

THT Print Ribbons



Thermal Transfer Print Ribbons (1.000" core, ink side out)

All Brady print ribbons are developed to meet the performance requirements of the materials printed. The combination of the ribbon and label material determine the success of the legend performance. Brady offers a complete line of ribbons that are designed to cover all your label application requirements.

The following ribbons are compatible with Brady printers:

- BradyPrinter i7100
- BBP®72 Sleeve Printer
- BBP®81 Label Printer
- PR-Plus Printer
- MVP Plus Series
- X+II Series Label Machine
- TAGUS™ Printer

Series Description	Catalog #	Size	Color
R4300 Wax/Resin Strong environmental resistance against smearing and chemicals. Reliable, sharp-edge print quality to maximize barcode readability.	R4311	1.000" x 984'	Black
	R4306	1.570" x 984'	Black
	R4302	2.360" x 984'	Black
	R4300	3.270" x 984'	Black
	R4307	4.330" x 984'	Black
	R4304	5.120" x 984'	Black
	R4308	6.850" x 984'	Black
R4400 Resin High density, excellent solvent resistance, high heat resistance, super scratch resistance.	R4400-WT	2.360" x 984'	White
	R4402-WT	3.270" x 984'	White
	R4407-WT	4.330" x 984'	White
	R4404-WT	5.120" x 984'	White
	R4400-GR *	2.360" x 984'	Green
	R4402-GR *	3.270" x 984'	Green
	R4400-RD *	2.360" x 984'	Red
	R4402-RD *	3.270" x 984'	Red
	R4407-RD *	4.330" x 984'	Red
	R4400-BL *	2.360" x 984'	Blue
R4500 Wax/Resin Strong environmental resistance against smearing and chemicals. Reliable, sharp-edge print quality to maximize barcode readability.	R4500-RD	2.360" x 984'	Red
	R4502-RD	3.270" x 984'	Red
	R4507-RD	4.330" x 984'	Red
	R4502-SV	3.270" x 984'	Silver
	R4500-BL	2.360" x 984'	Blue
	R4502-BL	3.270" x 984'	Blue
	R4507-BL	4.330" x 984'	Blue
R4700 Resin Use in conjunction with Brady's matte polyimide to eliminate the need to reflow or pre-bake labels prior to an inline or batch wash process	R4702	2.360" x 984'	Black
	R4706	1.570" x 984'	Black
	R4707	4.330" x 984'	Black
R4900 Resin Superb smear resistance at high temperatures. Superior solvent resistance.	R4902	2.360" x 984'	Black
	R4900	3.270" x 984'	Black
	R4908	6.850" x 984'	Black

Series Description	Catalog #	Size	Color
R6000 Resin Halogen free, high density, excellent solvent resistance, high heat resistance, super scratch resistance.	R6011	0.800" x 984'	Black
	R6006	1.570" x 984'	Black
	R6000	2.360" x 984'	Black
	R6002	3.270" x 984'	Black
	R6007	4.330" x 984'	Black
	R6004	5.120" x 984'	Black
	R6008	6.850" x 984'	Black
R6100 Wax/Resin Outstanding durability for a general purpose ribbon. Reduced print head energy requirements.	R6100	2.360" x 984'	Black
	R6102	3.270" x 984'	Black
	R6107	4.330" x 984'	Black
	R6104	5.120" x 984'	Black
R6200 Resin Designed for harsh environment labeling applications. Superior abrasion, chemical and heat resistance.	R6206	1.570" x 984'	Black
	R6200	2.360" x 984'	Black
	R6202	3.270" x 984'	Black
	R6207	4.330" x 984'	Black
R6400 Resin High density, excellent solvent resistance, high heat resistance, super scratch resistance.	R6406	1.570" x 984'	Black
	R6400	2.360" x 984'	Black
	R6402	3.270" x 984'	Black
	R6407	4.330" x 984'	Black
R6600 Resin Diesel resistant for printing on Brady PermaSleeve and Heatex Sleeves.	R6600	2.360" x 984'	Black
	R6602	3.270" x 984'	Black
	R6607	4.330" x 984'	Black
R6700 Wax/Resin High performance against scratching, smudging and harsh chemicals.	R6700-WT	2.360" x 984'	White
	R6702-WT	3.270" x 984'	White
	R6707-WT	4.330" x 984'	White
R6800 Resin Specialized white ribbon to be used on dark colored PermaSleeve HT markers.	R6800-WT	2.360" x 984'	White
	R6800-WT	3.270" x 984'	White
	R6807-WT	4.330" x 984'	White

