

## TECHNICAL NOTE # 219B

**RE: MicroPoint Cable, CE Grounding**  
**Date: December 07, 2006**

In order to meet the most recent European CE standards, the braid of the MicroPoint Cable must be directly grounded to the housing of the PM enclosure. A grounding connector is supplied to secure the braid of the MicroPoint cable directly to the enclosure. This Technical Note provides the necessary steps to install the grounding connector and terminate the MicroPoint cable at the Processor Module. Two connector assemblies and two ferrite beads are included with each Processor Module sold to the international market.

After drilling the hole for the connector, the MicroPoint cable will be fed into the bottom of the Processor Module enclosure. The outer jacket is then stripped and the grounding connector attached to the cable braid. The ferrite bead is installed on top of the connector. The MicroPoint cable is terminated to the Processor Module card as stated in the Installation and Operation Manual. *If armored MicroPoint cable is being used, the outer jacket and the armor will need to be removed to allow mounting of the connector and ferrite bead.*

Below are the steps required to install the grounding connector and termination of each MicroPoint cable. Refer to the Figure 1 on page 2 of this Technical Note.

### 1. Preparing the Enclosure

- a) Remove the lid from the PM enclosure and remove the strain relief block.
- b) Drill a 9.93mm (0.391") hole centered on the inboard punch hole on the bottom of the enclosure.
- c) Remove shavings and burrs inside the enclosure.
- d) Insert the MicroPoint cable through the connector and into the enclosure through the hole.

### 2. Preparing the MicroPoint Cable and Connector

- a) Remove approximately 95mm (3.74") of the outer jacket from the MicroPoint cable.
- b) Disassemble the connector assembly, remove and discard the 2 rubber washers.
- c) Apply dielectric grease along the bottom 40mm (1.57") of the braid.
- d) Slide the washer, collet and connector locknut to the bottom of the braid.

### 3. Assembling the Connector

- a) Using 2 small wrenches tighten the connector locknut to the connector body at the bottom of the braid.
- b) Verify the connector assembly is secured to the braid.
- c) Slide the ferrite bead over the end of the cable allowing it to sit on the connector.

### 4. Terminating the MicroPoint Cable

- a) Trim the braid, aluminum foil, Mylar wrap, dielectric and center conductor to the dimensions in Figure 1.
- b) Terminate the center conductor and both sense wires.
- c) Apply dielectric grease to the top of the braid, aluminum foil, Mylar wrap and dielectric.
- d) Tighten the connector locknut while holding the connector body in place.
- e) Install the strain relief block and secure the enclosure lid.

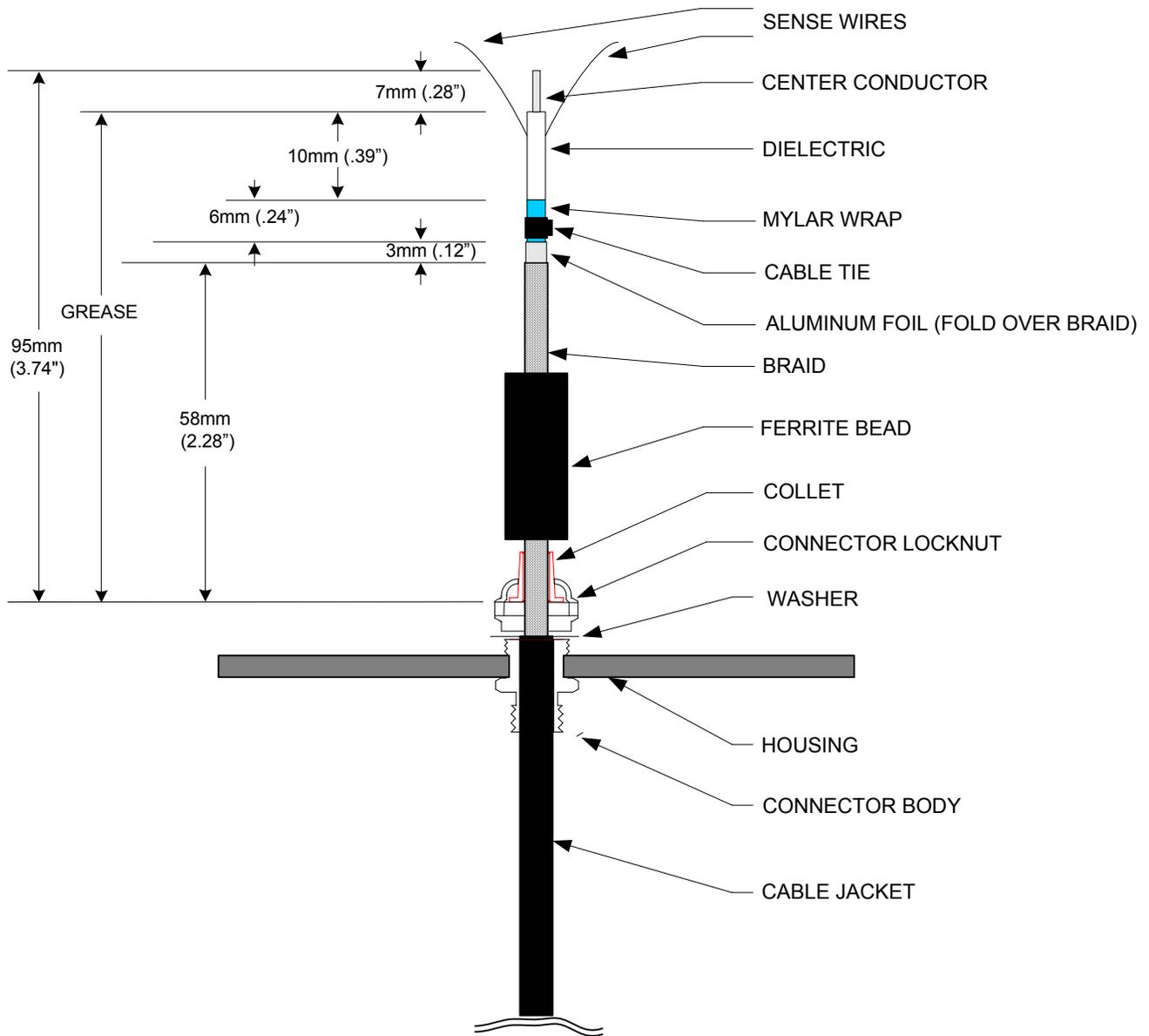


Figure 1  
MicroPoint Cable with Grounding Connector and Ferrite Bead Installed

(Note: All dimensions are approximate)