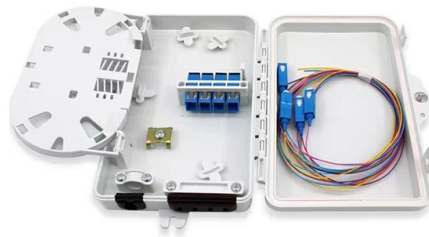


# Can fiber optic cables not be run through conduits



## Overview

New fiber lines can be installed to pass through empty conduits if the bandwidth is needed in the future, thus no new path needs to be trenched. Also, conduit makes the replacement of cables easier when an existing line has been damaged or requires changing to a line. The existing 2" conduit contains 4x 1/0 XLPE cable (rated for direct-burial), so I plan on pulling outdoor rated, non-metallic fiber through the same conduit. My original plan was to trench new conduit and run CAT8, but given that the existing run is all "customer side" and installed by the former. An important decision-making factor to consider is whether or not to duct fiber optic cable directly or encase the cable in a conduit. Having outlined the two strategies, one can easily note some advantages and disadvantages of each of the approaches. The idea is to use a 10 Gbit/s connection. We are building and are currently framing. Outdoor cable may be direct buried, pulled or blown into conduit or innerduct, or installed aerially between poles.



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If you want to run the fiber through the same conduit as the electrical cable, and the fiber is "ADSS" or has absolutely no metal in it, then you are totally safe.

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Should I run conduit and put the fibre in it, or is it fine just to staple the fibre optic cable (with wire staples of course)? I doubt it'll need replacing, but who knows.

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If you plan to add more fiber optic cabling later, having a conduit that is too small may prevent you from pulling additional cables through the existing installation.

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### Can I run fiber in the same conduit as electrical?

General Consideration: It is generally not recommended to run fiber optic cables in the same conduit as electrical power cables. This is due to several potential risks

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### Correct conduit for fiber to run that will be outside and ...

Will there be anything else run through the conduit or just this one cable? If just this one cable, you can probably do it with as small as 1.25" or 1.5" diameter conduit so 2" will have plenty of breathing room.

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For more information, pricing, or custom solutions, please contact us:

Website: <https://piano-lessons.co.za>

Email: [info@piano-lessons.co.za](mailto:info@piano-lessons.co.za)

Phone: +31 6 37258914

Address: Herengracht 123, 1015 BT Amsterdam, Netherlands

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