

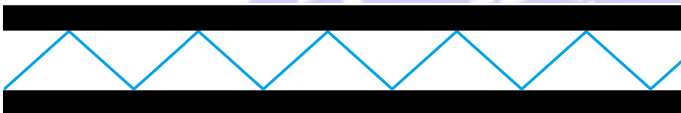
These multi-mode fibres have larger cores than single-mode. The light is reflected in a zigzag pattern down the core, resulting in higher attenuation rates (losses) than single-mode. They are generally used for backbone applications due to the high capacity and reliability.

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

50/125µm 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 50µm (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.

Fibre Type	OFL Bandwidth @ 850/1300nm	EMB @ 850nm	Min. Reach @ 1Gb/s	Min. Reach @ 10Gb/s	Min. Reach @ 40 & 100Gb/s
OM2	500/500 MHz-km	No Requirement	555/550mts	82mts	No Requirement
OM3	1500/500 MHz-km	2000 MHz-km	800/550mts	300mts	100mts
OM4	3500/500 MHz-km	4700 MHz-km	1100/550mts	550mts	125mts

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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