

Fibre-types

1 Jonathan Mon, Jul 24, 2017 [Ethernet / MPLS](#) 2634

SX uses multimode (grey connector jacks)

~~Connector jacks: singlemode (blue connector jacks) for <5km , or multimode (grey~~

There are two basic fibre families

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

~~Smoothings~~ are generally indoor PVC or LSZH and external Nylon with CST or GRP

~~Singlemode is fairly straightforward in the evolution of the traditional fibre optic mode.~~

~~Not always has a yellow outer jacket (PVC or LSZH) and can be used for links up to 100km.~~

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

larger cores of 62.5 and 50 micron fibres. It is the principle of the previous but randomised to have 16 cores. It has the recommended for new installations as it has no benefits over 50 micron fibres. However OM3 has a core of 50 micron and was introduced in the 1990's with 16 fibre optimised multimode fibres. Again not recommended for new installations. OM2 is the most widely used multimode fibre today. It has 40 Gb applications up to 100m. and is identified by its distinctive aqua colour. OM4 is the newest of the four. It has 8 core multimode laser and can FDDI up to 1700 m. It also be a good choice for centre applications but with little cost difference over OM3 it 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

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