

Fibre-types

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SX uses multimode (grey connector jacks)

EX uses singlemode (blue connector jacks) for <5km , or multimode (grey connector jacks) <550m

There are two basic fibre families

Singlemode (Blue connector jacks) (SM, OS1.OS2)

Shielding are generally indoor PVC or LSZH and external Nylon with CST or GRP
Singlemode is fairly new, but based on the principles of the traditional fibre. It is not
not always has a yellow outer jacket (pvc or lszh) and can be used for links up to 100km.

OM4) Multimode (Grey connector jacks) (MM defines four types OM1, OM2, OM3 and

larger cores of 62.5 and 50 micr of light simultaneously and has 4 types and is made with
OM1 (vertical mark 1) is the original of the orange and red and used to drop. It has the
 recommended for new installations as it has no benefits over 50 micr of fibres. Not
OM2 has a core of 50 micr. It is a blue fibre was introduced in the 1990s with 1Gb
 and is identified by its distinctive aqua colour. With 40Gb applications up to 100mtr
OM3 is the most widely used multimode fibre with 40Gb applications up to 100mtr
OM4 is the narrowest of the multimode laser injection laser mode. FMB of 1700. It also
 be a great choice for centre applications but with little cost difference over OM3 is likely to

	62.5/125 OM1	50/125 OM2	50/125 OM3	50/125 OM4	9/125 OS1
100Mb	2km	2km	2km	2km	100km
1Gb	275mtr	550mtr	800mtr	1100mtr	100km
10Gb	33mtr	82mtr	300mtr	550mtr	40km
40Gb/100Gb	N/A	N/A	100mtr	150mtr	40km

From 2019 the growth in the market for more and higher speed data centres and
 40Gb transmission speeds are higher to cater for future requirements. It will guarantee

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