

Link length for different LAN applications

Application	Link length	Draka fibre data sheet
10 Mbit IEEE 802.3 and ISO/IEC 8802-3 10Base-FL and FB (850 nm)	OM1: 62.5 µm: 2000 m OM2: 50 µm: 1514 m OM3: 1514 m OM4: 1514 m	C02 C01a, C23, C34 C12, C31 C11, C32
100 Mbit IEEE 802.3 and ISO/IEC 8802-3 100BaseFX (1300 nm)	OM1: 62.5 µm: 2000 m OM2: 50 µm: 2000 m OM3: 2000 m OM4: 2000 m	C02 C01a, C23, C34 C12, C31 C11, C32
1 Gbit IEEE 802.3 1000Base SX (850 nm)	OM1: 62.5 µm: 275 m OM2: 50 µm: 550 m OM3: 1000 m OM4: 1100 m	C02 C01a, C23, C34 C12, C31 C11, C32
1 Gbit IEEE 802.3 1000Base LX (1300 nm)	OS2: 5000 m OM1: 62.5 µm: 550 m OM2: 50 µm: 550 m OM3: 550 m OM4: 550 m	C03e, C06e, C24 C02 C01a, C23, C34 C12, C31 C11, C32
10 Gbit IEEE 802.3ae 10GBASE-SW/SR (850 nm)	OS2: - OM1: 62.5 µm: 33 m OM2: 50 µm: 82 m OM3: 300 m OM4: 550 m <i>see note 1</i>	C02 C01a, C23, C34 C12, C31 C11, C32
10 Gbit IEEE 802.3ae 10GBASE LX4 (1300 nm)	OM1 62.5 µm: 300 m OM2 50 µm: 300 m OM3: 300 m OM4: 300 m	C02 C01a, C23, C34 C12, C31 C11, C32
10 Gbit IEEE 802.3ae 10GBASE-L (1310 nm)	OS2: 10000 m	C03e, C06e, C24
10 Gbit IEEE 802.3ae 10GBASE-EW/ER (1550 nm)	OS2: 30000 m OS2: 40000 m	C03e, C06e, C24 C06e, C24
40 Gbit IEEE.ba 40GBASE-SR = 4 x 10 Gbit (850 nm)	OM3: 100 m OM4: 150 m	C12, C31 C11, C32
40 Gbit IEEE.ba 40GBASE-LR4 = 4λ x 10 Gbit	OS2: 10000 m	C03e, C06e, C24
100 Gbit IEEE.ba 100GBASE-SR = 10 x 10Gbit (850 nm)	OM3: 100 m OM4: 150 m	C12, C31 C11, C32
100 Gbit IEEE.ba 100GBASE-ER4 = 4λ x 25 Gbit 100GBASE-LR4 = 4λ x 25 Gbit	OS2: 10000 m OS2: 40000 m	C03e, C06e, C24 C06e, C24

Note 1: Engineered solution using a maximum total connector loss of 1.0 dB and VCSELs using a maximum spectral width of 0.29 nm.

Note 2: Although the information given in this document is believed to be accurate at the time of publishing, we take all reservation with regard the use of information and encourage users to consult the standards mentioned.

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