

Why are twisted pair cables used in electric power distribution systems?

I'm an Electrical Engineer, and understand how a twisted pair of wires can be used to reduce noise in the presence of magnetic fields. However, I recently noticed the power company replacing the cables on a high voltage transmission system with a twisted pair of cables.

Do power companies use twisted cables?

However, I recently noticed the power company replacing the cables on a high voltage transmission system with a twisted pair of cables. The top most ground cable is still a single cable, but they now use two cables twisted in a pair for each of the 3 power cables as shown here. Why do they use these types of cables?

How do twisted wires work?

These use air insulation between the voltages, and the twisted pairs must carry the same voltage on each conductor of the pair. Bear in mind that 30 years ago copper was cheap, manufacturing time/complexity was expensive. The single cable lines being replaced were aluminum, not copper, so that wouldn't seem to be a factor.

Where do Twisted Wires connect?

Also evident in that previous photograph is the dual-level connection points on the left-hand side of each terminal block. Two pairs of twisted signal conductors connect on the left-hand side of each terminal block pair, where only one twisted pair of wires connects on the right-hand side.

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The National Electrical Code (NEC) requires that CT wires be run in conduit (raceway). Metallic conduit functions as a shield but if using PVC, shielded twisted-pair is recommended. If the distance is short, ...

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