

Excel 10 FTT/LPT 209541B TERMINATION MODULE



INSTALLATION INSTRUCTIONS

BEFORE INSTALLATION

E-Bus Free Topology Transceiver (FTT)/Linked Power Transceiver (LPT) networks require termination. Depending on the network topology, one or more FTT/LPT Termination Modules may be required, see Fig. 1. If an FTT Repeater or a LPT device is required in the network, their on-board terminators can be used in place of the 209541B Termination Module. Refer to the *E-Bus Wiring Guidelines*, form 74-2865, for complete rules on network topology and termination module locations. Refer to the *Q7740A,B FTT Repeater Installation Instructions*, form 95-7555, for information on enabling the on-board network terminators. FTT networks are very flexible and convenient for installation and maintenance. However it is imperative to carefully plan the network layout, and create and maintain accurate layout documentation.

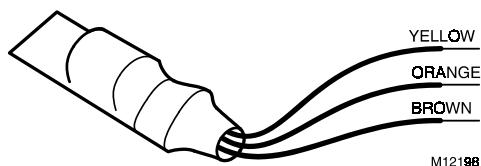


Fig. 1. 209541B FTT/LPT Termination Module.

INSTALLATION

The FTT/LPT Termination Module can be attached to the network at a controller node (the easiest place); In a wall module that is attached to standard utility junction box (the module will not fit in a 60 mm junction box); At a wiring junction (using wire nuts). See Fig. 6 when connecting two wires at a controller or wall module terminal. If the termination module must be located at a surface mounted wall module, and does not fit inside the wall module housing, extend a pair of E-Bus wires from the wall module back to the nearest junction box or controller, and wire in the termination module. The module has three lead wires, but only two are attached to the E-Bus network. To install the termination module, connect the brown and yellow wires to the E-Bus when the network requires *single termination*; connect the brown and orange to the E-Bus when the network requires *double termination*. In either case, always cover the unused wire with a wire nut to prevent potential grounding problems. As with other E-Bus connections, polarity is not important. Fig. 2 shows the module attached to typical FTT/LPT network topologies for a *single termination*.

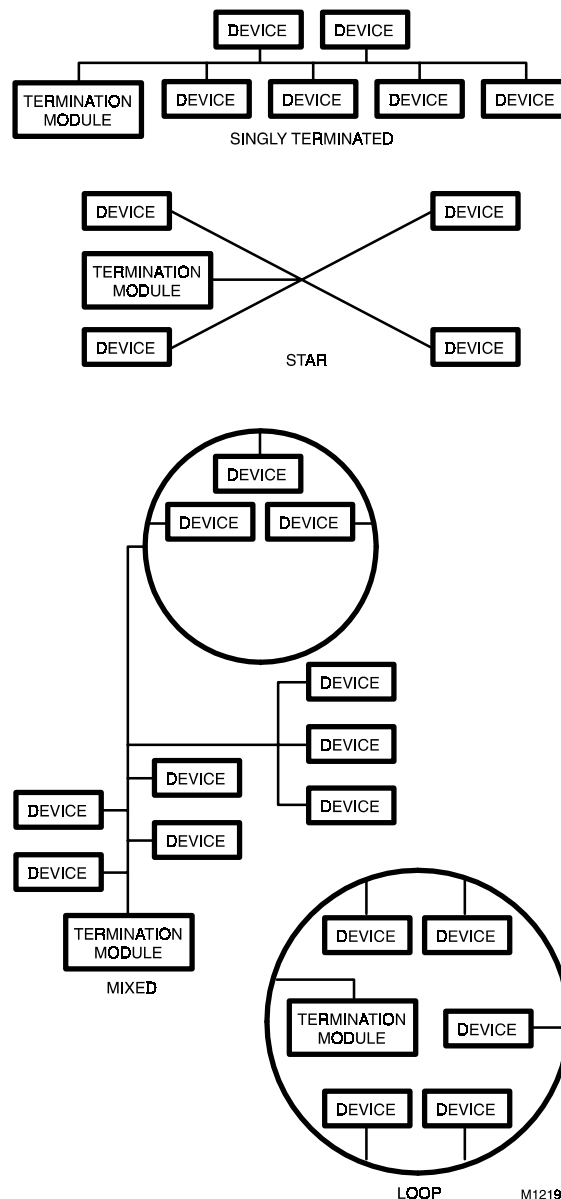


Fig. 2. FTT/LPT termination module wiring for *single termination* network topologies.



