efficient.

It's a fast and easy solution system for creating new labels and printing professional, accurate and legible labels.

With built-in templates, wizards, fixed text labels and free form design, LabelMark software simplifies label making.

Free 30-Day Trial:
BradyID.com/Labelmark

Expand the power of LabelMark with this companion software.

Brady Workstation Data Automation

Brady Workstation Data Automation is a companion software to LabelMark software which allows you to easily integrate automated label printing in your workplace and third party systems, while reducing accidental errors, user training and time consuming data entry.

Reduction of Human Error
- The end user can use their current software, so no additional training is required
- No re-typing the data needed on a label. Unmodified data goes from your third party system directly onto your labels.
- Use designated channels (a combination of an incoming file, a template and a printer) to prevent accidental printing errors

The Process
- Use Labelmark to create your own template. All of the features from Labelmark templates are usable on Brady Workstation Data Automation.
- Save your file to a location accessible by the computer running Data Automation.
- Select what template to be used, how the incoming data needs to be placed on the label and which printer to print on.

Brady Workstation Data Automation simplifies label integration.

Digital Information System → **Export to a CSV File** → **Place Data in CSV on the Template** → **Prints the Labels**

Software Solutions

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Brady Workstation Label Creation Apps

The latest in label creation software, Brady Workstation has revolutionized the way you create labels with your Brady printers. Instead of using a CD to install label-making software on your computer, you simply download the Brady Workstation platform to your desktop and then add the label-creation apps you want.

Download A Free Trial
1. Download at **Workstation.BradyID.com**
2. Fill the workstation with the apps you want
3. Save time by quickly designing and printing labels!

Custom Designer App

Design anything you can imagine. Start with a blank canvas and create a label or sign that meets your needs. Add barcodes or QR codes, import data from Excel and more!

Brady Workstation Print Partner Suite

Brady Workstation Print Partner is a companion software to LabelMark software. With Print Partner, you separate the printing task from the design task. Simply create a LabelMark template, share it across your sites and install the template into Print Partner where the actual printing happens. End users will only be able to complete the designated fields to maintain label format consistency across sites.

Reduction of Human Error
- End users cannot accidently change the layout
- End users only complete the required info
- The design is separated from the final label printing

The Process
- Use LabelMark to create your own template.
- Save your file to a location accessible by the computer running Print Partner software
- Open template in Print Partner, fill in entries, print!

Brady Workstation Advanced Import

Advanced Import allows users to import data from sources other than Microsoft Excel, helping to expand the functionality and knowledge of Brady Workstation. It enables a user to import from most third party sources, including delimited text files, MS Access, OLEDB and SQL server clients, and more! It also allows a user to filter and sort the results as desired or even create a custom query.

The Process
- Save time by importing from ANY third party source
- Easy to use data import wizard
- Increased flexibility and control through filters, sorting & edit SQL query

CodeSoft™ Labeling Software

This enterprise-level label design software allows users to design and print custom labels for product identification and tracking. CodeSoft Barcode Software is the professional solution for the most complex barcode labeling projects. CodeSoft excels at integrating with users systems and 3rd party software.

The software provides a range of barcode label design features for any project, from easy label designs to general bar coding. Brady Labeling Software gives you the power to design and print labels with ease and flexibility. Whether you need to print text, barcodes or graphic images, fixed or variable data, user defined or database driven, Brady has the barcode and labeling software to handle all your custom label needs.

Request Demo:
BradyID.com/codesoft

Software Solutions

High Performance Label Materials

Developed In-House, by our Experts

As a leader in wire and component identification, Brady's team of scientists and engineers work to provide you with innovative products of the highest technological quality. Brady's Tobey Research Center material scientists rigorously test all of our products in-house to ensure high performance, industry compliance, durability and reliability.

- Over 200 technologists in laboratory sites around the world
- More than 20 label material patents and growing
- Electro-mechanical, materials and software development teams

Designed to Last. Engineered to Perform
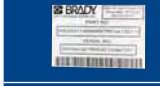
The materials developed by Brady scientists are designed for a wide spectrum of applications and environments. Brady's in-depth knowledge of the conditions that products face requires extensive testing in harsh environments, including:

- Chemical and fuels: Skydrol®, JP-8 Jet Fuel and brake fluids
- Temperatures from -70°C to 225°C
- Zero-halogen and low out-gassing options

Brady's products are not only designed to withstand the harshest of environments, but are also designed with the user in mind. We spend time getting to know our customers in order to understand what you need from our products. That means our heat shrink tubing products are:

- Quick and easy to remove from the carrier — no need to cut or tear the sleeve
- Printed with the part numbers along the carrier for easy identification, even after portions are removed from the roll and shipped to different locations

