

BBP®33 Materials

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BBP®33 Wire & Cable Materials:

B-342 PermaSleeve® PS Polyolefin Wire Marking Sleeves

Standard Military/Industrial Grade. 3:1 Shrink ratio.

- A 3:1 heat shrinkable wire marker sleeve that fits snugly around wires
- Can be used for identification or wire protection
- Fade-resistant and flame-retardant
- Meets the following insulating and physical property specifications:
 - SAE-AMS-DTL-23053/5C (class 1)
 - SAE-AS-81531
 - MIL-STD-202
 - Tested per ASTM E162, ASTM E662

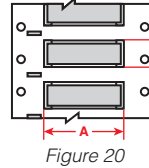


Figure 20



Service temp: -40°F to 267°F (short burst max temp: 5 min at 500°F, 24 hrs at 350°F)
Agency Approvals: RoHS

Fits Printer Model	Diagram	Catalog #	Material	Color	For Wire Gauge (approx.)	For Wire Diameters Inch (mm) Min. Max.	Supplied Diameter B Inch (mm)	Recovered Diameter Inch (mm)	Recovered Wall Thickness Inch (mm)	Sleeves per Row	Sleeves per Roll	Rec. Ribbon
3:1 Shrink ratio single-side printable, 2" sleeve width (diagram side A):												
BBP33	Fig. 20	B33-94-2-342	B-342	White	28 to 20	0.023 (0.6) - 0.080 (2.0)	0.094 (2.4)	0.024 (0.6)	.024 (0.6) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-125-2-342	B-342	White	22 to 16	0.046 (1.2) - 1.110 (2.8)	0.125 (3.2)	0.047 (1.2)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-187-2-342	B-342	White	20 to 10	0.062 (1.6) - 0.150 (3.8)	0.187 (4.7)	0.062 (1.6)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-187-2-342-2	B-342	White	20 to 10	0.062 (1.6) - 0.150 (3.8)	0.187 (4.7)	0.062 (1.6)	.020 (0.5) +/- .003 (0.07)	2	2000	B30-R4300
BBP33	Fig. 20	B33-250-2-342	B-342	White	16 to 8	0.094 (2.4) - 0.215 (5.5)	0.250 (6.4)	0.093 (2.4)	.025 (0.6) +/- .003 (0.07)	1	500	B30-R4300
BBP33	Fig. 20	B33-250-2-342-2	B-342	White	16 to 8	0.094 (2.4) - 0.215 (5.5)	0.250 (6.4)	0.093 (2.4)	.025 (0.6) +/- .003 (0.07)	2	1000	B30-R4300
BBP33	Fig. 20	B33-375-2-342	B-342	White	12 to 4	0.125 (3.2) - 0.320 (8.1)	0.375 (9.5)	0.125 (3.1)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33-375-2-342-2	B-342	White	12 to 4	0.125 (3.2) - 0.320 (8.1)	0.375 (9.5)	0.125 (3.1)	.025 (0.6) +/- .003 (0.07)	2	500	B30-R4300
BBP33	Fig. 20	B33-500-2-342	B-342	White	8 to 1	0.187 (4.8) - 0.450 (11.4)	0.500 (12.7)	0.187 (4.7)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33-750-2-342	B-342	White	6 to 4/0	0.250 (6.4) - 0.700 (17.8)	0.750 (19.0)	0.250 (6.4)	.025 (0.6) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-1000-2-342	B-342	White	2 to 0.950 dia	0.333 (8.5) - 0.950 (24.1)	1.000 (25.4)	0.375 (9.5)	.036 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-1500-2-342	B-342	White	N/A	0.500 (12.7) - 1.400 (35.6)	1.500 (38.1)	0.500 (12.7)	.035 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-94-2-342YL	B-342	Yellow	28 to 20	0.023 (0.6) - 0.080 (2.0)	0.094 (2.4)	0.024 (0.6)	.024 (0.6) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-125-2-342YL	B-342	Yellow	22 to 16	0.046 (1.2) - 1.110 (2.8)	0.125 (3.2)	0.047 (1.2)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-187-2-342YL	B-342	Yellow	20 to 10	0.062 (1.6) - 0.150 (3.8)	0.187 (4.7)	0.062 (1.6)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33-250-2-342YL	B-342	Yellow	16 to 8	0.094 (2.4) - 0.215 (5.5)	0.250 (6.4)	0.093 (2.4)	.025 (0.6) +/- .003 (0.07)	1	500	B30-R4300
