

Wire Tape Dots, PCB Wire Tacking Adhesives



Description

Wire Tape Dots make the job of bonding jumper wires neat and fast. They are a wire tacking system consisting of pre-cut shapes of a thin, flexible polymer film coated on one side with a high performance, electronics grade permanent pressure-sensitive adhesive. The result is a highly conformable, high strength bond.

Wire Tape Dots will hold secure after exposure to numerous chemicals including cleaning solutions/sprays, saponifiers, mild acids and alkalies, and will hold secure through a typical circuit board hot water wash.

Features & Benefits

- Very good initial bond strength that increases over 72 hours to stabilize as a high strength reliable bond
- High humidity has a minimal effect on adhesive performance
- Will hold securely after exposure to numerous chemicals including cleaning solutions/sprays, saponifiers, mild acids and alkalies
- Wires will hold securely through a typical PCB hot water wash
- Can be repositioned during and immediately after initial bonding without causing adhesive transfer or loss of bond strength
- Retains its performance and properties for one year from date of purchase when stored at room temperature

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Applications

- Bonding jumper wires used for modifications
- Bonding jumper wires used for conductor repairs

Specifications

■ Temperature Cycling and Bond Strength

Bond strength generally increases after four times through:

4 hours at 70°C

4 hours at -29°C

16 hours at room temperature

■ Temperature Range

Low: -40°C

High short term: 200°C

High long term: 135°C

Thermal Properties

Property	Typical value	Test method
Peel strength 72 hrs at 22°C	84 oz/in	ASTM D3330 Modified

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Property	Typical value	Test method
Static shear strength 22°C/1000g	>10,000 min	ASTM D3654
Tensile strength (yield) 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

Property	Typical value	Test method
Dielectric strength	1700 volts/thou	ASTM D149
Dielectric constant 25°C, 1 kHz	3.4	ASTM D150
Dissipation factor 25°C, 1 kHz	0.018	ASTM D150

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Property	Typical value	Test method
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	–

Other Information

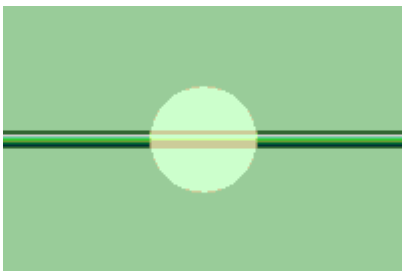
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Our [Technical Bulletins](#) page has links to:

- Technical Bulletin: [Wire Tacking – The Options](#)

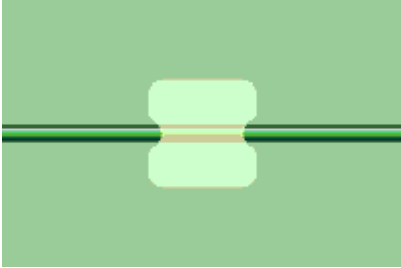
Ordering Information

Illustration shows wire tape dots bonding 30 gauge jumper wire:



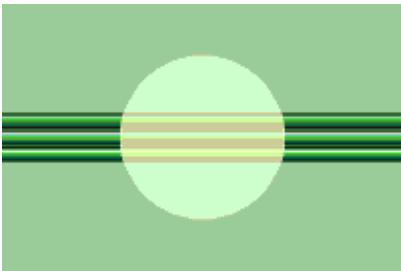
CRC310-0651 Tape Dots
6.5mm round

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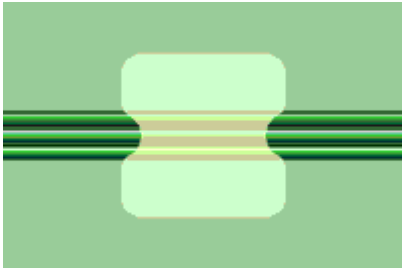
CRC310-0652 Tape Dots
6.5mm square

Illustration shows wire tape dots bonding (3) 30 gauge jumper wire:



CRC310-1001 Tape Dots
10.0 mm round

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CRC310-1002 Tape Dots
10.0 mm square

Part number	Description	Pack Size
CRC310-2100	Wire Tape Dots – variety pack	370
CRC310-0651	Wire Tape Dots – 6.5 mm round	370
CRC310-0652	Wire Tape Dots – 6.5 mm square	450
CRC310-1001	Wire Tape Dots – 10.0 mm round	210

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Part number	Description	Pack Size
CRC310-1002	Wire Tape Dots – 10.0 mm square	210

Next Steps

Our technical team are on hand to discuss your application requirements. [Click here](#) to get in touch.

Find out more information on [how to purchase](#).

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Last updated: August 2020 Version: 4.3

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