	Product Name	Description	Temp Range	Specs	Compliance	Rec. Ribbon Series	Printer Compatibility
Heat Shrink Tubing	B-342 PS and 3PS	3:1 ratio heat shrinkable tubing	-67°F to 275°F (-55°C to 135°C)	SAE-AMS-DTL-23053/5C (Class 1) SAE-AS-81531 MIL-STD-202	RoHS UL Recognized	R4300, R6600, R6700 (with black sleeves) Series	BMP®71 BBP®33 i7100 / IP BBP®72
	B-344 2FR and 3FR	3:1 and 2:1 ratio fluid resistant heat shrinkable tubing	-67°F to 275°F (-55°C to 135°C)	SAE-AMS-DTL-23053/6 (Class 1) SAE-AS-81531 MIL-STD-202G	RoHS	R6600, and R6700 (with black sleeves) Series	BMP®71 BBP®33 i7100 BBP®72
	B-345 3HT and 2HT	2:1 ratio low outgassing high temperature heat shrinkable tubing	-55°C to 225°C (-67°F to 437°F)	NASA SP-R-0022A Outgassing SAE-AS-81531 MIL-STD-202	RoHS	R6000, R6600, and R6800 (with black sleeves) Series	BMP®71 BBP®33 i7100 / IP BBP®72
	B-7641 LSZH, 2LSZH	2:1 ratio low smoke, zero halogen heat shrinkable tubing	-22°F to 221°F (-30°C to 105°C)	SAE-AS-81531 MIL-STD-202	RoHS	R4300 R6000 R6600	i7100 BBP®72
	B-7642 HX and 2HX	2:1 ratio heat shrinkable tubing	-40°F to 248°F (-40°C to 120°C)	SAE-AMS-DTL-23053/5 Class 1 & 3 SAE-AS-81531 MIL-STD-202	RoHS	R4300, R6400, R6600, 356126 Series	BBP®33 i7100 BBP®72
	B-7646 DR and 3DR	3:1 ratio diesel resistant heat shrinkable tubing	-55°C to 135°C (-48°C to 57°C)	SAE-AS-81531 MIL-STD-202 method 215k NF F 00-608 Type A and H	RoHS	R6600	i7100 BBP®72
Wire Wrap Labels	B-427	Self-laminating & self-extinguishing wire wrap label	-40°C (-40°F) to +70°C (158°F)	-	RoHS UL Recognized	R4300 R4500	BMP®71 BBP®33 i7100 / IP WRAPTOR™
	B-642	Teldar® self-extinguishing, self-laminating wire wrap	-70°C (-94°F) to +120°C (248°F)	-	RoHS	R4300 R6200	BMP®71 i7100 WRAPTOR™
	B-472	Matte finish self-extinguishing wire-wrap label	-70°C (-94°F) to +135°C (275°F)	AS81531, MIL-STD-202, Method 215k	RoHS	R4300 R6200	i7100 / IP WRAPTOR™
	B-437	Tedlar® self extinguishing wire wrap label	-70°C (-94°F) to +135°C (275°F)	MIL-M-87958	RoHs	R4300 R6200	BMP®71 i7100 / IP
	B-498	Vinyl-cloth repositionable wire wrap label	-40°C (-40°F) to + 80°C (176°F)	-	RoHS UL Recognized	R6200	BMP®71 BBP®33 i7100 / IP
	B-499	Nylon cloth wire-wrap label	-40°C (-40°F) to + 90°C (194°F)	DIN VDE 0472 part 815	RoHS UL Recognized CSA	R4300 R4900 R6000 R6200	BMP®71 BBP®33 i7100 / IP WRAPTOR™
	B-330	Wire bundle and large conduit heat shrintable wrap material	-70°C (-94°F) to +110°C (230°F)	MIL-STD-202, Method 215K, SAE-AS-81531	-	R4300 R6200	i7100
Flat Component Labels	B-423	Glossy polyester flat-surface label	-70°C (-94°F) to +110°C (230°F)	DIN VDE 0472 part 815	RoHS UL Recognized CSA	R6000 R4400	BMP®71 BBP®33 i7100 / IP
	B-483	Glossy-polyester for rough surfaces	-40°C (-40°F) to +120°C (248°F)	-	RoHS UL Recognized CSA	R6000 R4400 R4900	BMP®71 BBP®33 i7100 / IP
	B-593	Raised profile label	-20°C (-4°F) to +100°C (212°F)	-	UL Recognized, cUL Recognized, RoHS	R6000 R4400	BMP®71 BBP®33 i7100 / IP
Fluid Line Tapes	B-992	Glossy self-laminating fluid line tape	-40°C (-40°F) to +150°C (302°F)	LMA-MF099 LMA-MF092B LMA-MF093C LMA-MF094C FMS-3099A	-	R6000	i7100
	B-999	Heat-activated fluid line tape	-65°C (-85°F) to +110°C (230°F)	Boeing BPS-T-151	-	R4900 R7961	i7100 WRAPTOR™
Tag Materials	B-508	Nomex® low outgassing cable and harness marking tag	-70°C (-94°F) to +130°C (266°F)	SAE-AS-81531, MIL-STD-202, Method 215K	RoHS	R4300	i7100

B-342 PermaSleeve® PS Polyolefin Wire Marking Sleeves

B-342 PermaSleeve® PS Polyolefin Wire Marking Sleeves are a 3:1 heat shrinkable wire marking sleeve that fits snugly around wires for identification and protection and are both fade-resistant and flame retardant.

Meets Specs:
SAE-AMS-DTL-23053/5C (Class 1)
SAE-AS-81531   RoHS Compliant
MIL-STD-202   UL Recognized

Tested per:
ASTM E162
ASTM E662

Temp Range:
-67°F to 275°F (-55°C to 135°C)

3:1 **Shrink Ratio:** 3:1

Roll Splice Color: Blue

Sleeve Colors:

White	Yellow	Red	Pink
Orange	Blue	Green	Violet
Brown	Gray	Black	

Create your own PS PermaSleeve:

Follow these steps to create the B-342 PermaSleeve® PS Wire Marking Sleeve part number that meets your needs.

Example catalog number:

3PS - 187 - 2 - WT - S - 4
Product Diameter Width Color Roll Qty Pieces
Optional

Create your own:

___ - ___ - ___ - ___ - ___ - ___
Product Diameter Width Color Roll Qty Pieces
Optional

Recommended Printing Solution

Printer Series:
Bradyprinter™ i7100 Industrial Label Printer, Brady IP™ Printer BBP®72 Double Sided Printer

Ribbon Series:
R4300, R6600, R6700 (with black sleeves) Series

Software:
Brady Workstation Software

STEP 1: Product Type	PS	=	Single Sided Printing	
	3PS	=	Double Sided Printing	

STEP 2: Diameter	094	=	3/32"	0.023" - 0.080" dia.	28 to 20 gauge
	125	=	1/8"	0.046" - 0.110" dia.	22 to 16 gauge
	187	=	3/16"	0.062" - 0.150" dia.	20 to 10 gauge
	250	=	1/4"	0.094" - 0.215" dia.	16 to 8 gauge
	375	=	3/8"	0.125" - 0.320" dia.	12 to 4 gauge
	500	=	1/2"	0.187" - 0.450" dia.	8 to 1 gauge
	750	=	3/4"	0.250" - 0.700" dia.	6 to 4/0 gauge
	1000	=	1"	0.333" - 0.950" dia.	2 to 0.950" dia.
	1500	=	1-1/2"	0.500" - 1.400" dia.	n/a

STEP 3: Sleeve Width	150	=	1-1⁄2" sleeve width
	2	=	2" sleeve width

STEP 4: Color

Standard Colors		Special Order Colors		
WT = White		BL = Blue	OR = Orange	PK = Pink
YL = Yellow		GR = Green	GY = Gray	RD = Red
		BK = Black	BR = Brown	VT = Violet

STEP 5: Roll Qty. (optional)

For standard quantity, leave blank. For small qty, enter "S".		
If sleeve diameter is 094–250	Standard = 2,500	Small (S) = 500
If sleeve diameter is 375	Standard = 1,000	Small (S) = 250
If sleeve diameter is 500	Standard = 500	Small (S) = 250
If sleeve diameter is 750–1500	Standard = 250	Small (S) = 100

STEP 6: Pieces Per Sleeve (optional)

1 marker per sleeve is standard,
if desired, the sleeve can be split into multiple pieces.

2	=	Sleeve is slit to create 2 pieces
3	=	Sleeve is slit to create 3 pieces
4	=	Sleeve is slit to create 4 pieces

Example: "3" slit

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For full material specs, visit BradyID.com/techdata and search by the B-Number.

