

CABLE SPECIFICATIONS FOR INSTALLING ATGs

When you install Franklin Fueling Systems components, use the cable specifications below.

IMPORTANT: Make sure you follow all local and recommended electric codes.

Components that use a shielded, twisted pair cable

- Liquid Level Probes (TSP-LL2, FMP-LL3, FMP-FLX).
- Line Leak Transducer (TS-LSU500).
- Discriminating Magnetorestrictive Sensor (TS-DMS).
- Vapor Pressure Sensor (TS-VPS).
- Vapor Flow Meters (TS-VFM, FMP-VFM).

Cable specifications

- Shielded, twisted pair.
- Wire must be 22AWG (0.326 mm²) or greater.
- Cable jackets must be oil and water resistant.

For cable runs up to 500 ft (152 m)

- Capacitance is rated less than 100 pF/ft (328 pF/m).
- Inductance is rated less than 0.2 μ H/ft (0.656 μ H/m).

Examples of appropriate cables: Belden™ 87760, 87761

For cable runs up to 1000 ft (304 m)

- Capacitance is rated less than 60 pF/ft (196 pF/m).
- Inductance is rated less than 0.2 μ H/ft (0.656 μ H/m).

Examples of appropriate cables: Belden™ 88760, 8760, 8770

For cable runs up to 1500 ft (457 m)

- Capacitance is rated less than 20 pF/ft (65 pF/m).
- Inductance is rated less than 0.3 μ H/ft (0.984 μ H/m).

Example of appropriate cable: Belden™ 89182

FMP and TSP 2- and 3-wire sensors in rigid metallic conduit

- Type THHN, TFFN, or THWN, gas and oil resistant, 18 AWG (0.83 mm²) minimum, 1500 ft (457 m) maximum wire run length.
- When wires are not run through rigid metallic conduit, use an Alpha Wire 58411, 2-conductor cable for standard, 2-conductor leak detection sensors (0.114 in (2.9 mm) OD), and an Alpha Wire 58113, 3-conductor cable for 3-conductor leak detection sensors (0.128 in (3.3 mm) OD).