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DNB Tank Level Transmitter Wiring and Grounding Procedures

The DNB Tank Level Transmitter system works reliably when wiring and grounding connections are made correctly. Please ensure the following when connecting the transmitter.

- Use a two pair shielded cable to connect transmitter (Fig 1).
- Connect cable shields to earth ground at one point in the MCC Panel.
- The cable shield must not be connected to 24(-)
- Do not share the 24(-) line with other devices.
- Ensure the 24(-) to the transmitter is the only negative line back to the MCC
- Isolating the power to the transmitter will help keep the (-) line separate from other system grounds.
- Ensure tank is grounded
- At TEC Connector (Fig 2) at transmitter ensure all three shields are isolated from ground AND each
 other

Fig 1. Two pair shielded cable

Fig 2. Two pair shielded cable with TEC Connector



All three shields need to be isolated from ground and each other.