BBP33	Fig. 20	B33-375-2-342YL	B-342	Yellow	12 to 4	0.125 (3.2) - 0.320 (8.1)	0.375 (9.5)	0.125 (3.1)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33-500-2-342YL	B-342	Yellow	8 to 1	0.187 (4.8) - 0.450 (11.4)	0.500 (12.7)	0.187 (4.7)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33-750-2-342YL	B-342	Yellow	6 to 4/0	0.250 (6.4) - 0.700 (17.8)	0.750 (19.0)	0.250 (6.4)	.025 (0.6) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-1000-2-342YL	B-342	Yellow	2 to 0.950 dia	0.333 (8.5) - 0.950 (24.1)	1.000 (25.4)	0.375 (9.5)	.036 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-1500-2-342YL	B-342	Yellow	N/A	0.500 (12.7) - 1.400 (35.6)	1.500 (38.1)	0.500 (12.7)	.035 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33-1500-2-342BK	B-342	Black	N/A	0.500 (12.7) - 1.400 (35.6)	1.500 (38.1)	0.500 (12.7)	.035 (0.9) +/- .003 (0.07)	1	100	B30-4500-SV
3:1 Shrink ratio double-side printable, 2" sleeve width (diagram side A):												
BBP33	Fig. 20	B33D-94-2-342	B-342	White	28 to 20	0.023 (0.6) - 0.080 (2.0)	0.094 (2.4)	0.024 (0.6)	.024 (0.6) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-187-2-342	B-342	White	20 to 10	0.062 (1.6) - 0.150 (3.8)	0.187 (4.7)	0.062 (1.6)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-125-2-342	B-342	White	22 to 16	0.046 (1.2) - 1.110 (2.8)	0.125 (3.2)	0.047 (1.2)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-250-2-342	B-342	White	16 to 8	0.094 (2.4) - 0.215 (5.5)	0.250 (6.4)	0.093 (2.4)	.025 (0.6) +/- .003 (0.07)	1	500	B30-R4300
BBP33	Fig. 20	B33D-375-2-342	B-342	White	12 to 4	0.125 (3.2) - 0.320 (8.1)	0.375 (9.5)	0.125 (3.1)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33D-500-2-342	B-342	White	8 to 1	0.187 (4.8) - 0.450 (11.4)	0.500 (12.7)	0.187 (4.7)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33D-750-2-342	B-342	White	6 to 4/0	0.250 (6.4) - 0.700 (17.8)	0.750 (19.0)	0.250 (6.4)	.025 (0.6) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33D-1000-2-342	B-342	White	2 to 0.950 dia	0.333 (8.5) - 0.950 (24.1)	1.000 (25.4)	0.375 (9.5)	.036 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33D-1500-2-342	B-342	White	N/A	0.500 (12.7) - 1.400 (35.6)	1.500 (38.1)	0.500 (12.7)	.035 (0.9) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33D-94-2-342YL	B-342	Yellow	28 to 20	0.023 (0.6) - 0.080 (2.0)	0.094 (2.4)	0.024 (0.6)	.024 (0.6) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-125-2-342YL	B-342	Yellow	22 to 16	0.046 (1.2) - 1.110 (2.8)	0.125 (3.2)	0.047 (1.2)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-187-2-342YL	B-342	Yellow	20 to 10	0.062 (1.6) - 0.150 (3.8)	0.187 (4.7)	0.062 (1.6)	.020 (0.5) +/- .003 (0.07)	1	1000	B30-R4300
BBP33	Fig. 20	B33D-250-2-342YL	B-342	Yellow	16 to 8	0.094 (2.4) - 0.215 (5.5)	0.250 (6.4)	0.093 (2.4)	.025 (0.6) +/- .003 (0.07)	1	500	B30-R4300
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BBP33	Fig. 20	B33D-500-2-342YL	B-342	Yellow	8 to 1	0.187 (4.8) - 0.450 (11.4)	0.500 (12.7)	0.187 (4.7)	.025 (0.6) +/- .003 (0.07)	1	250	B30-R4300
BBP33	Fig. 20	B33D-750-2-342YL	B-342	Yellow	6 to 4/0	0.250 (6.4) - 0.700 (17.8)	0.750 (19.0)	0.250 (6.4)	.025 (0.6) +/- .003 (0.07)	1	100	B30-R4300
BBP33	Fig. 20	B33D-1000-2-342YL	B-342	Yellow	2 to 0.950 dia	0.333 (8.5) - 0.950 (24.1)	1.000 (25.4)	0.375 (9.5)	.036 (0.9) +/- .003 (0.07)	1	100	B30-R4300
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BBP33	Fig. 20	B33D-500-2-342BK	B-342	Black	8 to 1	0.187 (4.8) - 0.450 (11.4)	0.500 (12.7)	0.187 (4.7)	.025 (0.6) +/- .003 (0.07)	1	250	B30-4500-SV
BBP33	Fig. 20	B33D-750-2-342BK	B-342	Black	6 to 4/0	0.250 (6.4) - 0.700 (17.8)	0.750 (19.0)	0.250 (6.4)	.025 (0.6) +/- .003 (0.07)	1	100	B30-4500-SV
BBP33	Fig. 20	B33D-1000-2-342BK	B-342	Black	2 to 0.950 dia	0.333 (8.5) - 0.950 (24.1)	1.000 (25.4)	0.375 (9.5)	.036 (0.9) +/- .003 (0.07)	1	100	B30-4500-SV
BBP33	Fig. 20	B33D-1500-2-342BK	B-342	Black	N/A	0.500 (12.7) - 1.400 (35.6)	1.500 (38.1)	0.500 (12.7)	.035 (0.9) +/- .003 (0.07)	1	100	B30-4500-SV

BBP®33 Printer Ribbons on page 109.
Full Material Properties on page 187.