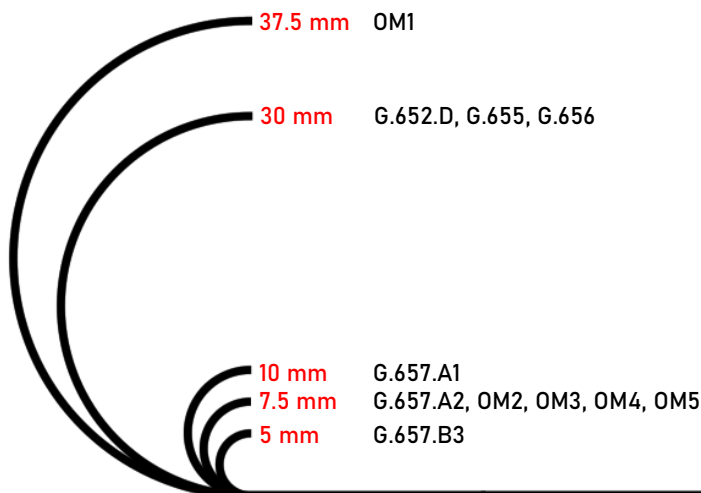


Optical fibres - general information

Achievable Transmission distance according fibre type

	OM1	OM2	OM3	OM4	OM5	OS2
1 GbE	275 m	550 m	550 m	550 m	550 m	100 km
10 GbE	33 m	82 m	300 m	550 m	550 m	40 km
40 GbE			100 m	150 m	150 m	40 km
100 GbE			70 m	150 m	150 m	10 km
40G-SWDM4			240 m	350 m	440 m	
100G-SWDM4			75 m	100 m	150 m	

Bending radius of optical fibres



OS1a (formerly OS1) vs. OS2 difference

The main difference between the OS1a and OS2 categories is the cable design. The SMF OS1a cable contains fibers in a tight secondary coating (buffer) and are intended mainly for indoor installations. The SMF OS2 cable contains fibers in a loose tube and is designed for outdoor installations for long distances. G.652.A / B / C / D fibers can be used for OS1a category, only G.652.C / D fibers can be used for OS2 cable category.

	OS1	OS1a	OS2
Cable Construction	Tight Buffer	Tight Buffer	Loose Tube
Use	Indoor	Indoor	Outdoor
Fibre standards	G.652.A/B/C/D	G.652.C/D	G.652.C/D
Attenuation at 1310 nm	1.0 dB/km	1.0 dB/km	0.4 dB/km
Attenuation at 1383 nm	Not Specified	1.0 dB/km	0.4 dB/km
Attenuation at 1550 nm	1.0 dB/km	1.0 dB/km	0.4 dB/km