



Transmission Distance Identification

Fibre Type - 050
Brand-Rex standard identification characters for fibre type used in part numbering.

First Window - Transmission distance in metres

Standard Multi Mode	850nm (SX)
High Grade Multi Mode	850nm (SX/SR)
Single Mode	1310nm (LR)

Second Window - Transmission distance in metres

Standard Multi Mode	1300nm (LX)
High Grade Multi Mode	1300nm (LX4)
Single Mode	1550nm (ER)

The FibrePlus product range can be used for conventional structured cabling systems installations and for centralised optical fibre installations. FibrePlus supports the cabling schemes as described in ISO/IEC 11801 and TIA/EIA 568C.

Link transmission distances are either attenuation limited or bandwidth limited. In attenuation limited installations the individual loss of each component is summed for all the parts in the link and the sum must fall within the loss limit for the fibre type.

In bandwidth limited applications the overall reach is given as a maximum distance supportable.

Optical Performance

The optical performance of the cable required by the current published and new draft standards is shown in the table below.

Gigabit Ethernet

10 Gigabit Ethernet

	Standard grade Multi Mode OM1 62.5/125 fibre	
	Standard grade Multi Mode OM1 & OM2 50/125 fibre	
	Standard grade Multi Mode OM3 50/125 fibre	
	High grade Multi Mode OM4 50/125 fibre	
	Low Water Peak Single Mode OS1/OS2 fibre	

Fibre Type	Maximum Attenuation (dB/km) 850nm	Maximum Attenuation (dB/km) 1300nm
062	3.5	1.5
050	3.5	1.5
OM3	3.5	1.5
OM4	3.5	1.5

Fibre Type	Maximum Attenuation (dB/km) 1310nm	Maximum Attenuation (dB/km) 1550nm
OS1	1.0	1.0
OS2	0.4	0.4