



# 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.

**Regulatory:** For regulatory information about this product, contact your 3M representative.

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty, Limited Remedy, and Disclaimer:** Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. **3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OR TRADE.** If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

**For industrial/occupational use only. Not for consumer sale or use.**



### 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](https://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.

3M, Scotch, Super 33+ are trademarks of 3M Company. All other trademarks are property of their respective owners. ©3M 2021. All rights reserved. Please recycle. Printed in USA. Issued: 6/21 16784HB 60-5005-0296-2