SHIELDING WIRES

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www.mwignitions.com/pg_datasheets.php

For ultimate noise reduction and difficult installations it's advisable to use shielded twisted pair wiring from CDI to coils. The last page of all our installation instructions give an overview of a typical shielded layout.

To correctly shield the cable it's necessary to ground the internal braiding at one end to a suitable earth point on the vehicle. It doesn't matter which end is grounded however you need to find an 'electrically quiet' location not effected by high current paths.

Connecting an earth wire to the shielding braid can be a difficult task to complete neatly however M&W have available Mil-Spec shield terminators which simplify the procedure. These contain a high temperature heat shrink sleeve, hot melt glue, short Tefzel earth wire and low temperature solder ring.

Best results can be achieved when working with heat shrinkable products by using a quality temperature controlled hot air gun such as those produced by Steinel. These are not overly expensive and will prevent the heat damage caused by cheap guns.

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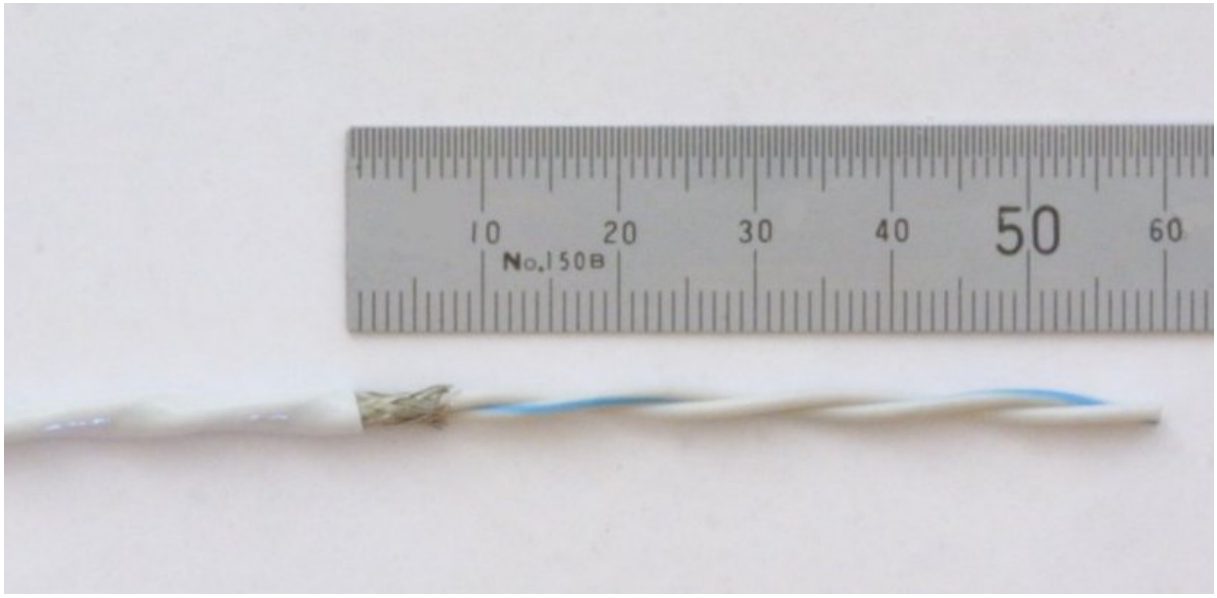
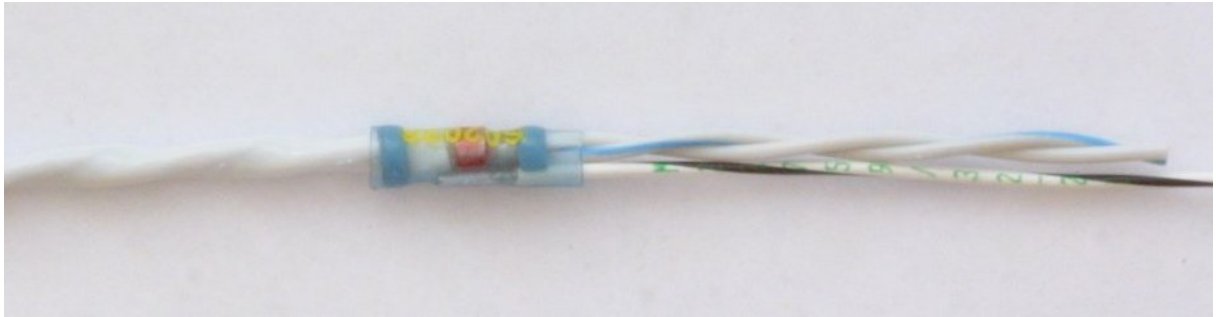
1. Take a suitable length of wire and strip back about 60mm of external sheath exposing the underlying braid.