Label Materials

B-344 PermaSleeve® FR Fluid Resistant Wire Marking Sleeves

B-344 PermaSleeve® Fluid Resistant Wire Marking Sleeves are a 3:1 heat shrinkable wire marking sleeve that fits snugly around wires for identification and protection and offer greater resistance to harsh chemicals such as fuels, lubricants and cleaning solvents.

Meets Specs:
SAE-AMS-DTL-23053/6 (Class 1)
SAE-AS-81531
MIL-STD-202G

Tested per:
ASTM E162
ASTM E662

Temp Range:
-67°F to 275°F (-55°C to 135°C)

3:1

Shrink Ratio:
3:1 for 1" dia only
2:1 for 1-1/5" dia. only

Roll Splice Color: Green

Sleeve Colors:

White	Yellow	Red	Pink
Orange	Blue	Green	Violet
Brown	Gray	Black	

Create your own FR PermaSleeve:

Follow these steps to create the B-344 PermaSleeve® FR Wire Marking Sleeve part number that meets your needs.

Example catalog number:

3FR - 187 - 2 - WT - S - 2
Product — Diameter — Width — Color — Roll Qty — Pieces
Optional

Create your own:

___ - ___ - ___ - ___ - ___ - ___
Product — Diameter — Width — Color — Roll Qty — Pieces
Optional

Recommended Printing Solution

Printer Series:
Bradyprinter™ i7100 Industrial Label Printer, BBP®72 Double Sided Printer

Ribbon Series:
R6600, R6700 (with black sleeves) Series

Software:
Brady Workstation Software

STEP 1: Product Type			
3FR	=	3:1 shrink ratio for 094 - 1000 dia. only	
2FR	=	2:1 shrink ratio for 1500 dia. only	

STEP 2: Diameter				
094	=	3/32"	0.023" - 0.080" dia.	28 to 20 gauge
125	=	1/8"	0.046" - 0.110" dia.	22 to 16 gauge
187	=	3/16"	0.062" - 0.150" dia.	20 to 10 gauge
250	=	1/4"	0.094" - 0.215" dia.	16 to 8 gauge
375	=	3/8"	0.125" - 0.320" dia.	12 to 4 gauge
500	=	1/2"	0.187" - 0.450" dia.	8 to 1 gauge
750	=	3/4"	0.250" - 0.700" dia.	6 to 4/0 gauge
1000	=	1"	0.333" - 0.950" dia.	2 to 0.950" dia.
1500	=	1-1/2"	0.750" - 1.400" dia.	n/a

STEP 3: Sleeve Width		
2	=	2" sleeve width

STEP 4: Color	Standard Colors	Special Order Colors		
	WT = White	**BL** = Blue	**OR** = Orange	**PK** = Pink
	YL = Yellow	**GR** = Green	**GY** = Gray	**RD** = Red
		BK = Black	**BR** = Brown	**VT** = Violet

STEP 5: Roll Qty. (optional)			
For standard quantity, leave blank. For small qty, enter "S".			
If sleeve diameter is 094–250	Standard = 2,500	Small (S) = 500	
If sleeve diameter is 375	Standard = 1,000	Small (S) = 250	
If sleeve diameter is 500	Standard = 500	Small (S) = 250	
If sleeve diameter is 750–1500	Standard = 250	Small (S) = 100	

STEP 6: Pieces Per Sleeve (optional)		
1 marker per sleeve is standard, if desired, the sleeve can be split into multiple pieces.		
2	=	Sleeve is slit to create 2 pieces

Example: "2" slit

B-345 PermaSleeve® HT High Temperature PVDF Wire Marking Sleeves

B-345 PermaSleeve® HT High Temperature PVDF Wire Marking Sleeves are a 2:1 ratio (for 1/8"–1-1/2" diameters) and 3:1 ratio (for 3/32" diameter) heat shrinkable wire marking sleeve specifically designed for high temperature and low vacuum outgassing applications. These heat shrinkable wire marking sleeves are made from irradiated high temperature PVDF.

Meets Specs: SAE-AS-81531
NASA SP-R-0022A   MIL-STD-202
Outgassing   RoHS Compliant

Tested per:
ASTM E162
ASTM E662
SAE-AMS-DTL-23053/18, Class 2

Temp Range:
-67°F to 437°F (-55°C to 225°C)

3:1

Shrink Ratio:
3:1 for 3/32" dia only
2:1 for 1/8" to 1-1/2" dia. only

Roll Splice Color: Yellow

Sleeve Colors:

White	Yellow	Pink
Blue	Black	
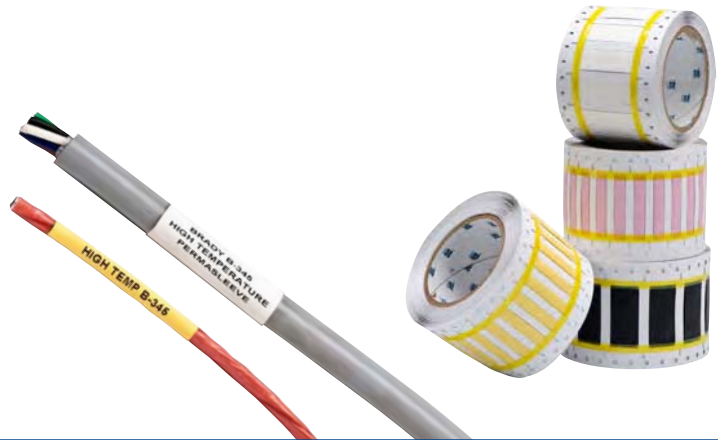
Create your own HT PermaSleeve:

Follow these steps to create the B-345 PermaSleeve® HT Wire Marking Sleeve part number that meets your needs.

Example catalog number:

2HT - 187 - 2 - WT - S - 4
Product Diameter Width Color Roll Qty Pieces
Optional

Create your own:

____ - ____ - ___ - ___ - __ - __
Product Diameter Width Color Roll Qty Pieces
Optional

Recommended Printing Solution

Printer Series:
Bradyprinter™ i7100 Industrial Label Printer, Brady IP™ Printer BBP®72 Double Sided Printer

Ribbon Series:
R6000, R6600, and R6800 (with black sleeves) Series

Software:
Brady Workstation Software

STEP 1: Product Type		
3HT	=	3:1 Ratio, 094 Dia. Size Only, Double Sided Printing
2HT	=	2:1 Ratio, 125–1500 Dia. Sizes Only, Double Sided Printing

