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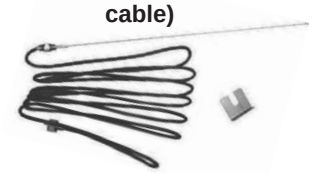
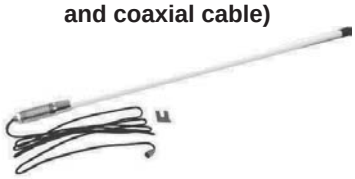
Applications Include: Pumps, Valves, Relays, Conveyors, Grain Augers, Alarm Systems, PLC Activation, Stackers, Automation

Antennas

Choosing the correct antenna and location for your Wireless Switch System is a critical factor in determining how well the system will perform. While there are many antennas on the market, Remote Control Technology can provide the options that work best with our products.

ANTENNAS

8" Short-Range Flexible Whip Antenna for 27 MHz, Part #: 01610	**8" Mid-Range Tuned Antenna for 27 MHz, Part #: 01943 (Requires mounting bracket and ground plane)**	**42" Long-Range Francis Antenna for 27 MHz, Part # 01940 (Requires mounting bracket and ground plane)**
Long-Range Antenna for 151 MHz, Part #: 01939 (Includes mounting bracket and coaxial cable) 	**Short-Range Antenna for 433 MHz, Part #: 01638**	**Long-Range Antenna for 433 MHz, Part #: 01948 (Includes mounting bracket and coaxial cable)** 

ANTENNA INSTALLATION

Successful wireless communication range is achievable in most locations as long as the following installation practices are observed. Remote Control Technology can supply connectors and RG-58 coaxial cable in lengths of 3, 10, 25, 50, and 100 feet (specify when ordering). Your range will be maximized by following these guidelines:

- Mount the antennas at least 40 feet away from electric motors, large power transformers, power lines, VFDs or any equipment that produces ambient electrical noise. Otherwise, the receiver may have trouble distinguishing the FM transmitter signal from this noise.
- When using 27 MHz systems, mount all antennas outdoors. This frequency has great characteristics for long range, but the signals will not go through metal-reinforced concrete walls. For equipment located indoors, run a length of RG-58 coaxial cable from the receiver to an antenna mounted outdoors.
- When using 151 MHz or 433 MHz systems, be sure that the antennas have a line-of-sight (a straight line could be drawn between the antennas without going through any solid objects). These systems are recomended for all indoor applications.
- Mount antennas as high as possible, at least 3 feet away from vertical surfaces and above awnings.
- Use only high-quality cables and connectors, which are available from RCT.
- Do not loop excess coaxial cable into a coil. This will cause a radio frequency choke and reduce your signal range. Loosely route it back and forth in an "S" configuration.

The range of all radio products is dependent on local conditions and antenna selection/location.