

Echoflex Installation Guide

Elaho EchoConnect Cat5 Station Termination Kit

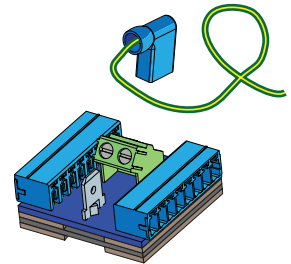
Overview

The EchoConnect Cat5 station termination kit facilitates termination of Category 5 (or equivalent) cable on the EchoConnect communication bus. Echoflex recommends using Belden 1583A (or approved equal) wire. The total combined length of an EchoConnect wire run using Cat5 may not exceed 305 m (1,000 ft). Contact Echoflex Professional Services for guidance when installing a topology-free system.

The included Cat5 termination board includes a Cat5 input and optionally a Cat5 through connection, as well as a two-position screw terminal for connection between the Cat5 termination board and an Elaho control station.

This kit includes the following:

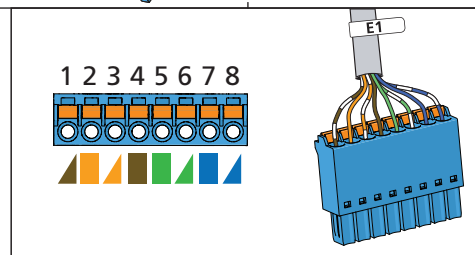
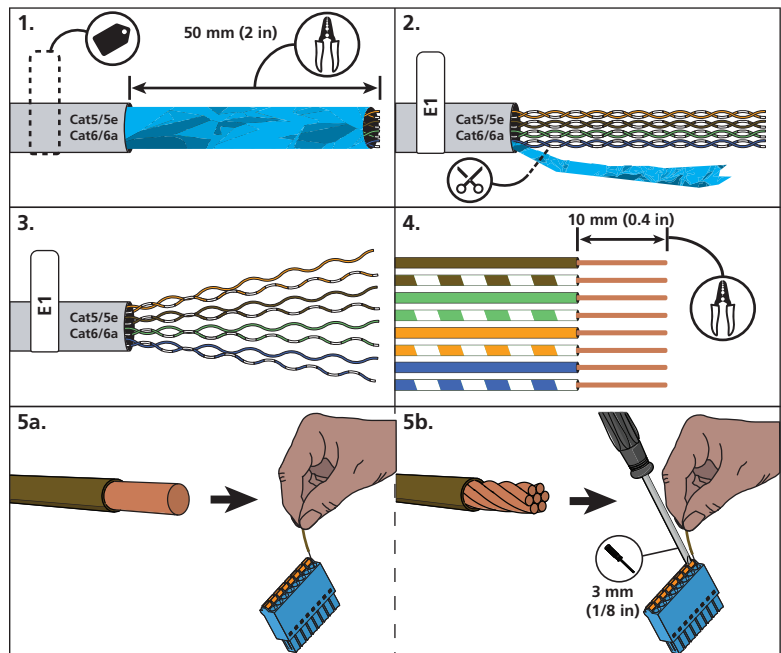
- Cat5 station termination board
- One ESD ground wire pigtail with a FASTON connector attached
- 2 each eight-position connectors (J30243)
- 3 each cable ties



Installation

Prepare Cat5 Cable for Termination

1. Label your cables (i.e. E1) and strip 50 mm (2 in) of the outer cable jacket.
2. Fold or cut the shield back to access the conductors.
3. Fan out the wires while maintaining the twisted pair as close to the connector as possible.
4. Strip the ends of each wire 10 mm (0.4 in).
5. Insert the conductors. Ensure that all eight conductors are terminated.
 - a. For solid core wire, simply insert the conductor.
 - b. For stranded wire, use a 3 mm (1/8 in) small flatblade screwdriver to press down the corresponding button.



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Install the Termination Board

1. Connect the ESD ground wire pigtail.
 - a. Strip 9–10 mm (3/8 in) of insulation from the end of the ground wire pigtail and the Elaho control station ground wire.
 - b. Use one WAGO connector, provided in the Elaho station installation kit, to connect the station ESD ground pigtail and the Cat5 termination board ESD ground pigtail. Open two terminal levers on the WAGO connector and insert each ground wire into a terminal.
 - c. Close the levers onto the wires.
 - d. Install the FASTON connector to the receptacle on the Cat5 termination board.
2. Connect EchoConnect wiring.
 - a. Strip 9–10 mm (3/8 in) of insulation from the end of the EchoConnect power pigtail (provided with the station).
 - b. Loosen the two-position screw terminals on the Cat5 termination board.
 - c. Insert the white wire (typical) into terminal 1 (identified with a + symbol and an arrow on the board) and the black wire into the remaining terminal.
 - d. Secure the screws firmly onto each wire.
 - e. Connect the other end of the EchoConnect pigtail (two-position connector) to the two-pin receptacle on the Elaho station.
3. Connect the Cat5 input connector (and optionally the output connector) to the Cat5 termination board.
 - a. Insert the connector with prepared data input cable from the station bus into the receptacle on the Cat5 termination board.
 - b. Insert the connector with prepared output cable into the remaining Cat5 receptacle on the Cat5 termination board.
4. Remove the protective backing from the mounting tape and secure the termination board to the inside of the station back box.