

Informative Annex

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Annex 33A

(Informative)

Cabling Guidelines

DTE power via MDI is intended to operate over a 4-pair unshielded twisted-pair (UTP) balanced cabling infrastructure as described in ISO/IEC 11801-2000. Although initial implementations are expected to make use of this clause to provide powered IP telephones, the clause is intended to address a much larger family of low power devices whose applications require connection to local area networks.

It is expected that in the future as building cabling infrastructures begin to support more building automation systems (BAS), additional cabling guidelines will be implemented. BAS systems are used for controlling building systems such as fire alarm, security and access control (e.g., closed circuit television), and energy management systems (e. g., heating, ventilation and air conditioning and lighting control). One such standard that is to be published to support these systems with a cabling infrastructure in EIA/TIA is the Building Automation Cabling Standard for Commercial Buildings. This Standard will specify a generic cabling system for building automation systems used in commercial buildings for a multi-product, multi-vendor environment. The purpose of the Standard is to enable the planning and installation of a structured cabling system for building automation system applications that are required for use in new or renovated construction of commercial buildings. It is significantly less expensive to integrate all of the major voice, data, and BAS applications by utilizing a fully integrated structured cabling infrastructure.

For planning purposes, a sufficient number of horizontal cabling links should be provided for voice, data, and building automation services over the average floor space. It is recommended that a minimum of two 4-pair outlets be provided per work area as specified in the current standards in ISO/IEC and TIA/EIA.