Fig. 3 shows the physical connection of the module for a single termination network. Fig. 4 shows the modules attached to a typical FTT/LPT network for a *double termination*. Fig. 5 shows the physical connection of the modules for a double termination network. Double termination is only applicable when a network is wired in a daisy-chain topology and the total wire length is greater than 1640 ft (500m). Refer to the *E-Bus Wiring Guidelines*, form 74-2865, for complete rules on network topology and termination module locations.

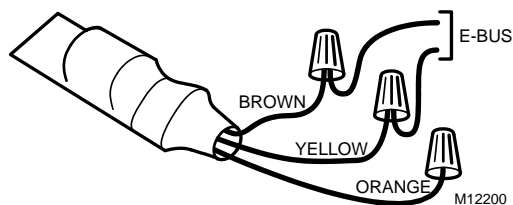


Fig. 3. Physical connection of module for a *single* termination network.

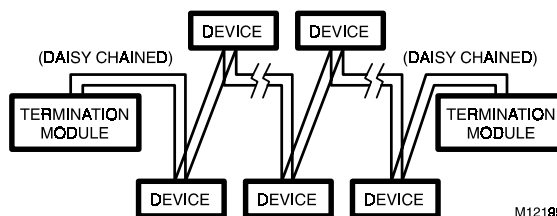


Fig. 4. FTT/LPT termination module wiring for *double* termination network topology.

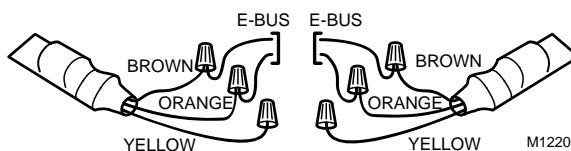


Fig. 5. Physical connection of modules for a *double* termination network.

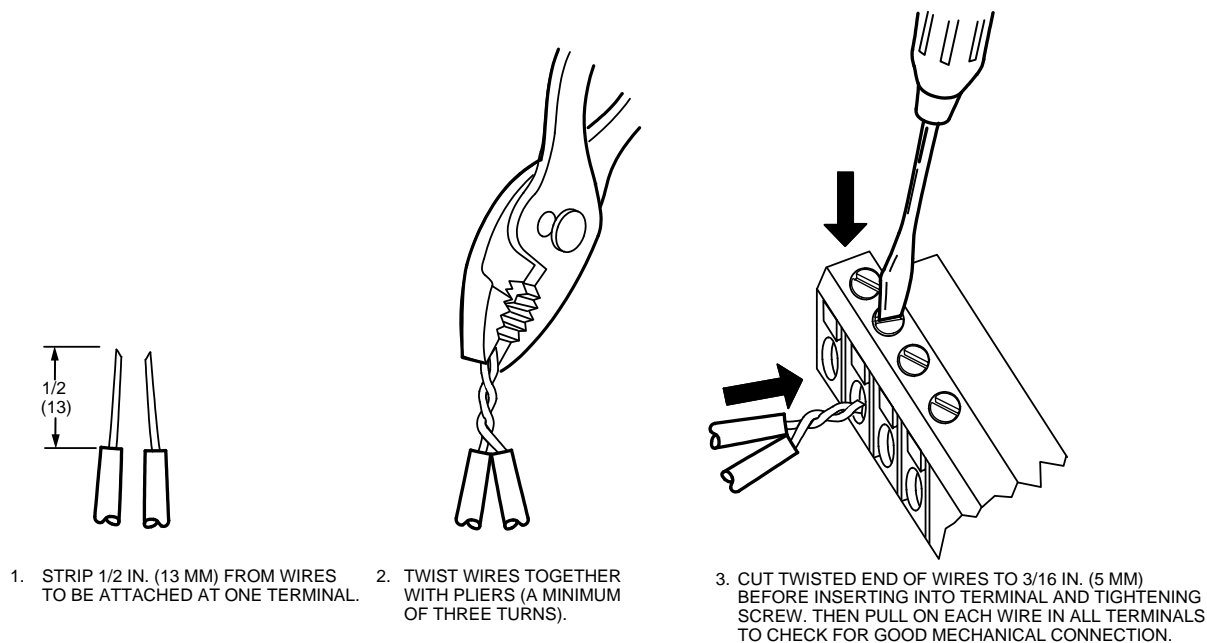


Fig. 6. Attaching two wires at controller or wall module terminals.

NOTE: The termination module is outside of the scope of the EMC directive and therefore does not require CE marking. This is because the termination module is an RC filter (with only passive components).

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