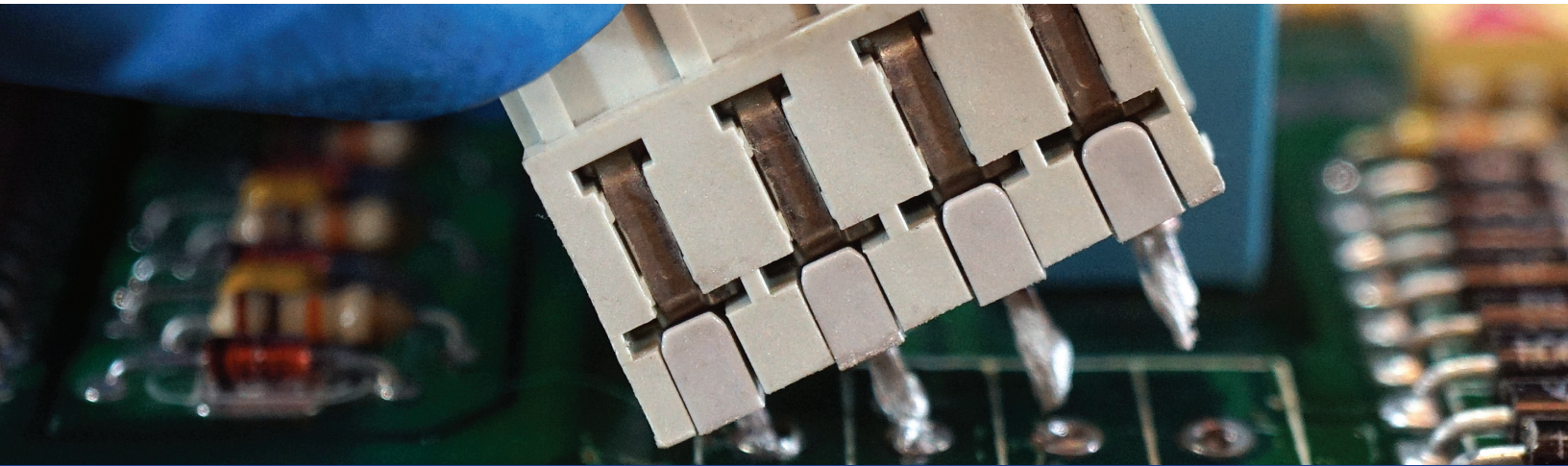


Electrically Conductive Adhesives — 2-Part Epoxy



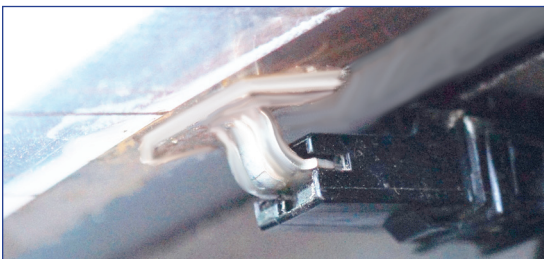
Silver conductive epoxy for the assembly and repair of electronics

Features and Benefits:

- Creates permanent electrical connections
- 1:1 mix ratio
- Excellent electrical and thermal conductivity
- Room temperature storage and long shelf life

Applications:

- Making quick cold-solder repairs
- Creating jumpers, bridging, and gap filling
- Bonding heat sensitive components
- Bonding to conductive polymers
- Bonding to flexible circuits
- Bonding to gold, aluminum, brass, and bronze



We offer a choice of four Electrically Conductive Adhesives

Choose a working time:

- **10 minutes:** good when room temperature cure is required, and quick fixes
- **4 hours:** good for assembly operations and ensuring all silver is efficiently used

And then a conductivity level:

- **High:** provides a cost-effective solution
- **Extreme:** provides the lowest resistance

To select the part number suited to your application:

Conductivity	Working Time	
	10 Minutes	4 Hours
High	8331	8331S
Extreme	8330	8330S

Electrically Conductive Adhesives Comparison Chart

	8330	8330S	8331	8331S
UNCURED PROPERTIES				
Mix ratio by volume	1:1	1:1	1:1	1:1
Mixed density	3.3 g/mL	3.4 g/mL	2.6 g/mL	2.5 g/mL
Viscosity	Thixotropic	Thixotropic	Thixotropic	Thixotropic
CURED PROPERTIES				
Application Parameters				
Working life	10 min	4 h	10 min	4 h
Service cure	5 h	N/A	5 h	N/A
Full cure @22 °C (72 °F)	24 h	Heat cure only	24 h	Heat cure only
Full cure @65 °C (149 °F)	20 min	2 h	15 min	2 h
Electrical Properties				
Volume resistivity	0.001 Ω·cm	0.0007 Ω·cm	0.007 Ω·cm	0.006 Ω·cm
Thermal Properties				
Constant service temperature	-55 to 150 °C	-40 to 150 °C	-55 to 150 °C	-40 to 150 °C
Glass transition temperature (T _g)	53 °C	34 °C	50 °C	34 °C
CTE prior T _g	89 ppm/°C	97 ppm/°C	54 ppm/°C	78 ppm/°C
CTE after T _g	224 ppm/°C	208 ppm/°C	169 ppm/°C	158 ppm/°C
Thermal conductivity @25 °C (75 °F)	1.8 W/(m·K)	2.4 W/(m·K)	1.4 W/(m·K)	1.3 W/(m·K)
Thermal diffusivity @25 °C (75 °F)	1.0 mm ² /s	1.2 mm ² /s	0.9 mm ² /s	0.7 mm ² /s
Specific heat capacity @25 °C (75 °F)	0.6 J/(g·K)	0.6 J/(g·K)	0.7 J/(g·K)	0.8 J/(g·K)
Physical Properties				
Color	Silver grey	Silver grey	Silver grey	Silver grey
Hardness	83D	73D	70D	73D
Tensile strength	13 N/mm ²	9.0 N/mm ²	13 N/mm ²	14 N/mm ²
Compressive strength	36 N/mm ²	36 N/mm ²	39 N/mm ²	65 N/mm ²
Lap shear (aluminum)	5.4 N/mm ²	2.6 N/mm ²	8.0 N/mm ²	4.8 N/mm ²

Refer to TDS for more information. N/A=Not Available.

Available Packaging



6 mL Syringes

8300-19G
8300S-21G
8331-14G
8331S-15G



50 mL Kit

8330-50ML
8330S-50ML
8331-50ML
8331S-50ML



200 mL Kit

8330-200ML
8330S-200ML
8331-200ML
8331S-200ML