



# TECHNICAL DATA SHEET

## SB Plus Self Laminating Labels

Document number: TTDS-211  
 Issue: 7  
 Date: December 2013

### PRODUCT OVERVIEW

<b>MATERIAL DESCRIPTION:</b>	TE Connectivity "SBP" label is a thermal transfer printable, transparent vinyl film with a permanent acrylic adhesive supplied with a white printable area (red, orange, yellow, green, blue, violet, non-standard colors available upon request) which is over-laminated upon application with the transparent portion of the label. This "self-laminating" feature protects the printed area from exposure to oils, solvent, moisture and abrasion. Excellent conformability to round, irregular and flexible surfaces.
<b>APPLICATION/USE:</b>	Ideal for wire and cable identification, including flat ribbon cables that are subject to repeat bending. For optimal results, wrap around techniques is recommended for wire outside diameters > 0.064 inch. Flag technique is recommended for diameters < 0.064 inch.
<b>RECOMMENDED RIBBONS</b>	Thermal Transfer; TMS-RJS-RIBBON-4RPSCE Thermal Transfer; 1330-0619-06 Thermal Transfer; 1330-0606-10 Thermal Transfer; 1330-0607-10 Thermal Transfer; 1330-0607-T200 Thermal Transfer; TMS-101-RIBBON-4RPSCE
<b>RECOMMENDED PRINTERS</b>	T308S Printer T312M Printer T208M Printer T212M Printer T200 – Label Printer T200-Ident Printer TE3112 TE3124
<b>AGENCY APPROVALS</b>	RoHS compliant
<b>APPROXIMATE THICKNESSES:</b>	Face stock: 0.076mm (0.003 inches). Adhesive: 0.025mm (0.001 inches). Liner: 0.076mm (0.003 inches).
<b>MINIMUM APPLICATION TEMPERATURE:</b>	10°C (50°F).

PHYSICAL PROPERTIES	VALUE	TEST METHOD
Adhesion to stainless steel <ul style="list-style-type: none"> <li>10 minute dwell</li> <li>72 hour dwell</li> </ul>	<ul style="list-style-type: none"> <li>42 oz/in (2.62 lb/in)</li> <li>76 oz/in (4.74 lb/in)</li> </ul>	ASTM D3330
Tensile Strength	8-12 lb/in	Refer to footnote 3
Elongation	8-130 %	Refer to footnote 3

PERFORMANCE PROPERTIES	VALUE	TEST METHOD
Print adherence See footnote 1 <ul style="list-style-type: none"> <li>IPA rub</li> <li>IPA rub after 24 hrs</li> <li>IPA rub after 72 hrs</li> </ul>	<ul style="list-style-type: none"> <li>No effect on print legibility</li> <li>No effect on print legibility</li> <li>No effect on print legibility</li> <li>No effect on print legibility</li> </ul>	<ul style="list-style-type: none"> <li>MIL-STD-202 method 215</li> <li>MIL-STD-202 method 215</li> <li>MIL-STD-202 method 215</li> <li>MIL-M-81531</li> </ul>
Resistance to fluids <ul style="list-style-type: none"> <li>24 hrs in SAE 10-40 oil</li> </ul>	<ul style="list-style-type: none"> <li>No effect on print legibility No delaminating or edge lift</li> </ul>	Soak for 24 hours @25°C while affixed on aluminum panel.



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<ul style="list-style-type: none"> <li>• Brake fluid</li> <li>• IPA/ETOH</li> <li>• 50% v/v Acetone</li> <li>• 409</li> <li>• Water</li> </ul>	<ul style="list-style-type: none"> <li>• No effect on print legibility No delaminating or edge lift See footnote 4</li> <li>• No effect on print legibility No delaminating or edge lift</li> <li>• No effect on print legibility No delaminating or edge lift See footnote 4</li> <li>• No effect on print legibility No delaminating or edge lift</li> <li>• No effect on print legibility No delaminating or edge lift</li> </ul>	
Wire Wrap see footnote 2 <ul style="list-style-type: none"> <li>• 8 gauge 24 hrs</li> <li>• 24 gauge 24 hrs</li> <li>• 8 gauge 72 hrs</li> <li>• 24 gauge 72 hrs</li> </ul>	No sign of delaminating or edge lift.	<ul style="list-style-type: none"> <li>• Labels were evaluated for delaminating effects after 24 hours at 25°C.</li> <li>• Labels were evaluated for delaminating effects after 72 hours @ 70°C.</li> </ul>

ENVIRONMENTAL AND STORAGE PROPERTIES	VALUE	TEST METHOD
Shelf Life	3 years stored at +65-80°F (+18-27°C), RH 50-80% max	ASTM 3611 for 144 hrs
Service Temperature	-60 to +200°F (-51 to +93°C)	See footnote 5
Outdoor durability	5 years	See footnote 3

**Footnote**

- 1) Print Adherence evaluations were performed using Ribbon 1330-0619-06 (black resin) in non-laminated format.
- 2) The SBP100143 type labels were used for wire wrap evaluations. Flag wraps and self-laminating wraps were applied.
- 3) Test reports can be obtained upon request.
- 4) When using these labels in self-laminating format.
- 5) No color change for 144 hours at 80°C.

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- ☎ Germany: + 49 (0) 6074 8908 0
- ☎ UK: + 44 (0) 1495 244 000 (Labels)
- ☎ Japan: + 81 (0) 44 900 5102

- ☎ N America: + 1 401 751 6505 (East Coast)
- ☎ France: + 33 (0) 1 34 20 21 22 (Other products)
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- ☎ Singapore: + 65 (0) 4866 151

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