* ⚠ **WARNING:** Reproductive Harm www.P65Warnings.ca.gov

Understanding ribbon parts:

R4313

Ribbon Series:
R4300 Series

Ribbon Dimension:
4.000" x 242'

Calculate how many labels per THT ribbon:

Standard THT ribbons are 984 ft long (unless otherwise noted).

Step 1: 984 feet = 11,808 inches

Step 2: 11,808 inches
÷ label vertical repeat
= total label rows per ribbon

Step 3: total label rows per ribbon
x number of labels across
= total labels per ribbon

3" Core Materials - Polyimide

B-724 Ultra Durable Polyimide Material

Color: Amber Finish: Matte

Amber high temperature polyimide material with an ultra durable adhesive designed for use with extreme wash protocol and cleaning chemicals. When used with Brady R4300 series ribbons, fulfills requirements for MIL-STD-202G Method 215K and SAE AS81531 Marking of Electrical Insulating Material.

Performance Attributes:

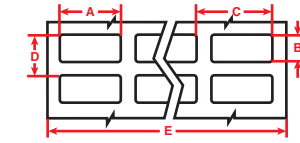


Figure 1

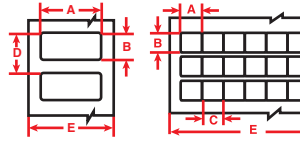


Figure 2

Figure 4



Diagram	Catalog #	Material	Color	Label Width A Inch (mm)	Label Height B Inch (mm)	Horiz. Repeat C Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 4	THT-11-724-10	Polyimide	Amber	0.250 (6.4)	0.250 (6.4)	0.250 (6.4)	0.375 (9.5)	3.200 (81.3)	12	10,000	R4300
Fig. 1	THT-38-724-10	Polyimide	Amber	0.375 (9.5)	0.375 (9.5)	0.437 (11.1)	0.475 (12.1)	3.200 (81.3)	7	10,000	R4300
Fig. 1	THT-12-724-10	Polyimide	Amber	0.500 (12.7)	0.437 (11.1)	0.662 (16.8)	0.537 (13.6)	3.350 (85.1)	5	10,000	R4307, R4707
Fig. 1	THT-14-724-10	Polyimide	Amber	0.650 (16.5)	0.200 (5.1)	0.700 (17.8)	0.300 (7.6)	2.950 (74.9)	4	10,000	R4300
Fig. 2	THT-47-724-10	Polyimide	Amber	0.650 (16.5)	0.200 (5.1)	-	0.300 (7.6)	0.850 (21.6)	1	10,000	R4311
Fig. 1	THT-57-724-10	Polyimide	Amber	0.700 (17.8)	0.375 (9.5)	0.800 (20.3)	0.475 (12.1)	3.350 (85.1)	4	10,000	R4307, R4707
Fig. 1	THT-1-724-10	Polyimide	Amber	0.750 (19.1)	0.250 (6.4)	0.800 (20.3)	0.350 (8.9)	3.350 (85.1)	4	10,000	R4307, R4707
Fig. 2	THT-46-724-10	Polyimide	Amber	0.750 (19.1)	0.250 (6.4)	-	0.350 (8.9)	0.950 (24.1)	1	10,000	R4311
Fig. 1	THT-50-724-10	Polyimide	Amber	0.750 (19.1)	0.750 (19.1)	0.800 (20.3)	0.875 (22.2)	3.350 (85.1)	4	10,000	R4307, R4707
Fig. 1	THT-2-724-10	Polyimide	Amber	0.900 (22.9)	0.250 (6.4)	1.125 (28.6)	0.350 (8.9)	3.350 (85.1)	3	10,000	R4307, R4707
Fig. 2	THT-49-724-10	Polyimide	Amber	0.900 (22.9)	0.250 (6.4)	-	0.350 (8.9)	1.100 (27.9)	1	10,000	R4306, R4706
