



**Tough on the outside.
Smart on the inside.**

BMP®21-PLUS Label Printer

Tough on the outside. Smart on the inside.

Make your life a little easier. Let the **BMP®21-PLUS Label Printer** work for you. This printer's tough enough and smart enough to help you power through your daily challenges — and still get the job done. Plus, it can tackle just about any custom labeling job you can dream up.

- **Tough** — this printer isn't bothered by occasional rough landings in your toolbox or on the job. With rubber bumpers and handy side grips, it's sturdy enough to handle applications in tight spaces or the great outdoors.
- **Smart** — auto-formatting does the design work for your labels so you can focus on enhancing them with more than 100 symbols. Create professional-looking labels for datacom, electrical, safety and home.
- **User friendly** — just load, type and print to make your wire wrap, patch panel and cable flag labeling jobs a snap. For convenience, this printer has a hands-free label grabber that holds your label until you're ready to apply.

The complete BMP21-PLUS Label Printer solution



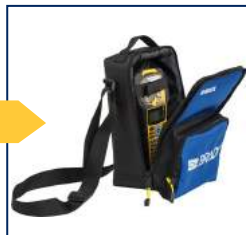
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BMP®21-PLUS

LABEL PRINTER



Indoor and outdoor vinyl labels for safety, facility and lean / 5S (B-595)

Continuous vinyl material ideal for lean / 5S labels, pipe markers, equipment and production area identification. These labels offer excellent resistance to oils, detergents, dirt, grime and many solvents. Permanent adhesive, very pliable, suitable for rough surfaces and outdoor use. 8-10 years average outdoor durability.* Temp. range: -40° F to 180° F (-40° C to 82° C). UL recognized.

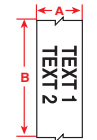


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
Fig. 33b	M21-250-595-WT	B-595	Vinyl	Black on white	0.250 (6.35)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-375-595-WT	B-595	Vinyl	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-500-595-WT	B-595	Vinyl	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-750-595-WT	B-595	Vinyl	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-250-595-YL	B-595	Vinyl	Black on yellow	0.250 (6.35)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-375-595-YL	B-595	Vinyl	Black on yellow	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-500-595-YL	B-595	Vinyl	Black on yellow	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-750-595-YL	B-595	Vinyl	Black on yellow	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-375-595-OR	B-595	Vinyl	Black on orange	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-500-595-OR	B-595	Vinyl	Black on orange	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-750-595-OR	B-595	Vinyl	Black on orange	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-375-595-BK	B-595	Vinyl	White on black	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-BK	B-595	Vinyl	White on black	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-BK	B-595	Vinyl	White on black	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-RD	B-595	Vinyl	White on red	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-RD	B-595	Vinyl	White on red	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-RD	B-595	Vinyl	White on red	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-BL	B-595	Vinyl	White on blue	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-BL	B-595	Vinyl	White on blue	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-BL	B-595	Vinyl	White on blue	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-BR	B-595	Vinyl	White on brown	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-BR	B-595	Vinyl	White on brown	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-BR	B-595	Vinyl	White on brown	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-GN	B-595	Vinyl	White on green	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-GN	B-595	Vinyl	White on green	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-GN	B-595	Vinyl	White on green	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-PL	B-595	Vinyl	White on purple	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-500-595-PL	B-595	Vinyl	White on purple	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-750-595-PL	B-595	Vinyl	White on purple	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4400
Fig. 33b	M21-375-595-GY	B-595	Vinyl	Black on gray	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-500-595-GY	B-595	Vinyl	Black on gray	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-750-595-GY	B-595	Vinyl	Black on gray	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6000

*Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color. The 8 to 10 year outdoor durability applies to the vinyl label stock only; ribbon durability will vary.

Patch panel adhesive strips (B-499 and B-595)

Continuous material for port identification features user-specified spacing when using patch panel mode.