STEP 2: Diameter				
094	=	3/32"	0.031" - 0.080" dia.	26 to 20 gauge
125	=	1/8"	0.063" - 0.110" dia.	20 to 16 gauge
187	=	3/16"	0.094" - 0.150" dia.	16 to 10 gauge
250	=	1/4"	0.125" - 0.215" dia.	12 to 8 gauge
375	=	3/8"	0.187" - 0.320" dia.	8 to 4 gauge
500	=	1/2"	0.250" - 0.450" dia.	6 to 1 gauge
750	=	3/4"	0.375" - 0.700" dia.	2 to 4/0 gauge
1000	=	1"	0.450" - 0.950" dia.	2/0 to 0.950" dia.
1500	=	1-1/2"	0.750" - 1.400" dia.	n/a

STEP 3: Sleeve Width		
2	=	2" sleeve width

STEP 4: Color	Standard Colors	Special Order Colors
	WT = White	**YL** = Yellow **PK** = Pink
		BL = Blue **BK** = Black

STEP 5: Roll Qty. (optional)	Standard is small size, please enter "S".	
	If sleeve diameter is 094–250	Standard Small (S) = 500
	If sleeve diameter is 375–500	Standard Small (S) = 250
	If sleeve diameter is 750–1500	Standard Small (S) = 100

STEP 6: Pieces Per Sleeve (optional)	1 marker per sleeve is standard, if desired, the sleeve can be split into multiple pieces.	
	2 = Sleeve is slit to create 2 pieces	
	3 = Sleeve is slit to create 3 pieces	
	4 = Sleeve is slit to create 4 pieces	*Example: "3" slit*

BRADY WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.
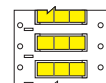
B-7641 PermaSleeve® LSZH Low Smoke Zero Halogen Polyolefin Wire Marking Sleeves

B-7641 PermaSleeve® LSZH Low Smoke Zero Halogen Polyolefin Wire Marking Sleeves are 2:1 heat shrinkable, low smoke, zero halogen wire marking sleeves. The wire marking sleeves offer outstanding fire safety properties and minimal smoke emission.

Meets Specs:
SAE-AS-81531
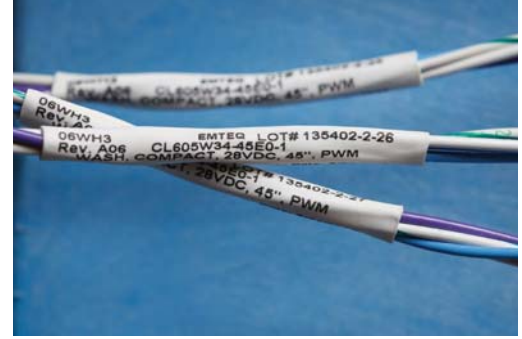MIL-STD-202
RoHS Compliant

Tested per:
ASTM E162
ASTM E662

Temp Range:
-22°F to 221°F (-30°C to 105°C)

2:1 Shrink Ratio: 2:1

Roll Splice Color: Clear

Sleeve Colors:

White	Yellow	Red
Orange	Blue	Green
Violet	Gray	Black

Create your own LSZH PermaSleeve:

Follow these steps to create the B-7641 PermaSleeve® LSZH Wire Marking Sleeve part number that meets your needs.

Example catalog number:

2LSZH - 187 - 2 - WT - S - 4
Product — Diameter — Width — Color — Roll Size — Pieces
Optional

Create your own:

____ - ____ - ____ - ____ - ____ - ____
Product — Diameter — Width — Color — Roll Size — Pieces
Optional

Recommended Printing Solution

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer, BBP®72 Double Sided Printer

Ribbon Series:
R4300, R6400, R6600, 356126 Series

Software:
Brady Workstation Software

STEP 1: Product Type		
LSZH	=	Single Sided Printing
2LSZH	=	Double Sided Printing

STEP 2: Diameter			
094	= 3/32"	0.047" - 0.080" dia.	24 to 20 gauge
125	= 1/8"	0.062" - 0.110" dia.	20 to 16 gauge
187	= 3/16"	0.094" - 0.151" dia.	16 to 10 gauge
250	= 1/4"	0.125" - 0.215" dia.	12 to 8 gauge
375	= 3/8"	0.188" - 0.320" dia.	8 to 4 gauge
500	= 1/2"	0.250" - 0.450" dia.	6 to 1 gauge
750	= 3/4"	0.375" - 0.700" dia.	2 to 4/0 gauge
1000	= 1"	0.450" - 0.950" dia.	2/0 to 0.950" dia.
1500	= 1-1/2"	0.750" - 1.400" dia.	n/a
2000	= 2"	1.000" - 1.900" dia.	n/a

STEP 3: Sleeve Width		
150	=	1-1⁄2" sleeve width
2	=	2" sleeve width
3	=	3" sleeve width *(only available in 1000, 1500, & 2000 dia. parts)*

STEP 4: Color

Standard Colors	Special Order Colors		
WT = White	**BL** = Blue	**OR** = Orange	**RD** = Red
YL = Yellow	**GR** = Green	**GY** = Gray	**VT** = Violet

STEP 5: Roll Size (optional)

For standard quantity, leave blank. For small qty, enter "S".

If sleeve diameter is 094–187	Standard = 2,500	Small (S) = 500
If sleeve diameter is 250-375	Standard = 1,000	Small (S) = 250
If sleeve diameter is 500	Standard = 500	Small (S) = 250
If sleeve diameter is 750–1500	Standard = 250	Small (S) = 100
If sleeve diameter is 2000	Standard = 100	Small (S) = 50

STEP 6: Pieces Per Sleeve (optional)

1 marker per sleeve is standard, if desired, the sleeve can be split into multiple pieces.

2	=	Sleeve is slit to create 2 pieces
3	=	Sleeve is slit to create 3 pieces
4	=	Sleeve is slit to create 4 pieces

Example: "3" slit
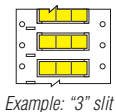
B-7642 PermaSleeve® HX Polyolefin Wire Marking Sleeves

B-7642 PermaSleeve® HX Polyolefin Wire Marking Sleeves are 2:1 heat shrinkable. The sleeves are high-temperature rated, highly flame retardant, and very flexible.

Meets Specs:
SAE-AMS-DTL-23053/5 Class 1 & 3
SAE-AS-81531
MIL-STD-202
RoHS Compliant

Tested per:
ASTM E162
ASTM E662

Temp Range:
-40°F to 248°F (-38°C to 120°C)

2:1 Shrink Ratio: 2:1

Roll Splice Color: Red

Sleeve Colors:

White	Yellow	Red	Orange	
Blue	Green	Violet	Gray	Black

Create your own HX PermaSleeve:

Follow these steps to create the B-7642 PermaSleeve® HX Wire Marking Sleeve part number that meets your needs.