Fig. 2	THT-103-724-10	Polyimide	Amber	1.000 (25.4)	0.250 (6.4)	-	0.350 (8.9)	1.200 (30.5)	1	10,000	R4306, R4706
Fig. 1	THT-3-724-10	Polyimide	Amber	1.000 (25.4)	0.375 (9.5)	1.075 (27.3)	0.475 (12.1)	3.350 (85.1)	3	10,000	R4307, R4707
Fig. 1	THT-41-724-10	Polyimide	Amber	1.000 (25.4)	0.187 (4.8)	1.075 (27.3)	0.287 (7.3)	3.350 (85.1)	3	10,000	R4307, R4707
Fig. 1	THT-51-724-10	Polyimide	Amber	1.000 (25.4)	0.250 (6.4)	1.075 (27.3)	0.375 (9.5)	3.350 (85.1)	3	10,000	R4307, R4707
Fig. 1	THT-5-724-10	Polyimide	Amber	1.000 (25.4)	0.500 (12.7)	1.075 (27.3)	0.600 (15.2)	3.350 (85.1)	3	10,000	R4307, R4707
Fig. 1	THT-13-724-10	Polyimide	Amber	1.250 (31.8)	0.250 (6.4)	1.300 (33.0)	0.375 (9.5)	2.750 (69.9)	2	10,000	R4300
Fig. 1	THT-29-724-10	Polyimide	Amber	1.250 (31.8)	0.375 (9.5)	1.300 (33.0)	0.475 (12.1)	2.750 (69.9)	2	10,000	R4300
Fig. 2	THT-43-724-10	Polyimide	Amber	1.250 (31.8)	0.250 (6.4)	-	0.350 (8.9)	1.450 (36.8)	1	10,000	R4306, R4706
Fig. 2	THT-44-724-10	Polyimide	Amber	1.375 (34.9)	0.250 (6.4)	-	0.350 (8.9)	1.600 (40.6)	1	10,000	R4302
Fig. 1	THT-28-724-10	Polyimide	Amber	1.500 (38.1)	0.125 (3.2)	1.650 (41.9)	0.250 (6.4)	3.350 (85.1)	2	10,000	R4307, R4707
Fig. 1	THT-4-724-10	Polyimide	Amber	1.500 (38.1)	0.250 (6.4)	1.650 (41.9)	0.350 (8.9)	3.350 (85.1)	2	10,000	R4307, R4707
Fig. 2	THT-45-724-10	Polyimide	Amber	1.500 (38.1)	0.250 (6.4)	-	0.350 (8.9)	1.700 (43.2)	1	10,000	R4302, R4702
Fig. 2	THT-15-724-2.5	Polyimide	Amber	2.000 (50.8)	0.250 (6.4)	-	0.375 (9.5)	2.200 (55.9)	1	2,500	R4302, R4702
Fig. 2	THT-48-724-10	Polyimide	Amber	2.000 (50.8)	0.250 (6.4)	-	0.350 (8.9)	2.200 (55.9)	1	10,000	R4302, R4702
Fig. 2	THT-7-724-3	Polyimide	Amber	2.750 (69.9)	1.250 (31.8)	-	1.375 (34.9)	2.950 (74.9)	1	3,000	R4300
Fig. 2	THT-16-724-2.5	Polyimide	Amber	3.000 (76.2)	0.250 (6.4)	-	0.375 (9.5)	3.200 (81.3)	1	2,500	R4300

Custom Laser Engravable Traceability Labels

B-730: Black matte laser markable polyimide (PI)

B-731: Black matte electrostatic dissipative (ESD) laser markable (PI)

B-421: Black matte laser markable polyester (PET)

Laser marking or engraving is a complimentary process to thermal heat transfer. While laser engraving is slower than THT, it is second to none in print permanence. The printing process of these labels also creates a very high resolution print. So precise that it can reach up to 1200 dpi, making it ideal for the small font applications that are often required in electrical component boards.