2. Trim back the braid leaving about 6-7mm.



3. Push the shield terminator over the wire ensuring all braid strands pass through the solder ring. This can be achieved by gently rotating the wire while holding the terminator stationary.



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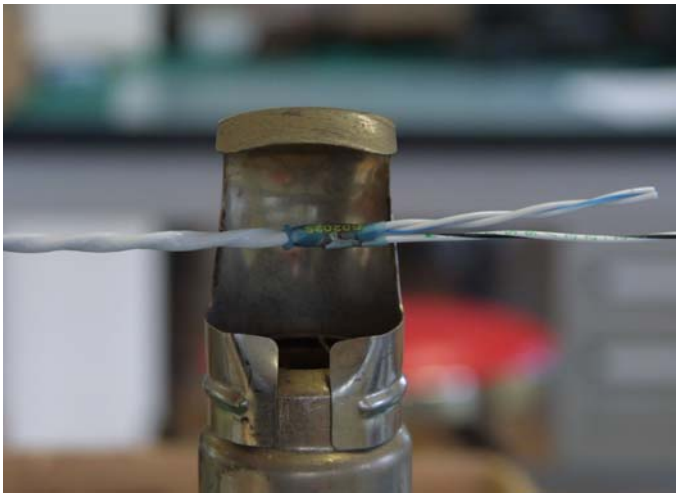
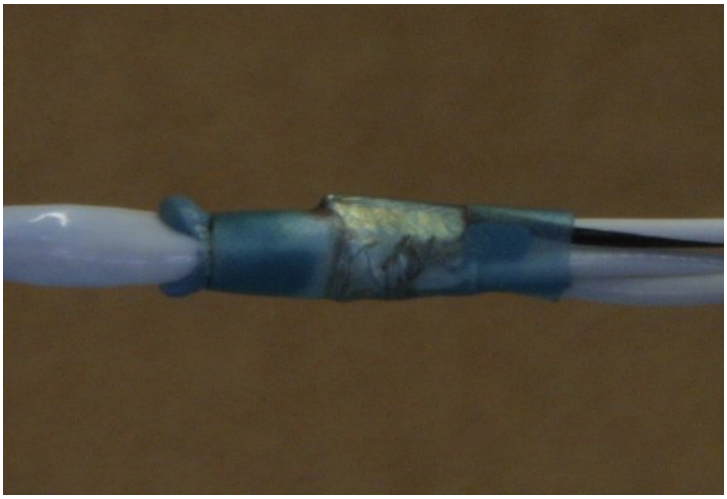
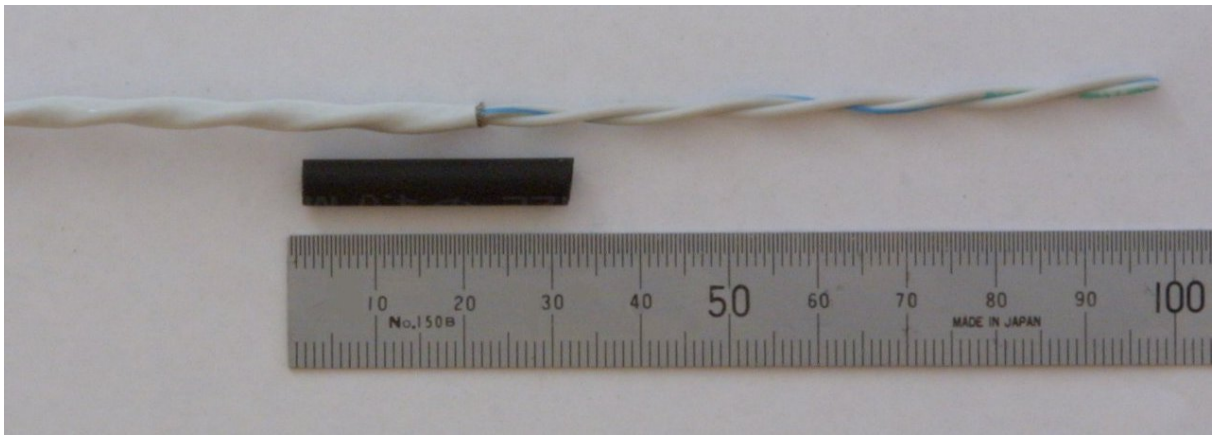
4. Heat shield terminator carefully until the solder ring melts completely and glue is squeezed out both ends sealing the joint. This will usually take an air temperature of about 300 – 350C.





5. To complete the assembly it‘s necessary to seal the other end against ingress of water. Trim sufficient sheath and completely removing the exposed braid. Take a 30mm piece of 4mm glue lined heat shrink and slip this over the wire so that it covers both shielded and non shielded portions equally.



6. Heat the assembly at about 200C until glue is seen to appear at both ends of the joint.

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