Example catalog number:

2HX - 187 - 2 - WT - S - 4
Product | Diameter | Width | Color | Roll Size | Pieces
Optional

Create your own:

____ - ____ - ___ - ___ - __ - __
Product | Diameter | Width | Color | Roll Size | Pieces
Optional

Recommended Printing Solution

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer, BBP®72 Double Sided Printer

Ribbon Series:
R4300, R6400, R6600, 356126 Series

Software:
Brady Workstation Software
CodeSoft™ Software

STEP 1: Product Type

HX	=	Single Sided Printing
2HX	=	Double Sided Printing

STEP 2: Diameter

094	=	3/32"	0.047" - 0.080" dia.	24 to 20 gauge
125	=	1/8"	0.062" - 0.110" dia.	20 to 16 gauge
187	=	3/16"	0.094" - 0.151" dia.	16 to 10 gauge
250	=	1/4"	0.125" - 0.215" dia.	12 to 8 gauge
375	=	3/8"	0.188" - 0.320" dia.	8 to 4 gauge
500	=	1/2"	0.250" - 0.450" dia.	6 to 1 gauge
750	=	3/4"	0.375" - 0.700" dia.	2 to 4/0 gauge
1000	=	1"	0.450" - 0.950" dia.	2/0 to 0.950" dia.
1500	=	1-1/2"	0.750" - 1.400" dia.	n/a
2000	=	2"	1.000" - 1.900" dia.	n/a

STEP 3: Sleeve Width

150	=	1-1⁄2" sleeve width
2	=	2" sleeve width
3	=	3" sleeve width *(only available in 1000, 1500, & 2000 dia. parts)*

STEP 4: Color

Standard Colors
WT = White

Special Order Colors

YL = Yellow	**BL** = Blue	**OR** = Orange	**GY** = Gray
BK = Black	**GR** = Green	**RD** = Red	**VT** = Violet

STEP 5: Roll Size (optional)

For standard quantity, leave blank. For small qty, enter "S". For jumbo qty, enter "J".

If sleeve dia. is 094–187	Standard = 2,500	Small (S) = 500	Jumbo (J) = 10,000
If sleeve dia. is 250	Standard = 1,000	Small (S) = 250	Jumbo (J) = 7,500
If sleeve dia. is 375	Standard = 1,000	Small (S) = 250	Jumbo (J) = 2,500
If sleeve dia. is 500	Standard = 500	Small (S) = 250	Jumbo (J) = 2,500
If sleeve dia. is 750-1000	Standard = 250	Small (S) = 100	Jumbo (J) = 2,500
If sleeve dia. is 1500	Standard = 250	Small (S) = 100	Jumbo (J) = 1,000
If sleeve dia. is 2000	Standard = 100	Small (S) = 50	Jumbo (J) = 1,000

STEP 6: Pieces Per Sleeve (optional)

1 marker per sleeve is standard, if desired, the sleeve can be split into multiple pieces.

2	=	Sleeve is slit to create 2 pieces
3	=	Sleeve is slit to create 3 pieces
4	=	Sleeve is slit to create 4 pieces

Example: "3" slit

BRADY® WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.

B-7646 PermaSleeve® DR Diesel Resistant Polyolefin Wire Marking Sleeves

Brady's B-7646 diesel resistant wire marking sleeves are a yellow, 3:1 ratio heat shrinkable wire marking sleeves. These thermal transfer printable sleeves feature a double-sided format.

B-7646 PermaSleeves have been developed for wire and cable identification in applications that have exposures to organic fluids, common fuels, lubricants and solvents for extended periods of time and at high temperatures.

Meets Specs:
SAE-AS-81531
MIL-STD-202 method 215k
NF F 00-608 Type A and H

Tested per:
ASTM E162
ASTM E662

Temp Range:
-67°F to 275°F (-55°C to 135°C)

2:1 **Shrink Ratio:** 2:1

Roll Splice Color: Clear

Sleeve Colors:
Yellow

Create your own DR PermaSleeve:

Follow these steps to create the B-7646 PermaSleeve® DR Wire Marking Sleeve part number that meets your needs.

Example catalog number:

DR - 125 - 2 - YL - 4
Product | Diameter | Width | Color | **Pieces Optional**

Create your own:

____ - ____ - ___ - ___ - ___
Product | Diameter | Width | Color | **Pieces Optional**

Recommended Printing Solution

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer, BBP®72 Double Sided Printer

Ribbon Series:
R6600 Series

Software:
Brady Workstation Software

STEP 1: Product Type	DR	=	Double Sided Printing	

STEP 2: Diameter				
	125	= 1/8"	0.062" - 0.110" dia.	20 to 16 gauge
	187	= 3/16"	0.094" - 0.151" dia.	16 to 10 gauge
	250	= 1/4"	0.125" - 0.215" dia.	12 to 8 gauge
	375	= 3/8"	0.188" - 0.320" dia.	8 to 4 gauge
	500	= 1/2"	0.250" - 0.450" dia.	6 to 1 gauge

STEP 3: Sleeve Width	2	= 2" sleeve width

STEP 4: Color	Standard Color
	YL = Yellow

STEP 5: Roll Size	Only available in standard quantity, leave blank.	
	If sleeve diameter is 125–250	Standard = 2,500
	If sleeve diameter is 375	Standard = 1,000
	If sleeve diameter is 500	Standard = 500

STEP 6: Pieces Per Sleeve (optional)	1 marker per sleeve is standard, if desired, the sleeve can be split into multiple pieces.	
	2	= Sleeve is slit to create 2 pieces
	3	= Sleeve is slit to create 3 pieces
	4	= Sleeve is slit to create 4 pieces

Example: "3" slit

Label Materials

BBP®33 PermaSleeve Wire Markers:

Follow these steps to create the BBP®33 printer permasleeve part number that meets your needs.

Example catalog number:

B33 - 125 - 2 - 342YL - 2
Product | Diameter | Width | Material/Color | Pieces Optional

Create your own:

____ - ____ - ___ - _____ - ___
Product | Diameter | Width | Material/Color | Pieces Optional

| STEP 1: Product Type | B33 | = | BBP33 Single Sided Printing | |
| | B33D | = | BBP33 Double Sided Printing | |

STEP 2: Diameter				
	094	= 3/32"	0.047" - 0.080" dia.	24 to 20 gauge
	125	= 1/8"	0.062" - 0.110" dia.	20 to 16 gauge
	187	= 3/16"	0.094" - 0.151" dia.	16 to 10 gauge
	250	= 1/4"	0.125" - 0.215" dia.	12 to 8 gauge
	375	= 3/8"	0.188" - 0.320" dia.	8 to 4 gauge
	500	= 1/2"	0.250" - 0.450" dia.	6 to 1 gauge
	750	= 3/4"	0.375" - 0.700" dia.	2 to 4/0 gauge
	1000	= 1"	0.450" - 0.950" dia.	2/0 to 0.950" dia.
	1500	= 1-1/2"	0.750" - 1.400" dia.	n/a

STEP 3: Sleeve Width	2	=	2" sleeve width

STEP 4: Color	*For standard white, leave blank.*
	For other colors insert abbreviation below.
	If material is 342 Also available in YL=Yellow and BK=black
	If material is 344 Also available in YL=Yellow and BK=black
	If material is 345 Also available in BK=black
	If material is 7642 Only available as white.