Other features include:

- Repeated harsh aqueous cleaning resistance
- High temperature, wave soldering resistance up to 572° F (300° C)
- Custom sizes engineered-to-order and ready to ship in under 3 weeks
- Compatibility with most IR laser marking systems
- Optional ESD prevention layers
- Reduced rework issues related to direct laser marking board materials



Contact Brady for a custom quote.

Wraprot™ A6500 Wire ID Printer Applicator

Materials for Wraprot™ Wire ID Printers

The following catalog numbers beginning with "WRAP" are specially designed for use in the new Wraprot A6500 Printer and the legacy Wraprot Printer (#WRAPTOR-PTR).

B-427 Self-Laminating Wire Material

Color: White/Clear

Finish: Matte

Self-laminating vinyl features white printable area with a clear "tail" that wraps around marker. Tail serves as overlamine to protect the print. Superior resistance to abrasion, solvents, water, oil and dirt.

Performance Attributes:

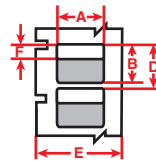


Figure 14



Diagram	Catalog #	Material	Color	Wire Gauge	Label Width A Inch (mm)	Label Height B Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Write On Area F Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 14	WRAP-1-427	Vinyl	White	18-22g; 0.06" - 0.08" dia	0.500 (12.7)	0.750 (19.1)	0.875 (22.2)	0.790 (20.1)	0.375 (9.5)	1	6800	R4311
Fig. 14	WRAP-2-427	Vinyl	White	12-18g; 0.08" - 0.159" dia	1.000 (25.4)	1.000 (25.4)	1.125 (28.6)	1.290 (32.8)	0.375 (9.5)	1	5300	R4306
Fig. 14	WRAP-3-427	Vinyl	White	10-14g; 0.159" - 0.199" dia	1.000 (25.4)	1.250 (31.8)	1.375 (34.9)	1.290 (32.8)	0.500 (12.7)	1	4300	R4306
Fig. 14	WRAP-11-427	Vinyl	White	6-14g; 0.159" - 0.279" dia	0.500 (12.7)	1.500 (38.1)	1.625 (41.3)	0.790 (20.1)	0.500 (12.7)	1	3600	R4311
Fig. 14	WRAP-4-427	Vinyl	White	6-14g; 0.159" - 0.279" dia	1.000 (25.4)	1.500 (38.1)	1.625 (41.3)	1.290 (32.8)	0.500 (12.7)	1	3600	R4306
Fig. 14	WRAP-12-427	Vinyl	White	6-14g; 0.159" - 0.279" dia	2.000 (50.8)	1.500 (38.1)	1.625 (41.3)	2.290 (58.2)	0.500 (12.7)	1	3600	R4302
Fig. 14	WRAP-10-427	Vinyl	White	1/0-8g; 0.239" - 0.438" dia	1.000 (25.4)	2.250 (57.2)	2.375 (60.3)	1.290 (32.8)	0.750 (19.1)	1	2500	R4306
Fig. 14	WRAP-5-427	Vinyl	White	1/0-8g; 0.239" - 0.517" dia	1.000 (25.4)	2.500 (63.5)	2.625 (66.7)	1.790 (45.5)	0.750 (19.1)	1	2200	R4306
Fig. 14	WRAP-6-427	Vinyl	White	3/1-6g; 0.318" - 0.597" dia	2.000 (50.8)	3.000 (76.2)	3.125 (79.4)	2.290 (58.2)	1.000 (25.4)	1	1900	R4302

B-472 Polyimide Wirewrap Material

Color: White

Finish: Matte

Polyimide wire and cable material specifically designed to self-extinguish and prevent flames from propagating. This material is ideal for wire and cable identification in extreme environments, particularly in the aerospace, defense and mass transit industries.

