

# DuraPulse Optional Accessories – RF Filter

## RF Filter

Zero phase reactors, (aka RF noise filters) help reduce radiated noise from the inverter wiring. The wiring must go through the opening to reduce the RF component of the electrical noise. Loop the wires three times (four turns) to attain the full RF filtering effect. For larger wire sizes, place multiple zero-phase reactors (up to four) side by side for a greater filtering effect. These are effective for noise reduction on both the input and output sides of the inverter. Attenuation quality is good in a wide range from 500kHz to 10MHz.



## Wiring Method

Wind each wire four times around the core, as shown in diagram A to the right. The reactor must be put at inverter side as closely as possible.

If you are unable to wire as above due to wire size or another aspect of your application, put all wires through four cores in series without winding, as in diagram B to the right.

| RF Filter Selection   |              |                     |          |
|-----------------------|--------------|---------------------|----------|
| Drive Series          | Filter Model | Drawing             | Price    |
| GS10 / GS20(X) / GS30 | RF008X00A    | <a href="#">PDF</a> | \$32.00  |
| GS30                  | RF004X00A    | <a href="#">PDF</a> | \$42.00  |
| GS30 (Frame H-I)      | RF002X00A    | <a href="#">PDF</a> | \$213.00 |