- **B-499 permanent nylon cloth** - Durable industrial strength material designed to conform to curved or flat surfaces
- **B-595 permanent vinyl** - Very pliable, suitable for rough surfaces and outdoor use. Offers excellent resistance to oils, detergents, dirt, grime and many solvents



Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
B-499 nylon cloth								
Fig. 33b	M21-375-499	B-499	Nylon cloth	Black on white	0.375 (9.53)	16 (4.88)	1 roll (cont.)	R4300
Fig. 33b	M21-500-499	B-499	Nylon cloth	Black on white	0.500 (12.70)	16 (4.88)	1 roll (cont.)	R4300
B-595 vinyl								
Fig. 33b	M21-375-595-WT	B-595	Vinyl	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6000
Fig. 33b	M21-500-595-WT	B-595	Vinyl	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6000

Terminal block adhesive strips (B-499)

Continuous, narrow nylon cloth strips for alignment on terminal blocks. The printer's terminal block mode allows for user-specified spacing.

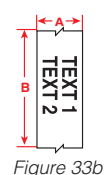


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
Fig. 33b	M21-375-499-TB	B-499	Nylon cloth	Black on white	0.375 (9.53)	16 (4.88)	1 roll (cont.)	R4300
Fig. 33b	M21-500-499-TB	B-499	Nylon cloth	Black on white	0.500 (12.70)	16 (4.88)	1 roll (cont.)	R4300

Nylon cloth wire and cable labels (B-499)

Continuous labels wrap around wires and are highly pliable, conforming to tightly curved surfaces. When in wire marker mode, text auto-repeats on the label. Labels can also be used for flagging with the flag mode.

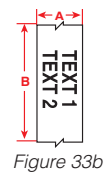


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
Fig. 33b	M21-375-499	B-499	Nylon cloth	Black on white	0.375 (9.53)	16 (4.88)	1 roll (cont.)	R4300
Fig. 33b	M21-500-499	B-499	Nylon cloth	Black on white	0.500 (12.70)	16 (4.88)	1 roll (cont.)	R4300
Fig. 33b	M21-750-499	B-499	Nylon cloth	Black on white	0.750 (19.05)	16 (4.88)	1 roll (cont.)	R4300

Self-laminating vinyl wire and cable labels (B-427)

Labels feature a clear, non-printable area that wraps around the print-on area to protect text. Vinyl material offers superior resistance to solvents, oil, grease, dirt and water. Temp. range: -40° F to 158° F (-40° C to 70° C). UL recognized.

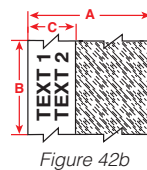


Figure 42b



Figure	Catalog #	B#	Material	Color	Approx. wire gauge	Label width A inch (mm)	Roll length B feet (m)	Print-on area C inch (mm)	Labels per roll	Ribbon in cartridge
Fig. 42b	M21-750-427	B-427	Vinyl	Black on white	16 to 10	0.75 (19.05)	14 (4.27)	0.375 (9.53)	1 roll (cont.)	R4300
Fig. 42b	M21-1000-427	B-427	Vinyl	Black on white	12 to 10	1.00 (25.40)	14 (4.27)	0.375 (9.53)	1 roll (cont.)	R4300
Fig. 42b	M21-1250-427	B-427	Vinyl	Black on white	10 to 4	1.25 (30.48)	14 (4.27)	0.50 (12.70)	1 roll (cont.)	R4300
Fig. 42b	M21-1500-427	B-427	Vinyl	Black on white	10 to 4	1.50 (38.10)	14 (4.27)	0.50 (12.70)	1 roll (cont.)	R4300

PermaSleeve® PS Heat-shrink Wire Markers (B-342)

Military / industrial grade sleeves offer the ultimate in marker durability, permanence and aesthetic appearance. 3:1 heat-shrinkable markers fit snugly around wires, are fade-resistant and flame-retardant. Temp range: -67° F to 275° F (-55° C to 135° C). RoHS compliant and UL recognized.

Meets specifications:

- SSAE-AS-23053/5
- SAE-AS-81531

Tested per:

