

C00: Fibre summary

Summary of fibre properties and standards

IEC
ITU

Standards

	Type	ITU	ISO 11801 EN 50173	IEC	ANSI/TIA	Comments
C23	MM 50 µm	-	OM2	A1a	492AAAB	Standard 50 µm MM fiber,
C01a	MM 50 µm	-	OM2	A1a	492AAAB	High bandwidth 50 µm MM fiber
C08	MM 50 µm	-	OM2	A1a	492AAAB	HiCap®: Enhanced range for 1 Gbit Ethernet at 1300 nm
C11	MM 50 µm	-	OM4	A1a.3	492AAD	MaxCap-OM4. Range for 10Gbit Ethernet at 850 nm: 550 m
C12	MM 50 µm	-	OM3	A1.a.2	492AAC	MaxCap-OM3. Range for 10Gbit Ethernet ved 850 nm: 300 m
C02	MM 62.5 µm	-	OM1	A1b	492AAAA	Standard 62.5 µm fibre
C10	MM 62.5 µm	-	OM1	A1b	492AAAA	HiCap®: Extra long range for 1 Gbit Ethernet at 1300 nm
C03e	SM	G.652.D	OS1 + OS2	B1.3		Standard Enhanced SM fibre
C06e	SM	G.652.D	OS1 + OS2	B1.3		Standard Enhanced SM fibre for telecom applications
C17	SM	G.657.A1*)	OS1 + OS2	B6_a		BendBright®: Special fibre reduced macro bending sensitivity particularly at 1500 nm and 1625 nm
C18e	SM	G.652.D	OS1 + OS2	B1.3		DrakaElite™ SM fibre for patch cords: Special selected fibre with tight physical tolerances for connector mounting.
C20	SM	G.655.C/E G.656	-	B4 and B5		TeraLight®: Non-zero dispersion-shifted single mode fibre.
C24	SM	G.657.A2 and B2 *)	OS1 + OS2	B6_a + B6_b		BendBright®^{XS}: Fibre with greatly reduced bend sensibility
C25	SM	G.657.A2 and B3 *)	OS1 + OS2	B6_a + B6_b		DrakaElite™ BendBright® ^{XS} : Fibre with greatly reduced bend sensibility. Special selected fibre with tight physical tolerances for connector mounting
C26	SM	G.652.D	OS1 + OS2	B1.3		Low Loss Enhanced SM fibre for telecom terrestrial applications
C27	SM	G654.B	-	B.1.2		Draka LongLine™ 1550 nm optimised low loss single mode fibre G.654.B. For inshore networks.
C28	SM	G654.B	-	B.1.2		Draka LongLine™ 1550 nm optimised low loss single mode fibre G.654.B. Version with 2% proof test value for submarine applications and offshore networks

*) Also G.652.D is fulfilled.

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Multi mode fibres, attenuation and bandwidth

Documentation sheet	Max. Attenuation of cable [dB/km]		Bandwidth [MHz · km]	
	850 nm	1300 nm	850 nm	1300 nm
C01a	2.7	0.8	600	1200
C02	3.2	1.0	200	600
C08	2.7	0.8	600	1200
C10	3.2	1.0	200	600
C11	3.0	1.0	3500	500
C12	3.0	1.0	1500	500
C23	2.7	0.8	500	500

Single mode fibres, attenuation, dispersion and PMD

Documentation sheet	Max. Attenuation of cable [dB/km]			Nominal zero dispersion wavelength [nm]	Dispersion [ps · km · nm]		PMD _Q
	1310 nm	1550 nm	1310 nm – 1625 nm		1285 nm – 1330 nm	1550 nm	
C03e	0.39	0.25	0,39	1310	< 3	< 18	0.2
C06e	0.36	0.23	0,36	1310	< 3	< 18	0.06
C17	-	0.22	0.39	1310	< 3	< 18	0.06
C18e	0.39	0.25	0,39	1310	< 3	< 18	0.1
C20	0.40	0.25	-	-	-10.0 to -3.0	8	0.06
C24	0.39	0.25	0.39	1310	< 3	< 18	0.06
C25	0.39	0.25	0.39	1310	< 3	< 18	0.08
C26	0.34	0.19	0.34	1310	< 3	< 18	0.04
C27	-	0.20	-	1350			0.04
C28	-	0.20	-	1350			0.04