STEP 5: Material	342	=	B-342 PS
	344	=	B-344 FR Fluid Resistant
	345	=	B-345 HT Hight Temperature
	7642	=	B-7642 HX

STEP 6: Pieces Per Sleeve (optional)	*1 marker per sleeve is standard, if desired, the sleeve can be split into two pieces.*
	2 = Sleeve is slit to create 2 pieces

* Not all combinations available as stock. Contact Brady for custom orders.

BMP®71 PermaSleeve Wire Markers:

Follow these steps to create the BMP®71 printer permasleeve part number that meets your needs.

Example catalog number:

M71 - 125 - 1 - 342YL
Product | Diameter | Width | Material/Color

Create your own:

____ - ____ - ___ - _____
Product | Diameter | Width | Material/Color

STEP 1: Product Type	M71	=	BMP71 Single Sided Printing
	BM71	=	BMP71 Single Sided Printing Bulk Roll
	BM71C	=	BMP71 Single Sided Printing Bulk Continuous Roll

STEP 2: Diameter				
	094	= 3/32"	0.047" - 0.080" dia.	24 to 20 gauge
	125	= 1/8"	0.062" - 0.110" dia.	20 to 16 gauge
	187	= 3/16"	0.094" - 0.151" dia.	16 to 10 gauge
	250	= 1/4"	0.125" - 0.215" dia.	12 to 8 gauge
	375	= 3/8"	0.188" - 0.320" dia.	8 to 4 gauge
	500	= 1/2"	0.250" - 0.450" dia.	6 to 1 gauge
	1000	= 1"	0.450" - 0.950" dia.	2/0 to 0.950" dia.

STEP 3: Sleeve Width	1	=	1" sleeve width
	175	=	1.75" sleeve width
	(blank)	=	BM71C continuous roll

STEP 4: Color	*For standard white, leave blank.*
	Also available in YL=Yellow and BK=black

STEP 5: Material	342	=	B-342 PS
	344	=	B-344 FR Fluid Resistant

* Not all combinations available as stock. Contact Brady for custom orders.

BRADY® WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.

B-427 Self-Laminating Vinyl Material

Brady's most popular wire and cable marker. Self-laminating vinyl features white printable area with a clear "tail" that wraps around marker. Tail serves as overlaminate to protect the print. Superior resistance to abrasion, solvents, water, oil and dirt.

Meets Specs:
UL Recognized
RoHS Compliant
* with approved ribbons and surfaces

Temp Range:
-40°F to 158°F (-40°C to 70°C)
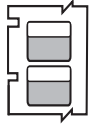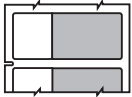
Fits Wire Diameters:
0.079" (2.02 mm) and up

Available Colors:

White	Yellow	Red
Blue	Green	Violet

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
Wraptor™ A6500 Printer Applicator
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R4300 Series
R4500 Color Series

B-642 Self-Laminating Vinyl Material

B-642 Wire Wraps are self-extinguishing and self-laminating with good solvent and heat resistance. This material is a thin tape with excellent flexibility for wrapping on small diameter wires. Features a white printable area with a "clear" tail that wraps over printed legend. This material is intended for cable and wire bundle applications where self-extinguishing properties are required.

Meets Specs:
RoHS Compliant
* with approved ribbons and surfaces

Temp Range:
-94°F to 248°F (-70°C to 120°C)

Fits Wire Diameters:
0.159" (4.04 mm) and up

Available Colors:

White

Tested per:
ASTM G155, Cycle 1
ASTM B117

Printer Compatibility:
Wraptor™ A6500 Printer Applicator
BMP®71 Printer

Ribbon Compatibility:
R4300 Series
R4500 Color Series

* Material is also dot matrix printable on a variety of dot matrix printers using R2000 and R5000 dot matrix ribbons.

Label Materials

? Finding the correct label height for your Self Laminating labels

If you know your wire diameter or wire circumference, you can easily determine the correct label height by using the formula below.
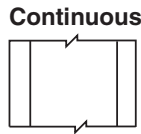
Step 1: Wire Diameter
x 3.14 (pi)
= Wire Circumference

Step 2: Wire Circumference
x 1.5 (allowing label to wrap 1.5 times around wire)
= Total Label Length

B-472 Self-Extinguishing Wire Wrap Label

B-472 Polymide Wire Wraps are highly flame-retardant and specifically designed for wire and cable identification applications where self-extinguishing and flame retardant properties are an absolute requirement. In addition, B-472 can also be used for component labeling and Unique Identification (UID) labeling.

Die-Cut   **Continuous**

Meets Specs:
RoHS Compliant
SAE-AS-81531
MIL-STD-202 method 215k
* with approved ribbons and surfaces

Temp Range:
-94°F to 275°F (-70°C to 135°C)

Fits Wire Diameters:
0.063" (1.61 mm) and up

Available Colors:

White	Yellow

Tested per:
ASTMD 1000 (Flammability)
ASTM E162 (Flame Spread)
ASTM E662 (Flame Emission)

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
Wraptor™ A6500 Printer Applicator
BMP®71 Printer

Ribbon Compatibility:
R4300 Series
R6200 High Performance Series
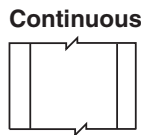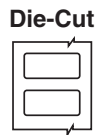
B-437 Self-Extinguishing Wire Wrap Labels

Tedlar® Wire Wrap Labels (B-437) are self-extinguishing and exhibit good solvent and heat resistance. This material is intended for cable and wire bundle applications where self-extinguishing properties are required.

Die-Cut   **Continuous**

Meets Specs:
RoHS Compliant
MIL-M-87958
Boeing BMS 13-47
* with approved ribbons and surfaces

Temp Range:
-94°F to 275°F (-70°C to 135°C)
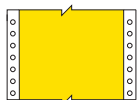
Wire Diameters:
0.079" (2.02 mm) and up

Available Colors:

White	Yellow

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
BMP®71 Printer

Ribbon Compatibility:
R4300 Series
R6200 High Performance Series

B-637 Self-Extinguishing Dot Matrix Wire Wrap Labels

Tedlar® Dot Matrix Printable Wire Wrap Labels (B-637) are self-extinguishing and exhibit good solvent and heat resistance. This material is intended for cable and wire bundle applications where self-extinguishing properties are required.

