SECTION 1: Single Mode Fibres

Parameter		G652.D fibre
Mode Field Diameter	1310 nm	9.2 µm ± 0.4 µm
	1550 nm	10.4 µm ± 0.5 µm
Core cladding concentricity error		≤ 0.5 µm
Cladding diameter		125 µm ± 1 µm
Cladding non-circularity		≤ 1%
Coating-Cladding concentricity error		≤ 12 µm
Primary coating diameter		245 µm ± 10 µm
Primary coating material		UV cured acrylate
Fibre curl radius		≥ 4 m
Group refractive index	1310 nm	1.466
	1550 nm	1.467
Attenuation	1310 nm	≤ 0.36 dB/km
	1383 nm	≤ Attenuation @ 1310 nm
	1550 nm	≤ 0.23 dB/km
	1625 nm	≤ 0.25 dB/km
Chromatic dispersion	1285 nm to 1330 nm	≤ 3.5 psec/nm.km
	1550 nm	≤ 18.0 psec/nm.km
Cable cutoff wavelength (λcc)		≤ 1260 nm
Zero dispersion wavelength		1300 – 1324 nm
Zero dispersion slope		≤ 0.092 psec/nm^2 x km
Polarization mode dispersion	Fibre	≤ 0.2 psec/km
	Link Design Value	≤ 0.08 psec/km
Bending induced attenuation	1 turn @ 32mm, 1550 nm	≤ 0.05 dB
	100 turns @ 50mm, 1310 nm	≤ 0.05 dB
	100 turns @ 50mm, 1550 nm	≤ 0.05 dB
	100 turns @ 60mm, 1625 nm	≤ 0.05 dB
Proof stress level		1.0 % (100 kpsi)

PART 2: MultiMode Fibres

Parameter		OM1	OM3	OM4
Core Diameter		62.5 ± 2.5 µm	50.0 ± 2.5 µm	50.0 ± 2.5 µm
Numerical aperture		0.275 ± 0.015	0.200 ± 0.015	0.200 ± 0.015
Core-Cladding concentricity error		≤ 1.5 µm	≤ 1.5 µm	≤ 1.5 µm
Cladding diameter		125 ± 1 µm	125 ± 1 µm	125 ± 1 µm
Cladding non-circularity		≤ 1%	≤ 1%	≤ 1%
Coating-Cladding concentricity error		≤ 12 µm	≤ 12 µm	≤ 12 µm
Primary coating diameter		245 ± 10 µm	245 ± 10 µm	245 ± 10 µm
Primary coating material		UV cured Acrylate	UV cured Acrylate	UV cured Acrylate
Attenuation	850 nm	≤ 3.5 dB/km	≤ 3.0 dB/km	≤ 3.0 dB/km
	1300 nm	≤ 1.5 dB/km	≤ 1.0 dB/km	≤ 1.0 dB/km
Bandwidth	850 nm	≥ 200 MHz.km	≥ 1500 MHz.km	≥ 3500 MHz.km
	1300 nm	≥ 600 MHz.km	≥ 500 MHz.km	≥ 500 MHz.km
Bending induced attenuation	10 turns, 60mm, 850 nm	≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB
	10 turns, 60mm, 1300 nm	≤ 0.5 dB	≤ 0.5 dB	≤ 0.5 dB
10 Gig Ethernet transmission distance @ 850 nm		N/A	300 m	550 m
Proof Stress Level		≤ 1%, 100 kpsi	≤ 1%, 100 kpsi	≤ 1%, 100 kpsi