INSTRUCTION INVOLVED

SD383, Model 383 Multi-Point Display Station Installation And Service Instruction, issue 2

SUBJECT

Wiring Guidelines

DISCUSSION

This addendum provides additional information concerning the wiring of the case rear terminals. The material in this addendum supplements that in section 2.4 Wiring Guidelines.

- The terminals at the rear of the case contain #6 screws and pressure plates. They are for use with stranded wire or with spring spade tongue or ring tongue crimp-on terminals with insulated barrels.
- Refer to section 2.4 for wire gauge recommendations. Also, consult the wire vendor and the National Electrical Code for additional recommendations and suggestions when selecting wire.

Some wire selection considerations are:
- Current and voltage to be carried
- Total length of each wire run
- Whether wire will be bundled or run singly
- Indoor or outdoor installation
- Temperature extremes
- Exposure to sunlight
- Vibration
- Types of contaminate

- Strip wire end 1/4" to 5/16" or as recommended by the crimp-on terminal manufacturer.

When stripping stranded wire, do not nick or cut away conductor strands.

- When using crimp-on terminals, use a high quality crimping tool recommended by the terminal manufacturer. Carefully inspect the crimped connection for mechanical strength and stray strands of wire that could short to an adjacent screw terminal; conductor should not be visible outside the crimp-on terminal body.

- Insert the stripped wire end or crimp-on terminal under the pressure plate and tighten the terminal screw; the screw must be tightened for a reliable electrical connection; if a crimp-on terminal is not used, wire insulation should butt against the connector, conductor should not be visible.

CAUTION

- Before applying power, carefully inspect and test for the following:

Correct connection to each terminal; each wire should be clearly marked (e.g., color or wire marker)

An exposed conductor or stray wire strand that could be contacted by installation or maintenance personnel, or short to another wire or terminal possibly damaging equipment

Mechanically strong crimp-on connections

Terminal screws are tight ensuring good electrical contact

Wires are properly supported throughout their runs (e.g., clamps, trays).