Category 5E Installation. Do's And Don'ts.

cables in a "Star" configuration. That is to say that they all emanate from,
"homerun" to, one central location, known as the wiring hub. Visualize a wheel, all of the spokes, start from on central point, known as the hub of sel.
cable runs to a maximum of 295 feet (for each run).
n the twists of the pairs all the way to the point of termination, or no more 5" (one half inch) untwisted
more than 1" of jacket when terminating
radual bends of the cable, where necessary. No sharper than a 1" radius. the roundness of a half-dollar)
ne cable to be sharply bent, or kinked, at any time. This can cause nent damage to the cables' interior.
he cables neatly with cable ties. Use low to moderate pressure.
ghten cable ties. We recommend Hook and Loop (Velcro) Cable Ties for rcial installations.
onnect cables (where necessary), using cat 5E rated punch blocks and nents.
or bridge category-5E cable at any point. There should never be multiple ances of category 5E cable.
to moderate force when pulling cable.
essive force when pulling cable.
ole pulling lubricant for cable runs that may otherwise require great force to (You will be amazed at what a difference the cable lubricant will make)
or any other lubricant, not specifically designed for cable pulling. Oil, or abricants, can infiltrate the cable, causing damage to the insulation.
at 5E cables as far away from potential sources of EMI (electrical cables, rmers, light fixtures, etc.) as possible.
les to electrical conduits, or lay cables on electrical fixtures.
proper cable supports, spaced no more than 5 feet apart.
cable that is supported by the ceiling tiles (this is unsafe, and is a violation building codes).
label every termination point. Use a unique number for each cable at. The idea here, is to make moves, adds, changes, and troubleshooting as as possible.
test every installed segment with a cable tester. "Toning" alone, is not an ble test.
install jacks in such a way as to prevent dust and other contaminants from on the contacts. The contacts (pins) of the jack should face up on flush d plates, or left, right, or down (never up) on surface mount boxes.
leave extra slack on the cables, neatly coiled up in the ceiling or nearest ed place. It is recommended that you leave at least 5 feet at the work ide, and 10 feet at the patch panel (wiring hub) side.
nstall cables "taught" in the ceiling, or elsewhere. A good installation have the cables loose, but never sagging.
use grommets to protect the cable where passing through metal studs or g that can possibly cause damage to them.
either 568A or 568B wiring standard, before you begin your project. Wire s and patch panels for the same wiring scheme (A or B).
BA and 568B wiring on the same installation.
ples on category-5E cable that crimp the cable tightly. The common T-18 to cable staples are not recommended for category 5E cable. The T-59 to staple gun is ideal for fastening cat5 & 6 and fiber optic cabling as it of the put any excess pressure on the cable.
obey all local, and national, fire and building codes. Be sure to "firestop" all that penetrate a firewall. Use plenum rated cable where it is mandated.