



SMOOTH N SLEEK SDN BHD

(Co. Reg. No: 321141-K) ESTD. SINCE 1994

UNIT 1-05-12, KRYSTAL POINT CORPORATE PARK, KRYSTAL POINT II,
LEBUH BUKIT KECIL 6, 11900 BAYAN LEPAS, PENANG, MALAYSIA.

TEL : (6)04-644 8029, 644 9029 FAX : (6)04-644 0107 E-mail : sales@snspcb.com

WEBSITE : www.snspcb.com

GST # 001193566208

118-202X Wire Dots

Wire Dots are a wire tacking system consisting of pre-cut shapes of a thin, flexible polymer film membrane coated on one side with a high performance, electronics grade permanent pressure sensitive adhesive resulting in a highly conformable, high strength bond. The adhesive release liner is an environmentally stable poly-coated kraft liner.

As with any wire tacking material, in order to achieve maximum bond strength and reliability, application surface must be clean, dry and free of flux, skin oils and other contaminants. Clean with isopropyl alcohol or equivalent if necessary. Firm application pressure develops better adhesive contact and thus improves bond strength. Avoid placing Wire Dots or any other wire tacking material directly over exposed copper or plated surfaces.

Wire Dots will perform best when applied at temperatures between 60°F (15°C) and 100°F (38°C). Do not apply below 50°F (10°C).

General Performance Characteristics

Bond Strength

Wire Dots have very good initial bond strength that generally increases as a function of time over approximately 72 hours to stabilize as a high strength reliable bond.

Humidity Resistance

High humidity has a minimal effect on adhesive performance. Bond strengths are actually slightly higher after exposure for 7 days at 90°F (32°C) and 90% relative humidity.

Temperature Cycling and Bond Strength

Bond strength generally increases after four times through:

- 4 hours at 158°F (70°C)
- 4 hours at -20°F (-29°C)
- 16 hours at room temperature.

Cleaning Process Resistance (chemical & hot water)

Wire Dots will hold securely after exposure to numerous chemicals including most flux cleaning solutions/sprays, saponifiers, "Freon" TF, mild acids and alkalis. Wires will hold securely through a typical PCB hot water wash.

Temperature Range

- Low: -40°F (-40°C)
- High short term: 390°F (200°C)
- High long term: 275°F (135°C)

Repositioning

Wire Dots can be repositioned during and immediately after initial bonding without causing adhesive transfer or loss of bond strength.



Old - Jumper wires bonded with messy and difficult to use quick set glue.



RoHS Compliant



New - Jumper wires bonded with neat, easy to use, Wire Dots

Shelf Life

Product retains its performance and properties for one year from date of purchase if properly stored at room temperature conditions. Storage in plastic bag is recommended.

Applications

[Jumper Wires](#)

[Conductor Repair, Surface Wire Method](#)



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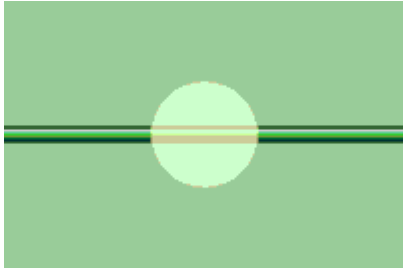
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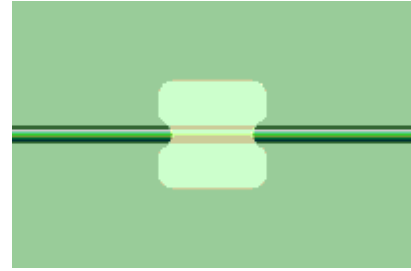
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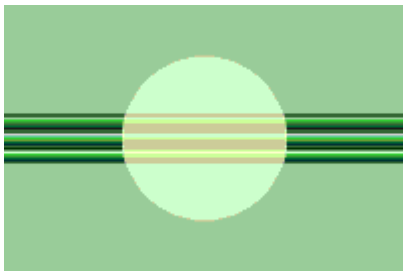
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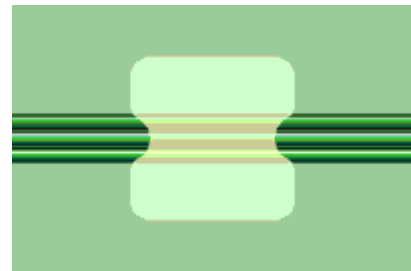
118-2020A Wire Dots, 6.5mm Round
Bonding 30 gauge jumper wire.



118-2020 Wire Dots, 6.5mm Square
Bonding 30 gauge jumper wire



118-2021 Wire Dots, 10.0 mm Round
Bonding (3) 30 gauge jumper wires



118-2022 Wire Dots, 10.0 mm Square
Bonding (3) 30 gauge jumper wires

Physical and Thermal Properties

<u>Property</u>	<u>Typical Value</u>	<u>Unit</u>	<u>Test Method</u>
Peel Strength 72 hrs @ 22°C	84	Oz./in.	ASTM D3330 Modified
Static Shear Strength 72°F (22°C) / 1000g	>10,000	min	ASTM D3654
Tensile Strength (Yield) 72°F (22°C)	>2600	psi	ASTM D2370
Elongation	100	%	ASTM D2370
Thermal Conductivity	0.17	w/m-k	ASTM C518
Coefficient of Thermal Expansion	5.5×10^{-4}	m/m/C	ASTM D696 25-175C

Electrical Properties

<u>Property</u>	<u>Typical Value</u>	<u>Unit</u>	<u>Test Method</u>
Dielectric Strength	1700	volts/mil	ASTM D149
Dielectric Constant 25°C, 1 kHz	3.4	-----	ASTM D150
Dissipation Factor 25°C, 1 kHz	0.018	-----	ASTM D150
Surface Resistivity - Adhesive Layer	$>1 \times 10^{14}$	ohm/square	ASTM D257
Surface Resistivity - Polymer Film Layer	$>1 \times 10^{16}$	ohm/square	ASTM D257
Volume Resistivity - Adhesive Layer	$>1 \times 10^{15}$	ohm/cm	ASTM D257
Volume Resistivity - Polymer Film Layer	$>1 \times 10^{18}$	ohm/cm	ASTM D257
Insulation/Moisture Resistance - Adhesive Layer	$>1 \times 10^{11}$	ohm	MIL-I-46058C (100 VDC 60 sec)
Insulation/Moisture Resistance - Polymer Film Layer	$>1 \times 10^{12}$	ohm	MIL-I-46058C (100 VDC 60 sec)
Voltage Breakdown	3500	volts	-----

Ordering Information

<u>Part No.</u>	<u>Description</u>	<u>Size</u>	<u>Pcs./Pkt.</u>
118-2023	Wire Dots Variety Pack	All 4 Sizes	370 pcs./pkt.
118-2020A	Wire Dots 6.5 mm Round	6.5 mm (.256 in.) Diameter	450 pcs./pkt.
118-2020	Wire Dots 6.5 mm Square	6.5 mm (.256 in.) Diameter	450 pcs./pkt.
118-2021	Wire Dots 10.0 mm Round	10.0 mm (.394 in.) Diameter	210 pcs./pkt.
118-2022	Wire Dots 10.0 mm Square	10.0 mm (.394 in.) Diameter	210 pcs./pkt.

Freight, duties, and value added taxes may increase prices for products outside the US.