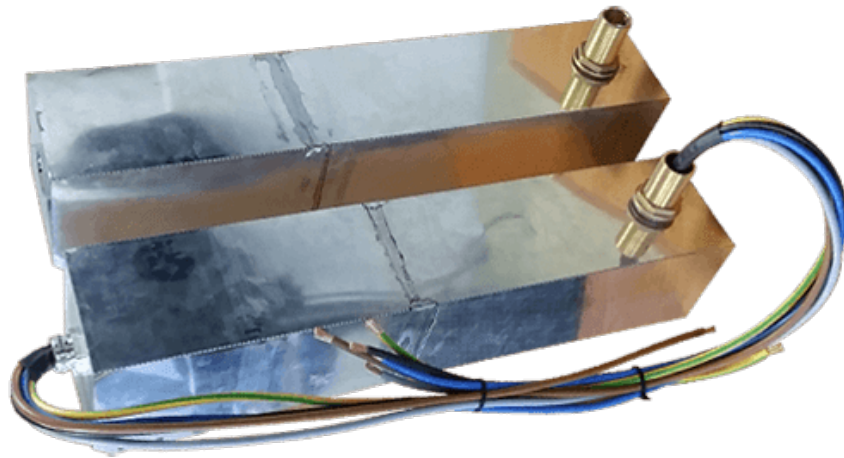


HEMP/NEMP powerline filters



8080 HEMP/NEMP powerline filters

The 8080 HEMP/NEMP powerline filters of Holland Shielding Systems are designed to withstand the PCI test known as E1, E2 and E3 while largely exceeding the shielding effectiveness as stated in MIL-STD-188-125.

Our R&D specialist has designed the filters so they meet the highest shielding demands with an insertion loss of 100 dB @ 9 kHz and 120 dB @ 20 kHz.

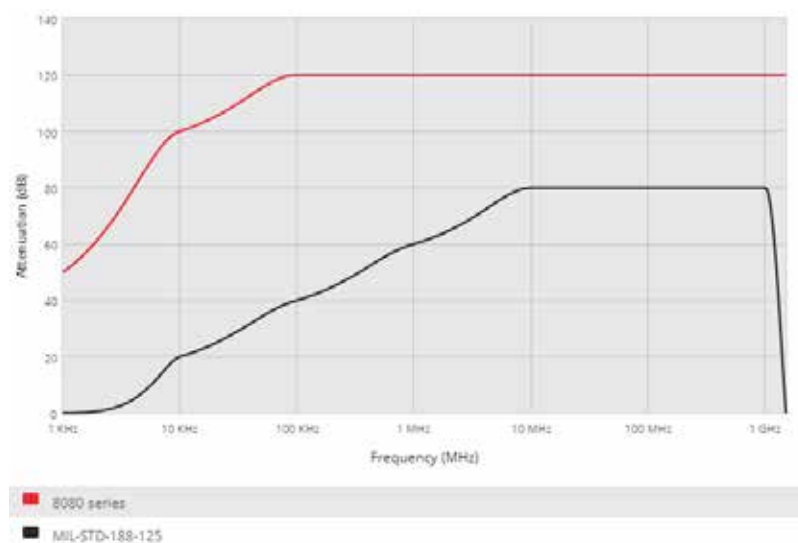
All our filters are tested with our in-house E1/E2 testing facility to confirm that they meet our high quality demands.

As the only powerline filter supplier in the world that has an E1 and E2 pulse tester in-house, we have the possibility to test and supply the filters with a short delivery time.

Features

- 230 V / 440 VAC with 16 A – 200 A current ratings (others on request)
- Single or three phase applications
- Up to 100 dB @ 9 kHz
- Very low residual pulse current
- Quick development and delivery possible with our in-house testing facility