Continuous

Meets Specs:
RoHS Compliant
MIL-M-87958
Boeing BMS 13-47
* with approved ribbons and surfaces

Temp Range:
-94°F to 275°F (-70°C to 135°C)

Wire Diameters:
0.063" (1.61 mm) and up

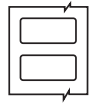**Available Colors:**

White	Yellow

Tested per:
ASTM B 117

Printer & Ribbon Compatibility:
Material is dot matrix printable on a variety of dot matrix printers using R2000 and R5000 dot matrix ribbons.

Tedlar® is a registered trademark of DuPont.

BRADY® WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.

B-498 Repositionable Wire Wrap Labels

Repositionable Vinyl Cloth Wire Wrap Labels (B-498) have excellent holding power, while allowing for clean removal and repositioning of the label. Ideal for marking both ends of a wire that you may need to cut shorter before final termination.

Die-Cut

Meets Specs:
UL Recognized
RoHS Compliant
* with approved ribbons and surfaces*

Temp Range:
-40°F to 175°F (-40°C to 80°C)

Fits Wire Diameters:
0.076" (1.94 mm) and up

Available Colors:
White

Tested per:
ASTM G155, Cycle 1
ASTM B117
Fed. Std. 191A (Method 5306)

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R4300 and R6000 Standard Series
R4900 and R6200 High Performance Series
R4500 Color Series
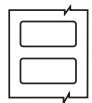
B-499 Permanent Adhesive Wire Wrap Labels

Permanent Adhesive Nylon Cloth Wire Wrap Labels (B-499) are intended for general wire marking and labeling applications.

Die-Cut

Meets Specs:
UL Recognized
CSA Accepted
Halogen-Free per DIN VDE 0472 (part 815)
RoHS Compliant
* with approved ribbons and surfaces*

Temp Range:
-40°F to 193°F (-40°C to 90°C)

Fits Wire Diameters:
0.079" (2.02 mm) and up

Available Colors:
White

Tested per:
ASTM G155, Cycle 1
ASTM D 2979
Fed. Std. 191A (Method 5306)

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
Wraptor™ A6500 Printer Applicator
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R4300 and R6000 Standard Series
R4900 and R6200 High Performance Series
R4500 Color Series

* Material is also dot matrix printable on a variety of dot matrix printers using R2000 and R5000 dot matrix ribbons.*
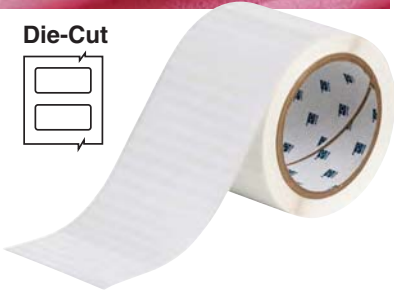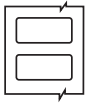
View the Technical Data Sheets

Technical Data Sheets for all Brady materials are available online. View by a specific B-Numbers or search by relevant keywords.

BradyID.com/Techdata

Label Materials

B-423 Glossy Flat Surface Labels

Polyester labels with a gloss topcoat (B-423) and standard adhesive are intended for use in a variety of applications, including electronic PCB and component identification, bar code labeling, inside-panel component labeling, rating plates and solar panel identification.

Die-Cut

Meets Specs:
Halogen-Free per DIN VDE 0472 (part 815)
UL Recognized
RoHS Compliant
CSA Accepted
with approved ribbons and surfaces

Temp Range:
-40°F to 230°F (-40°C to 110°C)

Available Colors:
White

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
Brady IP™ Printer
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R6000 Standard Series
R4900 High Performance Series
R4400 White and Colors Series
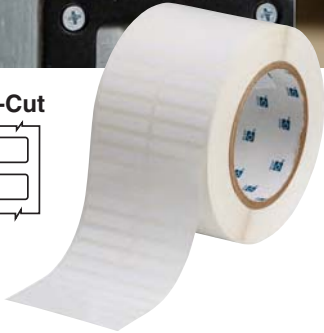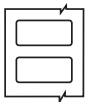
B-483 Aggressive Adhesive Glossy Flat Surface Labels

Gloss White Polyester Labels (B-483) with an ultra aggressive adhesive specifically designed for high adhesion to textured metals and low surface energy plastics. This material is also ideal for applications requiring adhesion to powder coated surfaces.

Die-Cut

Meets Specs:
UL Recognized
RoHS Compliant
CSA Accepted
with approved ribbons and surfaces

Temp Range:
-40°F to 248°F (-40°C to 120°C)

Available Colors:
White

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
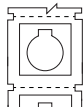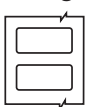Brady IP™ Printer
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R6000 Standard Series
R4900 High Performance Series
R4400 White and Colors Series

B-593 Raised Profile Labels

Raised Profile Labels (B-593) are constructed with a gloss polyester printable surface and an aggressive foam backed adhesive. This provides nameplate-like quality and is intended for use as identifying external push-buttons and switches, as well as rating and serial plates.

Raised profile labels are available in a rectangular format but also with 22.5 and 30.5mm diameter holes to support identification of IEC and NEMA standard push buttons.

Rectangular **Push-Button**

Meets Specs:
UL Recognized
cUL Recognized
RoHS Compliant
with approved ribbons and surfaces

Temp Range:
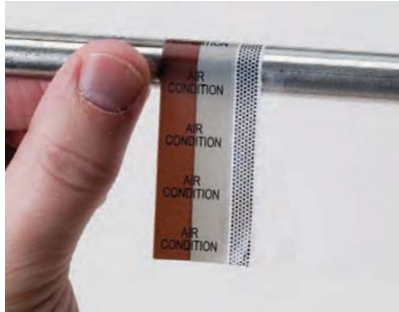-4°F to 212°F (-20°C to 100°C)

Available Colors:

White	Yellow	Red
Blue	Green	Silver

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer
BBP®33 Printer
BMP®71 Printer

Ribbon Compatibility:
R6000 Standard Series
R4400 White Series

BRADY® WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.

B-992 Glossy Fluid Line ID Tape

Our Self-Laminating Fluid Line Identification Tape (B-992) is a glossy polyester tape with permanent, pressure sensitive acrylic adhesive. It can also have a clear tail for self-laminating the printed legend to provide additional durability. In addition, these tapes can eliminate the need for painting, hot stamping and etching of rigid tube identification.

Specifications:
LMA-MF099
LMA-MF092B
LMA-MF093C
LMA-MF094C
FMS-3099A

Ribbon Compatibility:
R6000 Standard Series
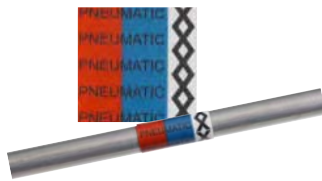
Series1 Fluid Line Tape

Continuous 1" laminated tape fits various diameter tubes and pipes.

