

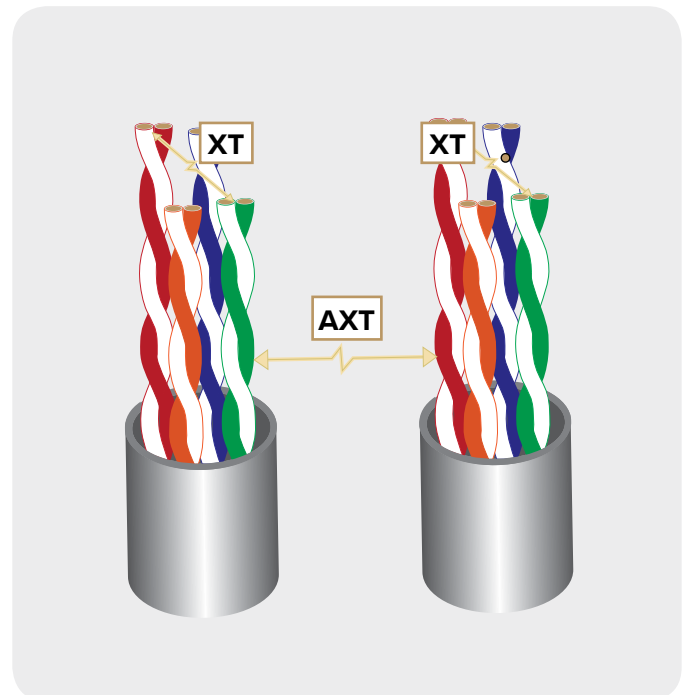


ALIEN CROSSTALK - DEFINED, EMPHASIZED & ACKNOWLEDGED



Alien crosstalk (AXT) is a noise created in copper cable's pairs or connector's circuitry by all combined external electromagnetic (EM) noise sources (in contrast to inter-pair crosstalk (XT) such as NEXT/ACRF that is interference between pairs within the same cable). In common network environments in the absence of high-power external EM sources, the overwhelming portion of AXT is generated by other cables in the vicinity, that's why AXT is often called "inter-cable interference".

Controlling AXT is especially critical for normal functioning of applications using all four pairs in duplex mode for transmission simultaneously (e.g., 10GBASE-T and other "multi-gigabit" techniques) when inter-pair XT can be effectively cancelled by receivers since they "know" what their "native" transceivers send down the line, while AXT is unpredictable since it's coming from "unknown" ("alien") sources.



Eliminating/reducing AXT, The following methods are commonly used: spatial separation of cables & connectors, screening (shielding).

Contact our Technical Support today for any additional questions:

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