

3M Science.
Applied to Life.™

3M™ Bonding Solutions for Electronics

APPLICATION PROFILES

With 3M™ Scotch-Weld™ One-Part Epoxy Adhesives



Electronics Bonding Applications by Device Category



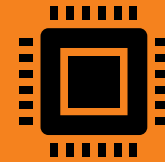
Wearables



Hearables



Smart Home



Others

A person is lying down, wearing large black headphones and holding a tablet computer. They also have a smartwatch on their left wrist. The scene is bathed in a warm, orange light, suggesting a relaxed or sleep environment. The background shows a window with blinds and a lamp.

3M™ Bonding Solutions for Electronics

Wearables



WEARABLES

ELECTRONICS

Borderless Display.

Display size matters. To reduce the bezel width, **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6102 Black** helps enable the encapsulation of Flexible Printed Circuits with low temperature curing.

For additional information, including important safety and warranty information, regarding 3M products, visit [3M.com/electronicbonding](https://www.3m.com/electronicbonding)

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Display encapsulation

Bond plastics to plastics.

Create more compact designs with **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6102 Black**.



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WEARABLES

ELECTRONICS

Safe turns.

Even if most smartwatches use touch displays, users still find it convenient to scroll through menus using a “crown” on the side. This small and important part contains components that need to be bonded carefully. **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** provides a unique combination of optimal viscosity, high bonding strength and low temperature curing to help ensure careful assembly.

Smartwatch crown bonding.

High bonding strength and appropriate viscosity with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.





WEARABLES

ELECTRONICS

Wear it tight.

Fabrics provide a stylish and comfortable fit for smartwatch bands but can be challenging to fasten without help.

To get a tighter grip, these materials are being combined with various plastics – but they need their own secure assembly.

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White provides a combination of excellent bonding strength together with low temperature curing to help protect sensitive materials.



Simplify wristband assembly.

Excellent bonding strength with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.





WEARABLES

ELECTRONICS

Borderless Display.

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Display encapsulation

Bond plastics to plastics.

Create more compact designs with **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6102 Black**.



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A person is lying down, wearing large black headphones and holding a smartphone in their hands. They are also wearing a smartwatch on their left wrist. The scene is bathed in a warm, orange light, suggesting a relaxed or cozy environment. The background shows a window with blinds and a lamp.