Performance Attributes:

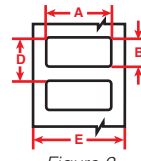


Figure 2



Diagram	Catalog #	Material	Color	Wire Gauge	Label Width A Inch (mm)	Label Height B Inch (mm)	Vert. Repeat D Inch (mm)	Web Width E Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 2	WRAP-1-472	Polyimide	White	10-14g; 0.159" - 0.199" dia	0.750 (19.1)	0.500 (12.7)	0.875 (22.2)	0.790 (20.1)	1	6800	R4311
Fig. 2	WRAP-6-472	Polyimide	White	3/0-8g; 0.212" - 0.597" dia	2.000 (50.8)	3.000 (76.2)	3.125 (79.4)	2.290 (58.2)	1	1900	R4302

B-499 Nylon Cloth Material

Color: White

Finish: Matte

Nylon cloth with permanent adhesive allows labeling in environments with heat, cold, oil and dirt. Ideal for wire and cable marking, electronic component marking, laboratory vial identification and general labeling.

Performance Attributes:

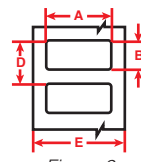


Figure 2



Diagram	Catalog #	Material	Color	Wire Gauge	Label Width A Inch (mm)	Label Height B Inch (mm)	Labels Per Row	Labels Per Pkg	Rec. Ribbon
Fig. 2	WRAP-7-499	Nylon Cloth	White	10-22g; 0.06" - 0.199" dia	0.500 (12.7)	0.750 (19.1)	1	4500	R4311
Fig. 2	WRAP-13-499	Nylon Cloth	White	6-14g; 0.159" - 0.279" dia	1.000 (25.4)	1.000 (25.4)	1	4100	R4306
Fig. 2	WRAP-8-499	Nylon Cloth	White	2-14g; 0.159" - 0.438" dia	1.000 (25.4)	1.500 (38.1)	1	2800	R4306
Fig. 2	WRAP-9-499	Nylon Cloth	White	3/0-8g; 0.212" - 0.597" dia	2.000 (50.8)	2.000 (50.8)	1	2100	R4302

Wraprot™ A6500 Wire ID Printer Applicator



Wraprot Printer Ribbons

All Brady print ribbons are developed to meet the performance requirements of the materials printed. The combination of the ribbon and label material determine the success of the legend performance. Brady offers a complete line of ribbons that are designed to cover all your label application requirements.

Wraprot print ribbons (1.000" core, ink side out)

Ribbon Series	Catalog #	Size	Color
R4300 Wax/Resin Strong environmental resistance against smearing and chemicals. Also, reliable, sharp-edge print quality to maximize barcode readability.	R4311	1.000" x 984'	Black
	R4306	1.570" x 984'	Black
	R4302	2.360" x 984'	Black

Ribbon / Material Cross-Reference Guide

To ensure the best legend permanence, all ribbons have been developed to meet the requirements of the materials to be printed on. Use the guide below to determine which ribbon series is recommended with your print materials.

B-#	Material	R4300 (Black)	R4500 (Black)	R4900 (Black)	R6000 (Black)	R6200 (Black)
B-427	Vinyl	● UL	▲	—	—	▲ UL
B-472	Polyimide	●	—	—	—	●
B-499	Nylon	▲ UL/CSA	▲	● UL/CSA	▲ UL	▲

●	Recommended ribbon for use with respective material.
▲	Acceptable ribbon for use with respective material.
UL	Materials are UL recognized with its respective ribbon.
CSA	Materials are CSA approved with its respective ribbon.

Integrated solutions

Wraprot can be integrated into your production system using Brady Programming Language (BPL). For more information call 1-888-250-3082.

Custom labels

Don't see a stock label in the size, configuration or color needed for your particular application?

Our dedicated and experienced custom quoting team can provide pricing for your unique label needs. Contact us at 1-888-250-3082.