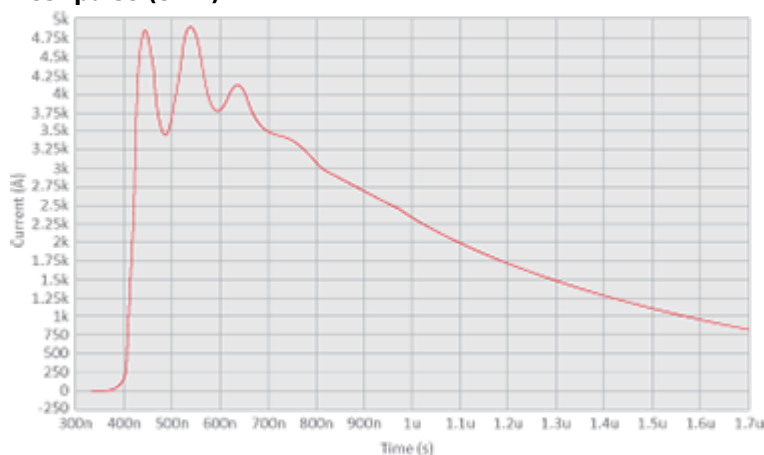
8080 - Shielding performance



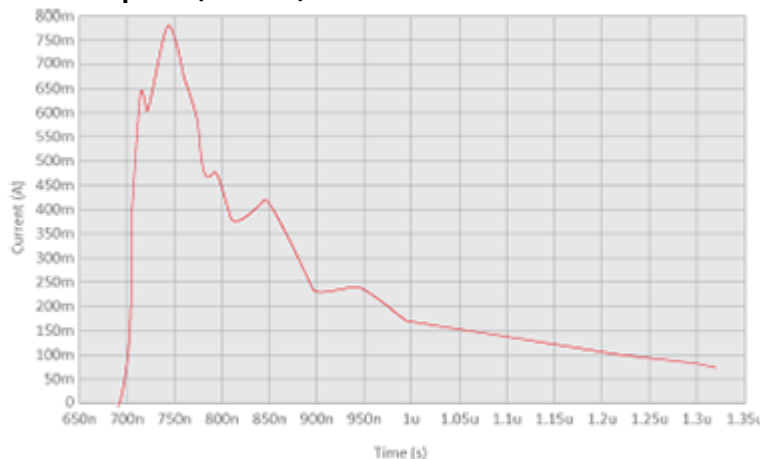
Please note : These values are measured under laboratory conditions. Results may vary in other situations; please read our Guarantee.

HEMP/NEMP powerline filters

Test pulse (5 kA)



Residual pulse (800 mA)



Product range

partnumber	L (mm)	W (mm)	H (mm)	Ir(A)	I leakage	Lines	Voltage	100dB@	120dB@
8080-2-16	720	90	130	16	4.3 A	2	230 V / 440 VAC	9 kHz	14 kHz
8080-2-32	720	90	130	32	4.3 A	2	230 V / 440 VAC	9 kHz	14 kHz
8080-2-63	720	90	130	63	4.3 A	2	230 V / 440 VAC	9 kHz	14 kHz
8080-4-16	770	150	150	16	8.6 A	4	230 V / 440 VAC	14 kHz	27 kHz
8080-4-32	770	150	150	32	8.6 A	4	230 V / 440 VAC	14 kHz	27 kHz
8080-4-63	770	150	150	63	8.6 A	4	230 V / 440 VAC	14 kHz	27 kHz
8080-4-100	770	150	150	100	8.6 A	4	230 V / 440 VAC	14 kHz	27 kHz
8080-4-200	770	150	150	200	10.3 A	4	230 V / 440 VAC	14 kHz	27 kHz

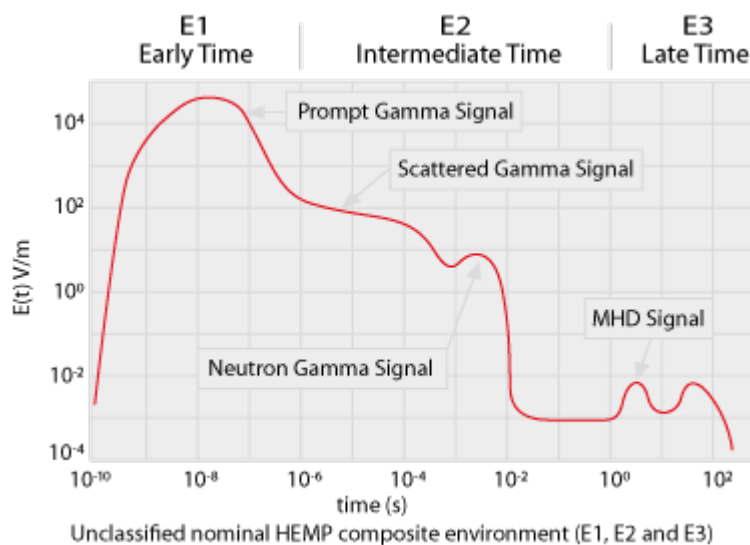
Insertion loss and E1, E2 and E3 pulse testing facility

As the only filter producer that can perform individual pulse testing, we are able to guarantee that your filter will protect your facility and not just on paper. Our filters are tested with our in-house test facility with which we are capable to perform PCI as per E1 (20 / 500 ns 2.5 kA peak) and E2 (1.5 / 4000 µs 250 A peak) test pulses. With our testing facilities we make sure that our filters comply with the highest demands and that the residual currents are within limits of the applicable standards and norms.

HEMP/NEMP powerline filters



The intense electromagnetic pulse (EMP) is generated by the phenomenon called “Compton effect” or “Compton scattering”. The nuclear explosion that generates this transient electromagnetic disturbance is also known as NEMP (Nuclear Electromagnetic Pulse) or HEMP (High altitude Electromagnetic Pulse). The HEMP is typically defined as a combination of three consecutive pulses called early time (E1), intermediate-time (E2) and late-time (E3), as shown in the graph below.



Order Code

Part number	Type
8080	Select an option:
	2 16 : 2 lines 16 Ir
	2 32 : 2 lines 32 Ir
	2 63 : 2 lines 63 Ir
	4 16 : 4 lines 16 Ir
	4 32 : 4 lines 32 Ir
	4 63 : 4 lines 63 Ir
	4 100 : 4 lines 100 Ir
	4 200 : 4 lines 200 Ir

* Note: The red blocks are required