

ABOUT THIS BULLETIN

Good quality wire and connections are essential for good network performance for all KMC BACnet and KMDigital devices. BACnet devices use MS/TP (master slave/token passing) protocol implemented using the EIA-485 signaling standard. KMDigital devices use a proprietary protocol on an EIA-485 network.

WIRE RECOMMENDATIONS

Use shielded twisted-pair cable with a maximum capacitance of 51 picofarads per foot (0.3 meters) for all network wiring. The following manufacturers' cables (or equivalents) meet the requirements:

- Belden (18 AWG) P/N **82760** (gray jacket).
- Windy City Wire (18 AWG) P/N **052000LC** (white jacket).
- Windy City Wire (22 AWG) P/N **043000-110** (black jacket) or P/N **043000AL** (white jacket).

MORE NETWORK WIRING INFORMATION

For more information about network wiring, see the respective installation guide for your device.

See also the following downloadable documents:

- [Diagnosing a BACnet MS/TP Network With a Multimeter Troubleshooting Guide](#)
- [Avoiding and Troubleshooting Ground Loops Application Guide](#)
- [Planning BACnet Networks Application Note](#)

