

PIM reduction as next-gen as your network.

Introducing the new 3M™ PIM Reduction Kit 1000

As spectrum utilization increases, it is no longer possible to simply avoid interference caused by passive intermodulation (PIM). Next-generation networks, especially 5G, need stronger protection to help maintain network performance and reliable service for your customers.

The new 3M™ PIM Reduction Kit 1000 is a solution for today's biggest signal integrity challenges. Combining 3M's trusted expertise in EMI/EMC applications and adhesives, this out-of-the-box solution helps you reduce conducted PIM without significantly increasing costs, labor or disruptive downtime.





Protect your network in four easy steps.

The 3M™ PIM Reduction Kit 1000 is made up of four layers, each developed through 3M science:

- 1. 3M™ External PIM Absorber 1000:** Composite material consisting of a carrier resin, magnetic fillers and an acrylic pressure sensitive adhesive (PSA)
- 2. 3M™ Butyl Mastic Tape 2212:** High-tack, self-fusing mastic tape ideal for making water and humidity resistant seals
- 3. Scotch® Super 33+ Vinyl Electrical Tape:** Premium grade electrical tape with excellent resistance to UV exposure and a wide variety of weather conditions
- 4. “Do Not Remove” Label:** Informs technicians that the layers of tape shouldn't be removed during maintenance tasks

Together, these products offer an effective, robust solution for passive intermodulation (PIM) issues while allowing for easier installation with zero site downtime. In addition, it does not impede antenna adjustment and helps you promote the greater signal-to-noise ratio you need to support the higher data rates of 5G networks.

Visit us at [3M.com/PIMreduction](https://www.3m.com/PIMreduction) to learn more and connect with our experts.

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Electronics Materials Solutions Division
3M Center, Building 224-3N-11
St. Paul, MN 55144-1000 USA
1-800-251-8634 phone
651-778-4244 fax
www.3m.com/PIMreduction



Understanding the two types of PIM interference

- ▶ **Conducted PIM:** Induced currents flowing in structural elements generate PIM if a non-linear junction is reached (e.g., antenna mounting brackets, rusty bolts or hose clamps, etc.)
- ▶ **Radiated PIM:** Generated from a non-linear junction directly irradiated by the antenna

Unlike conventional shielding solutions, 3M™ PIM Reduction Kit 1000 helps you protect against conducted PIM interference by absorbing PIM-creating currents before they reach a potential.

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