



An example of a 16A MPE TEMPEST power line filter with customised mounting



Pluggable TEMPEST filters from MPE



An array of MPE TEMPEST EMI filters in a tactical shelter



A low-leakage MPE TEMPEST power line filter for the Royal Navy

MPE TEMPEST filters assigned NATO Stock Numbers

All of MPE's TEMPEST filter products have now been assigned NATO Stock Numbers, unique codes for NATO organisations to reference and use.

Filters for TEMPEST – often regarded as an acronym for “Transient ElectroMagnetic Pulse Emanation Standard” – are countermeasures aimed at preventing eavesdropping on data radiated as signals via conducting lines (such as power, telephone or control line cables). These unintended electromagnetic emanations can be intercepted by hostile intelligence services operating outside the boundary of an enclosure, cabin, building or room and reconstructed by them as intelligible data.

A NATO Stock Number, or National Stock Number (NSN) as it is known in the US and UK, is a 13-digit numeric code, identifying all the “standardised material items of supply” recognised by the 29 NATO member countries including the United States Department of Defense.

In line with NATO Standardisation Agreements (STANAGs), the NSN has come to be used in all treaty countries. Furthermore, many other countries who are not members of NATO, such as Japan, Australia and New Zealand, have adopted the NSN program.

The STANAG Agreement defines processes, terms and conditions for common military and technical procedures and equipment between the member countries of the alliance. Each NATO state ratifies a STANAG and implements it within their own military. The purpose is to provide common operational and administrative systems and logistics, so that one member nation's military may use the stores and support of that of another member.

So this important assigning of NATO Stock Numbers to the entire range of MPE TEMPEST filters is a testament to their world-leading status and their maturity, performance and reliability in a host of army, navy and air force applications. The safeguarding of command-and-control operations, tactical communications and ground stations from ever more sophisticated covert interrogation remains an essential part of defence in the 21st Century.

All the filter components are manufactured and tested at the MPE factory in Liverpool under a stringent ISO 9001 quality regime. And with many thousands of MPE TEMPEST filters currently in service around the world, reliability over long service has become their hallmark.

MPE offers a comprehensive range of TEMPEST power line filters of alternative performance specifications. These extend from 6A to 16A filters, which might be used to treat individual power inlets, up to 3000A filters for the hardening of a main building power supply.

MPE has over several decades supplied TEMPEST products which adhere to the onerous specifications of CESG (the Communications Electronics Security Group at GCHQ) and of the US National Security Agency (NSA) and more recently NATO TEMPEST SDIP-27 and SDIP-29 Standards.

For comprehensive information on MPE's TEMPEST protection filters, please look up www.mpe.co.uk/category/tempest