



These multi-mode fibres have larger cores than single-mode. The light is reflected in a zigzag pattern down the core, resulting in higher attenuation rates (losses) than single-mode. They are generally used for backbone applications due to the high capacity and reliability.

Most fibre optic cables are suitable for indoor or outdoor use & many for running in ducts. Versions with SWA or CST are suitable for direct burial.

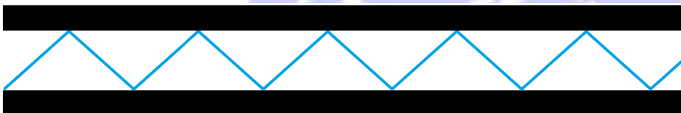
Construction

62.5/125µm fibres with coloured coating
fibres are either contained in a loose tube (LT) or tight buffered (TB)

optional steel wire armour (SWA) or corrugated steel tape armour (CST)

sheath usually low smoke zero halogen (LSZH)

Technical

| | |
|---------------------------|---|
| fibre diameter: | core 62.5µm (micrometres), cladding 125µm |
| light reflection pattern: |  |
| number of fibres | 4, 6, 8, 12, 16 or 24 core versions commonly available |
| loose tube (LT): | fibres are enclosed within protective tube(s), usually containing a water resistant gel. Ideal for external use and commonly available with SWA or CST mechanical protection. |
| tight buffered (TB): | fibres have an additional tough waterproof layer (usually 900µm) over the normal fibre coating. Designed for runs around multiple bends and not usually armoured. |

| OFL Bandwidth @ 850/1300nm | EMB @ 850nm | Min. Reach @ 1Gb/s | Min. Reach @ 10Gb/s | Min. Reach @ 40 & 100Gb/s |
|--|----------------|--------------------|---------------------|---------------------------|
| 200/500 MHz-km | No Requirement | 275/550mts | 33mts | No Requirement |
| Figures shown are industry standard, please check if critical. | | | | |

LSZH Properties: fairly tough & flexible material resistant to a wide range of oils & chemicals. Guarantees max. 0.5% HCL emissions if burnt. Also known as LSOH & LSHF (low smoke zero halogen/halogen free).

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