

EZ-Cabling Grounding Methods for Armoured Cable

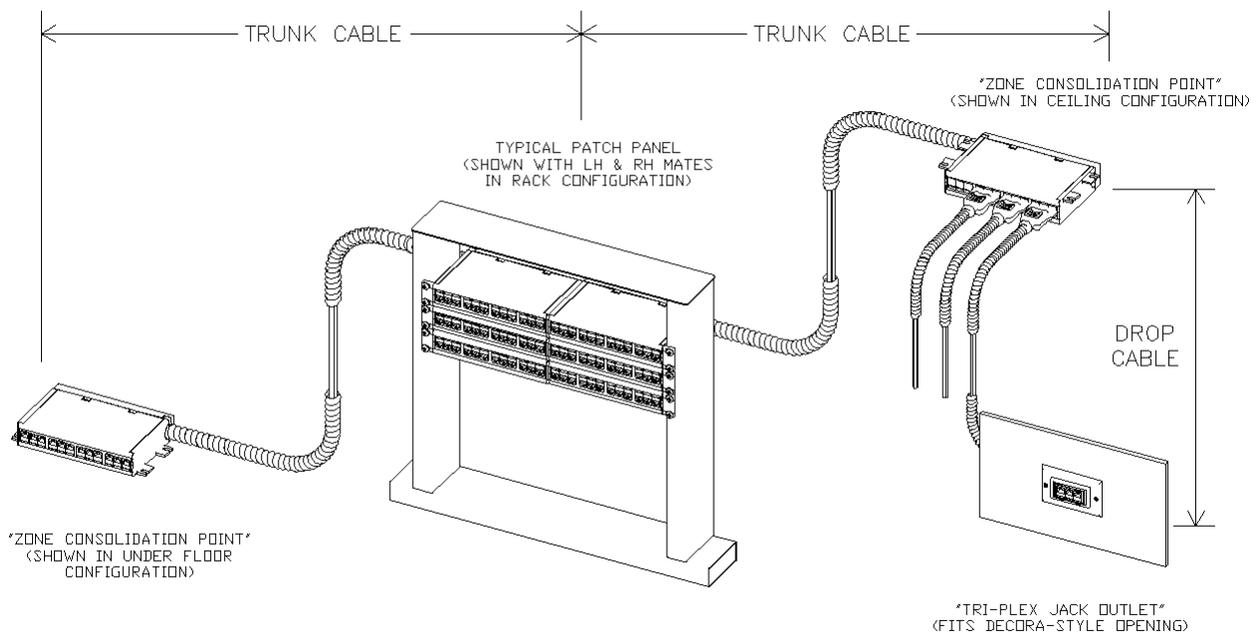
General

Ensuring optimal and trouble-free performance of your network cabling investment requires that proper grounding and bonding methods be followed.

ANSI-J-STD-607-A-2002 (formerly ANSI/EIA/TIA-607) *Commercial Building Grounding (Earthing) and Bonding Requirements For Telecommunications* represents the industry standard for effective grounding methods.

It is with the combination of industry experience, consultation with telecommunications experts and the joint ANSI/EIA/TIA standard, that Electec have produced the following guidelines for proper and effective grounding of EZ-Cabling.

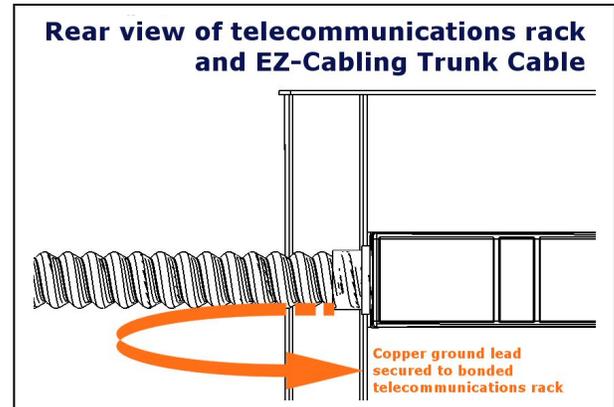
System Overview



Cat 5e and Cat 6 UTP Systems

The grounding requirement of an unshielded twisted pair (UTP) EZ-Cabling system is exclusive to the steel armour surrounding the Trunk Cable. It is recommended that the armour be grounded, at one end only, to reduce unwanted noise. Providing more than one path to ground may lead to unwanted ground loops and noise.

The recommended method of grounding UTP EZ-Cabling Systems is to secure the ground wire at the Patch Panel end of the Trunk Cable to the metal telecommunications equipment rack, which in turn is bonded to a typical grounding busbar.

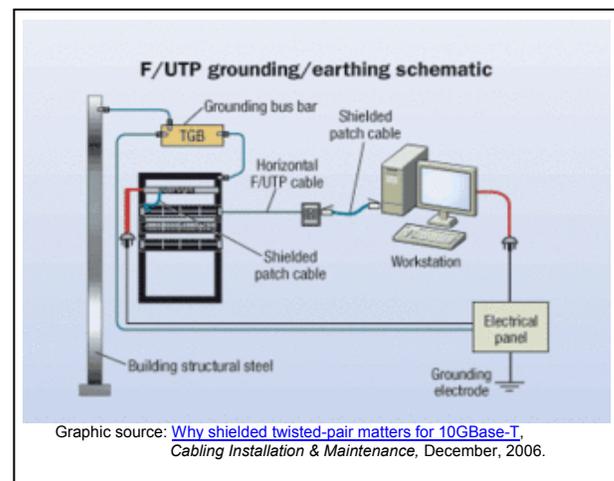


Cat 6A FTP (10-Gig) System

The foiled twisted pair (FTP) EZ-Cabling systems provide a shielded, alien-crosstalk free system that enables superior 10-Gig performance. There are two drains to concern ourselves with when grounding and bonding these systems.

The first drain is the grounding of the steel armour. Similar to the UTP systems above, the armour must be grounded, at one end only, to reduce unwanted noise. Providing more than one path to ground may lead to unwanted ground loops and noise.

The recommended method of grounding the steel armour is to secure the ground wire at the Patch Panel end of the Trunk Cable to the metal telecommunications equipment rack, which in turn is bonded to a typical grounding busbar.



The second drain involves the drain wires located inside the jacket of the FTP cable itself. This drain is carried to ground by the shielded jacks installed in the Trunk Cable and the shielded patch cables that are recommended to be used between any network equipment/switch and EZ-Cabling. Through shielded patch cables and bonded equipment is the recommended path to ground.

Design Assistance and Technical Support for **EZ-Cabling** and all other Electec products

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