

Recommended Cabling Practices

Do's:

- Terminate each horizontal cable on a dedicated telecommunications outlet.
- Locate the main cross-connect near the center of the building to limit cable distances.
- Maintain the twist of horizontal and backbone cable pairs up to the point of termination.
- · Tie and dress horizontal cables neatly.
- To avoid stretching, pulling tension should not exceed 110N (25 lbf) for 4-pair cables.
- Installed bend radii shall not exceed:
 - 4 times the cable diameter for horizontal LITP cables.
 - 10 times the cable diameter for multi-pair backbone UTP cables.
- Horizontal cables should be used with connecting hardware and patch cords (or jumpers) of the same performance category or higher.
- · Avoid cable stress, as caused by:
 - cable twist during pulling or installation
 - tension in suspended cable runs
 - tightly cinched cable ties or staples
 - tight bend radii

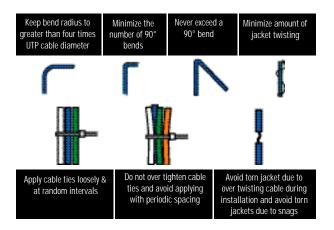
Don'ts:

- Do not use connecting hardware that is of a lower category than the cable being used.
- Do not create multiple appearances of the same cable at several distribution points (called bridged taps).
- Do not over-tighten cable ties, use staples, or make sharp bends with cables.
- Do not place cable near equipment (i.e. generators, transformers, engines, medical equipment, etc.) that may generate high levels of electromagnetic interference.
- Do not exceed 90° bend.

Important Note: Installed UTP cabling shall be classified by the least performing component in the link.



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UTP Connector Terminations

- Pair twists shall be maintained as close as possible to the point of termination.
- Untwisting shall not exceed 75mm (3 in.) for Category 3 links and 13mm (0.5 in.) for Category 5, Category 5e, and Category 6* links.
- Connecting hardware shall be installed to provide well-organized installation with cable management and in accordance with the manufacturer's guidelines.
- Strip back only as much jacket as is required to terminate individual pairs.
- To maintain cable geometry, remove the cable jacket only as much as necessary to terminate the cable pairs on the connecting hardware.

^{*}Category 6 industry standards are currently under development