- ASTM E162
- ASTM E662
- MIL-STD-202

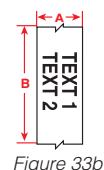


Figure 33b



Figure	Catalog #	B#	Material	Color	Approx. wire gauge	Max wire dia. inch (mm)	Supplied dia. A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
Fig. 33b	** M21-125-C-342	B-342	Polyolefin	Black on white	22 to 16	0.046 - 0.110 (1.2 - 2.8)	0.125 (3.2)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-187-C-342	B-342	Polyolefin	Black on white	20 to 10	0.062 - 0.150 (1.6 - 3.8)	0.187 (4.9)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-250-C-342	B-342	Polyolefin	Black on white	16 to 8	0.094 - 0.215 (2.4 - 5.5)	0.250 (6.9)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-375-C-342	B-342	Polyolefin	Black on white	12 to 4	0.125 - 0.320 (3.2 - 8.1)	0.375 (10.7)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-125-C-342-YL	B-342	Polyolefin	Black on yellow	22 to 16	0.046 - 0.110 (1.2 - 2.8)	0.125 (3.2)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-187-C-342-YL	B-342	Polyolefin	Black on yellow	20 to 10	0.062 - 0.150 (1.6 - 3.8)	0.187 (4.9)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-250-C-342-YL	B-342	Polyolefin	Black on yellow	16 to 8	0.094 - 0.215 (2.4 - 5.5)	0.250 (6.9)	7 (2.13)	1 roll (cont.)	R4300
Fig. 33b	** M21-375-C-342-YL	B-342	Polyolefin	Black on yellow	12 to 4	0.125 - 0.320 (3.2 - 8.1)	0.375 (10.7)	7 (2.13)	1 roll (cont.)	R4300

** **WARNING:** Cancer www.P65Warnings.ca.gov

Polyester labels for inside panel markings and general identification (B-423, B-430 and B-488)

- **B-423 polyester** - white glossy polyester with permanent adhesive
- **B-430 polyester** - clear glossy polyester with permanent adhesive
- **B-488 polyester** - solvent-resistant, white matte polyester with permanent adhesive

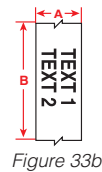


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
B-423 gloss white polyester								
Fig. 33b	M21-250-423	B-423	Polyester	Black on white	0.250 (6.35)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-375-423	B-423	Polyester	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-500-423	B-423	Polyester	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-750-423	B-423	Polyester	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6200
B-430 gloss clear polyester								
Fig. 33b	M21-250-430	B-430	Polyester	Black on clear	0.250 (6.35)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-375-430	B-430	Polyester	Black on clear	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-500-430	B-430	Polyester	Black on clear	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-750-430	B-430	Polyester	Black on clear	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-250-430-WT-CL	B-430	Polyester	White on clear	0.250 (6.35)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-375-430-WT-CL	B-430	Polyester	White on clear	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-500-430-WT-CL	B-430	Polyester	White on clear	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R6200
Fig. 33b	M21-750-430-WT-CL	B-430	Polyester	White on clear	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R6200
B-488 matte white polyester								
Fig. 33b	M21-375-488	B-488	Polyester	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-500-488	B-488	Polyester	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-750-488	B-488	Polyester	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4300

Laboratory labels (B-461 and B-7425)

- **B-461 polyester** - all-white material with smudge resistance, solvent resistance and is suitable for low-temperature applications
- **B-7425 polypropylene** - economical white material with chemical and high-temperature resistance

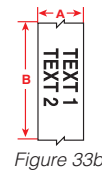


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
B-461 polyester								
Fig. 33b	M21-375-461	B-461	Polyester	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-500-461	B-461	Polyester	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-750-461	B-461	Polyester	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4300
B-7425 polypropylene								
Fig. 33b	M21-375-7425	B-7425	Polypropylene	Black on white	0.375 (9.53)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-500-7425	B-7425	Polypropylene	Black on white	0.500 (12.70)	21 (6.40)	1 roll (cont.)	R4300
Fig. 33b	M21-750-7425	B-7425	Polypropylene	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4300

Water-dissolvable paper labels (B-403)

Continuous paper material designed for temporary identification. Material completely dissolves in warm water within 30 seconds, leaving no adhesive residue.

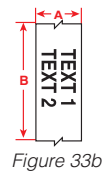


Figure 33b



Figure	Catalog #	B#	Material	Color	Label width A inch (mm)	Roll length B feet (m)	Labels per roll	Ribbon in cartridge
Fig. 33b	M21-750-403	B-403	Dissolvable paper	Black on white	0.750 (19.05)	21 (6.40)	1 roll (cont.)	R4300

Printer and accessories

Catalog #	Description
 BMP21-PLUS	BMP21-PLUS Label Printer* †
 BMP21-PLUS-KIT1	BMP21-PLUS Label Printer Kit** †
 M-AC-110937	AC adapter / charger
 BMP21-PLUS-BATT	Li-Ion battery pack

Catalog #	Description
 BMP21-TOOL	Multi-function tool (magnet / flashlight / retractable stand)
 BMP21-MAGNET	Magnet accessory
 BMP-SC-1	Soft case
 BMP21-PLUS-HC	Hard case

* Printer includes: one M21-750-499 label cartridge, quick start guide and 2-year warranty. (batteries not included).

