
Separation From Sources of Interference

Unshielded data cables should not be installed near sources of electromagnetism. There is a standard that specifies these distances for structured data cabling systems. EIA/TIA-569, the cabling pathways standard, specifies the following Minimum Separation Distance from Power Source at 480V or less:

Condition	< 2kVA	2-5kVA	< 5kVA
Unshielded power lines or electrical equipment in proximity to open or non-metal pathways	5 in.	12 in.	24 in.
Unshielded power lines or electrical equipment in proximity to grounded metal conduit pathway	2.5 in.	6 in.	12 in.
Power lines enclosed in a grounded metal conduit (or equivalent shielding (in proximity to grounded metal conduit pathway).		6 in.	12 in.
Transformers and Electric Motors	40 in.	40 in.	40 in.
Fluorescent lighting	12 in.	12 in.	12 in.