3M™ Bonding Solutions for Electronics

Hearables



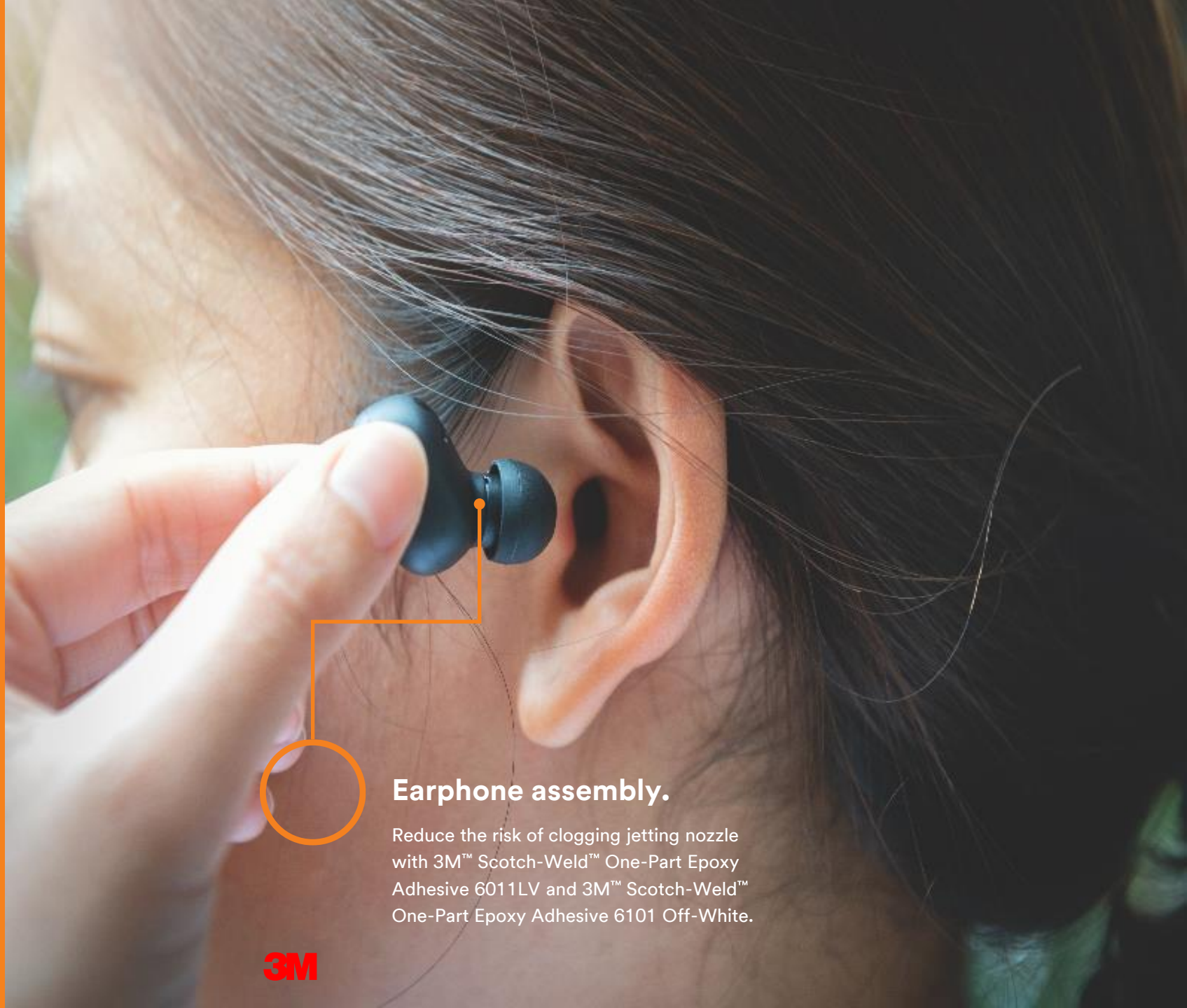
HEARABLES

ELECTRONICS

Small size. Strong resistance.

Wireless earphones are getting smaller and more sophisticated. That is why internal components need to be carefully assembled without coming apart over time. Both **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6011LV** and **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** provide an ideal combination of resistance to chemicals, adhesion to plastics, good jetting performance, fast curing at low temperature, and a long pot life at room temperature.

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Earphone assembly.

Reduce the risk of clogging jetting nozzle with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6011LV and 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.

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HEARABLES

ELECTRONICS

Stay charged.

Earphone chargers are essential to avoid running out of power while listening to your favorite music, binge watching the latest series or participating in your next virtual meeting. **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6011LV** maintains excellent adhesion to difficult-to-bond substrates, including a variety of plastics, and can be dispensed precisely to avoid leaking on other parts.



Bond metal to plastic.

Maintain strong adhesion and precise dispensing with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6011LV.



HEARABLES

ELECTRONICS

Play on.

Foldable, over-the-ear headphones are convenient, comfortable, fashionable and provide great sound – the last thing you'd want is for them to fall apart!

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White delivers strong, reliable bonds to difficult substrates like silicone, for long-term bonding performance and to help ensure a consistent, good fit fold after fold.



Strong, flexible, stable.

High bonding strength to silicone with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.



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3M™ Bonding Solutions for Electronics

Smart Home





ELECTRONICS

On the button.

As a household item made to be used and washed daily, electric toothbrushes come with a unique set of design challenges.

3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White helps keep things water-tight with a strong bond between drastically different substrates, including aluminum and TPU, and is designed to effectively seal electronics to help improve water resistance.



Get a good seal.

High bonding strength to TPU and aluminum with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.





SMART HOME/SECURITY

ELECTRONICS

True security.

Safety and security means more than a clear feed, it means a reliable outdoor camera designed to last. **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** rises to the challenge with a unique combination of strong bonds on rubber and TPU and high shear strength, designed to ensure a robust seal against water and weather. All of this helps keep the system in place, so it can help provide a sense of security for homeowners.



Ensure security.

Help keep your system in place with the high bonding strength of 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.

3M™ Bonding Solutions for Electronics

Others





ELECTRONICS

Power up.

Cell phone power adapters contain complex circuitry and components that require careful assembly to ensure a safe, reliable charge. **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** provides outstanding adhesion to difficult-to-bond substrates (including a variety of plastics), good jetting performance for small parts, and meets UL94 HB flammability requirements. Plus, you can save time and costs with a quick cure at low temperatures, and long-term stability at room temperature storage.

Strong, speedy adhesion.

Get a fast, precise bond with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.