- Preprinted with MIL-STD-1247C colors and symbols.

Series 2 Fluid Line Tape

Continuous 2.5" tape fits various diameter tubes and pipes.

- Preprinted with MIL-STD-1247C colors and symbols
- blank white right side for part number, flow direction, torque value, or other information.

Series 3 Laminating Tape

Clear continuous tape used to laminate Series 2 fluid line tapes.

- Meets LMA-MF099 performance requirements

Series 4 Fluid Line Tape

Die-cut, self-laminating, 2.5" wide material designed to fit specific diameter pipes and tubes.

- Has a blank, 1.5" wide area on the right fits printed information as needed and can be either yellow or white.
- Can be perforated or slit for easy separation of function and printable areas
- Meet Bell 31-099, Boeing Helicopter HS184

Series 5 Fluid Line Tape

Die-cut, self-laminating, 2" wide is designed to fit specific diameter pipes and tubes.

- Has a blank, 1" wide area on right portion of label to fit additional printed information as needed.
- Can also be perforated or slit for easy positioning on the surface
- Colors target MIL-STD-1247C specification

B-999 Subsurface Printed Fluid Line ID Tape

The Subsurface Printed Fluid Line Identification Tape (B-999) is available in a continuous rollform or die-cut format. It is a subsurface printed, flexible, transparent polyester film tape with heat activated adhesive. The adhesive has superior resistance to fuels, oils, and hydraulic fluids when compared to typical pressure sensitive adhesives. The B-999 tape's low initial adhesion makes the tape easy to reposition when first applied.

- Type 1 - 1" wide without a printable zone
- Type 2 - 3" wide with dot matrix or thermal transfer printable zone
- Available in common color code legends

Specifications:
Boeing BPS-T-151 and colors target MIL-STD-1247C

Ribbon Compatibility:
R6000 Standard Series

B-508 Nomex® Cable and Harness Marking Tags

High performance Nomex® Cable and Wire Harness Marking Tags (B-508) are designed for use in harsh environments by offering excellent tear, solvent and heat resistance. After printing, they are fastened to bundles using zip ties (sold separately).
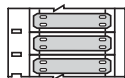
Meets Specs:
SAE-AS-81531
MIL-STD-202, Method 215k
RoHS compliant
* with approved ribbons and surfaces

Temp Range:
-40°F to 248°F (-40°C to 120°C)

Available Colors:

White	Yellow

Tested per:
ASTM E162
ASTM E662

Printer Compatibility:
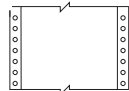Bradyprinter™ i7100 Industrial Label Printer

Ribbon Compatibility:
R4300 Standard Series

* Material is also dot matrix printable on a variety of dot matrix printers using R2000 and R5000 dot matrix ribbons.

B-330 BradyWrap™ Cable Markers

BradyWrap™ Cable Markers (B-330) are heat shrinkable polyolefin markers for wire bundles, large conduits, and installed cables after or before termination. Markers can be heat activated using a heat tool or an over (2 minutes at 275° F) to create the most permanent adhesive bond. B-330 can also be used without heat activation; in that case 72-hour dwell is recommended.

Meets Specs:
MIL-STD-202, Method 215k
SAE-AS-81531
* with approved ribbons and surfaces

Temp Range:
-94°F to 230°F (-70°C to 110°C)

Available Colors:

White

Tested per:
ASTM B-117
ASTM G155, Cycle 1

Printer Compatibility:
Bradyprinter™ i7100 Industrial Label Printer

Ribbon Compatibility:
R4300 Standard Series

* Material is also dot matrix printable on a variety of dot matrix printers using R2000 and R5000 dot matrix ribbons.

Nomex® is a registered trademark of DuPont.

Label Materials

BRADY® WHEN PERFORMANCE MATTERS MOST™

For full material specs, visit BradyID.com/techdata and search by the B-Number.

Wraptor™ A6500
WIRE ID PRINTER APPLICATOR

Make the Identification Process Easier

The Wraptor™ A6500 helps you move through your work faster and takes manual processes out of your hands. With this innovative print and apply machine, you can move your productivity forward — and turn a series of labor-intensive, inefficient tasks into a modern automated process. Benefits include:

Increased Productivity. Save time and labor by printing and applying labels in 5 seconds in a modern automated process.

Easy to Use. Includes a full color responsive touch screen and an icon based user interface for ease-of-use.

Easy to Connect. Enhanced connectivity, three USB ports and 32GB of internal memory to store commonly used job files.

Wraptor Compatible Materials:
- B-427 Self-Laminating Wire Material
- B-472 Polyimide Wirewrap Material
- B-499 Nylon Cloth Material

BSP™45 WIRE ID SLEEVE APPLICATOR

An easy-to-use, fast and cost-effective alternative to manual sleeve application.

The BSP™45 Applicator automatically removes sleeves from the liner, opening and applying them to the wires.

Fast. Up to 6-10 seconds faster than manual labeling.

Easy. Eliminate the tedious, manual and repetitive task of application that can lead to bottlenecks and repetitive motion injuries.

Cost Effective. Save labor time and resources with quicker, automated application.

Reliable. Durable unit for high-volume, long term use.

More info online:
BradyID.com/BSP45

Mandrels and Dies*

Mandrels and dies can quickly be interchanged for sleeve application jobs of .094 to .315 sleeve diameters and in both 1" and 2" sleeve widths.

One set of dies and one mandrel of your choice included with applicator.
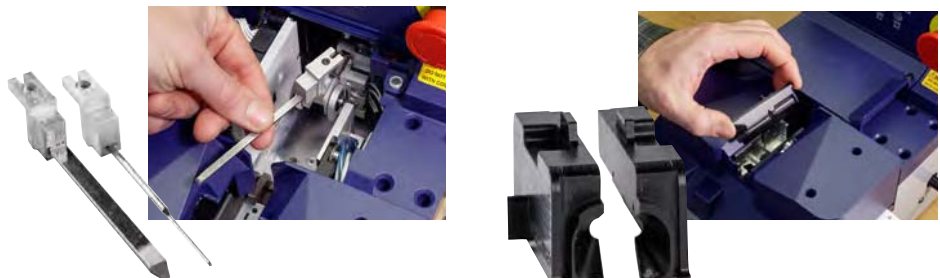
BSP®45 Compatible Materials:
- SA-3PS Polyolefin PermaSleeves (B-342)
- SA-2LSZH Low Smoke Zero Halogen PermaSleeves (B-7641)
- SA-3DR Diesel Resistant PermaSleeves (B-7646)

Robust Label Design Software.

On-Demand Printing Solutions.

Expertly Engineered Materials.

To learn more visit BradyID.com or call 1-888-272-3946.

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