



TIA/EIA-568-A-4

Production Modular Cord NEXT Loss Test Method and Requirements for Unshielded Twisted-Pair Cabling

TIA/EIA-568-A-4 defines a generic and non-destructive methodology for NEXT loss testing of modular plug cords. NEXT loss performance requirements for Category 5 modular plug cords, when measured with the particular test head specified in the Standard, are provided. Note that although the methodology may be used as the basis for determining the minimum NEXT loss performance requirements of other categories of modular plug cords, at present, the Standard does not define a test head or specific test limits for Category 5e or Category 6* patch cords. The methodology described in the Standard contains the detailed NEXT loss calculations (which are based upon patch cable NEXT loss, test head NEXT loss, and cable and connector Attenuation contributions) for the determination of the NEXT loss limits for any category patch cord and suitably designed test head.

TIA/EIA-568-A-5

Transmission Performance Specifications for 4-Pair 100 Enhanced Category 5 Cabling

'568-A-5 specifies enhanced Category 5 (Category 5e) performance requirements. These requirements are recommended for new Category 5 cabling installations and are expected to become the de facto minimum standard for Category 5 cabling. This document addresses the minimum Equal Level Far-End Crosstalk (ELFEXT) and Return Loss requirements necessary to support developments in applications technology and defines the minimum performance needed for a worst case four-connector channel to support applications that utilize full-duplex transmission schemes, such as Gigabit Ethernet. To ensure additional crosstalk headroom for robust applications support, this document also specifies Power Sum performance requirements for Category 5e cables and cabling.

Addendum 'A-5 is a normative document and, unlike TSB95, it provides mandatory requirements, not recommendations.

*Category 6 industry standards are currently under development