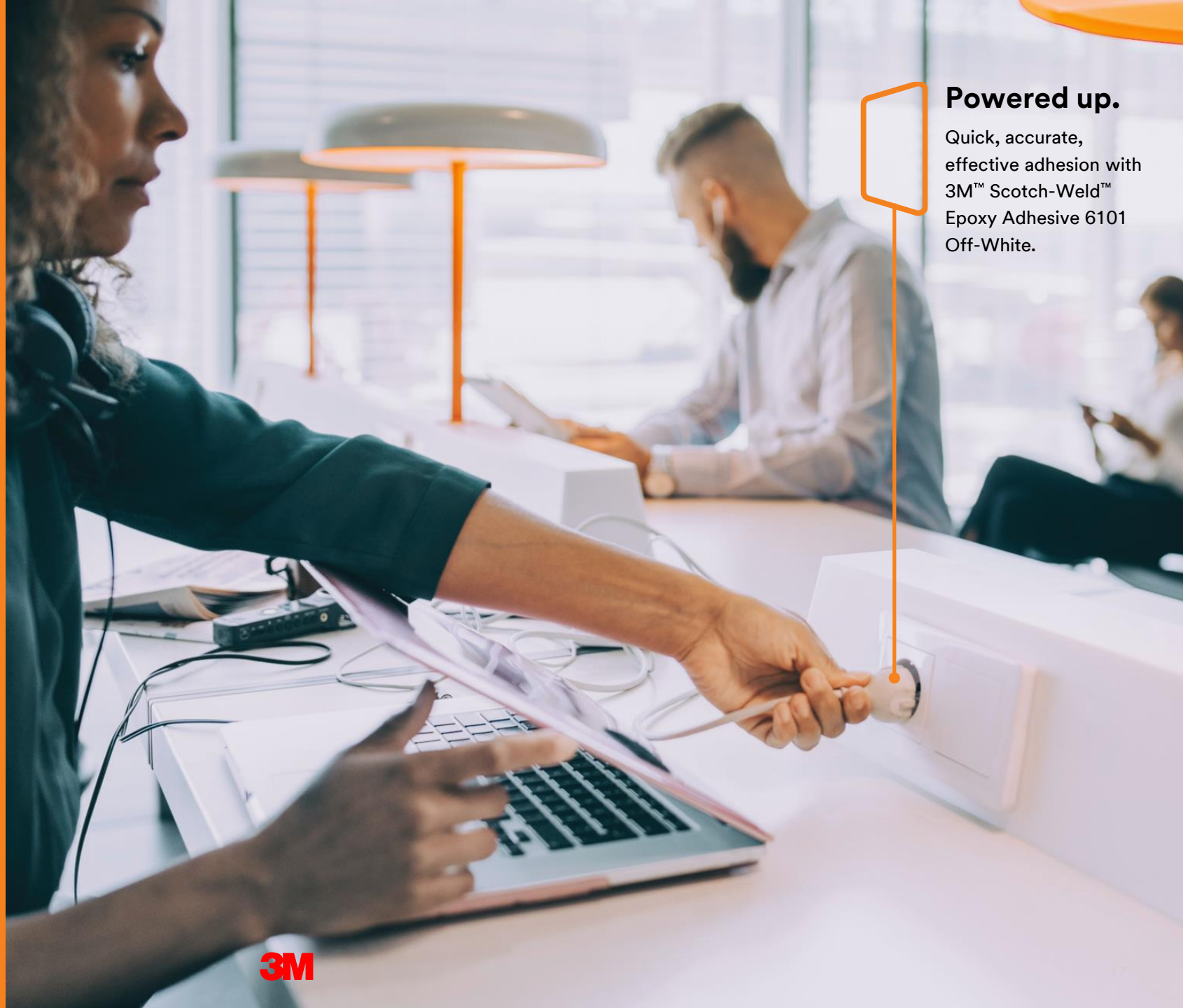
NOTEBOOK PCs

ELECTRONICS

Stable material. Strong adhesion.

Between virtual meetings, regular streaming and online shopping, keeping your laptop charged and working is vital.

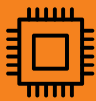
3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White helps you power up with strong adhesion to difficult substrates (including many plastics used in power adapters), good jetting performance for small parts, fast curing times, and long-term stability – all while meeting UL94 HB flammability requirements.



Powered up.

Quick, accurate, effective adhesion with 3M™ Scotch-Weld™ Epoxy Adhesive 6101 Off-White.





OUTDOOR DEVICES

ELECTRONICS

Bonds as brave as you are.

Frigid mountaintops, rough mountain paths, deep beneath the ocean – sports cameras go where the action goes. With strong bonds and high temperature and impact resistance, **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** helps these hardworking cameras stay bonded and in place wherever your adventure may take you.

Weather the storm, capture the moment

Film everywhere with confidence with 3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White.





DISPLAYS

ELECTRONICS

Eye catching displays.

Large displays can create beautiful, eye-catching images. **3M™ Scotch-Weld™ One-Part Epoxy Adhesive 6101 Off-White** provides strong holding power with low temperature curing – helping ensure reliable bonding performance for large displays.



Display with confidence.

Bond large displays with
3M™ Scotch-Weld™ One-Part
Epoxy Adhesive 6101 Off-White.



Thank you.

For more information visit

[3M.com/electronicbonding](https://www.3m.com/electronicbonding)

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