** Printer kit includes: AC adapter / battery charger, hard case, Li-Ion battery, one M21-750-499 label cartridge, quick start guide and 2-year warranty.

US Patent Nos. 8,322,936; 8,846,171.

Printer specifications

Printer	
Printer name	BMP®21-PLUS Label Printer
Print resolution	Thermal transfer, 203 dpi
Max lines of print	4
Print speed	0.4 in / sec (10 mm / sec)
Keyboard type	ABC or Cyrillic
Dimensions	9.5 in. x 2.5 in. x 4.5 in. (236.22 x 63.5 x 114.3 mm)
Weight	1.66 lbs (0.75 kg) with AA batteries and media roll
Warranty	2 years
Operating temp	40° to 110° F (4° to 43° C)
Humidity	10% to 90% (non-condensing)
Storage temp	0° to 110° F (-18° to 43° C)
Continuous or die-cut labels	Continuous labels only
Portability	Yes
Features	
Memory	16MB, 10 labels (2MB available for storage)
User profiles	No
Cutter type	Straight cut, single hand manual actuate
Cut options	Cut between labels or at end of print job
Label retention after cut	Yes
Labels per day (average)	100
Battery life indicator	Yes
Label odometer / supply remaining	No
Drop test	Transit drop per MIL-STD-810G 5.16.6 S4.6.5 Drop tested: 6 ft. drop
Languages	English, Dutch, German, Italian, French, Spanish Portuguese, Russian (separate keyboard version)
Units	Inches or millimeters
Power	
Power supply	6 AA batteries, AC adapters: US 110V, UK 240V, Europe 220V, or Li-ION rechargeable battery
Battery included	No
Battery life	Li-ION battery: output of 2,000 2 in. (50.8 mm) labels 6 AA batteries: output of 1,800 2 in. (50.8 mm) labels
Rechargeable battery	Lithium Ion 11.7Wh (DC 7.2V 1620 mAh)
Charging options	External via AC
Re-charge time (estimated)	2.5 hours
Power source voltage	110-240
Auto shut off	10 minutes
Print functions	
Included modes	Wire / cable wrap, cable flag, terminal block, patch panel, circuit breaker, banner landscape and banner portrait
Serialization	Yes
Barcoding	39 and 128

Print functions (continued)	
Date / time stamp (real time clock)	Yes
Fixed length	Yes
Mirror print	No
Vertical print	Yes
Reverse print	No
Rotate print	No
Auto format	Yes
Text justification	Horizontal and vertical: centered
Multi-copy printing	Up to 99 copies
Multi-line print	Yes
Frame feature	No
Save files	Yes
Display	
LCD type / size	LCD, 2 in. x 1 in. (50.8 mm x 25.4 mm)
LCD resolution	132 x 64 pixels
LCD characters	13 characters x 3 lines
LCD backlight	Yes, user adjustable
Communication and interface	
Connectivity	Not applicable
PC connectivity	No
Import data	No
Import manufacturer templates / graphics	No
Software compatibility	Not applicable
Media	
Type	Cartridge with media and ribbon combined
Compatible media	M21-series cartridges
Maximum print width	0.63 in. (16 mm)
Maximum print length	36.0 in. (914.4 mm)
Maximum liner width	0.875 in. (22.2 mm)
Media widths	0.250 in. to 0.75 in. (6.4 to 19.1 mm)
Color print capability	Single print color on a label
Cartridge detection	Yes, width and setting
Custom labels available	No
Fonts, graphics, symbols	
Text sizes	6-40 pt with autosizing
Text attributes	Regular, bold
Number of fonts	(1) Brady standard font
Number of symbols	104
Symbol categories	Arrows, datacomm, electrical, greek, home electrical, international, misc, warning

†  **WARNING:** Cancer www.P65Warnings.ca.gov

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