



Optical Fiber Performance

Loose Buffer Tube

Fiber Type	Multimode Fibers								
	Optical Performance						Dimensions		
	Attenuation (typ. / max.) (dB/km)		Bandwidth (MHz/km)		1 GbE Length (m)		"Core Diameter" (µm)	"Cladding Diameter" (µm)	"Coating Diameter" (µm)
	850 nm	1,300 nm	850 nm	1,300 nm	850 nm	1,300 nm			
MM 62,5 / 125 OM1	2.7 / 3.2	0.6 / 1.1	220	600	300	550	62.5 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM2	2.3 / 2.8	0.6 / 0.9	600	1,200	600	600	50 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM3	- / 3.0	- / 1.0	1,500	500	300*	-	50 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM4	- / 3.0	- / 1.0	3,500	500	550*	-	50 ±2.5	125 ±1.0	245 ±10

* 10 Gbps Ethernet

Fiber Type	Singlemode Fibers							
	Optical Performance				Dimensions			
	Attenuation (typ. / max.) (dB/km)		Chromatic Dispersion ps (nm/km)		Mode Field Diameter (µm)		"Cladding Diameter" (µm)	"Coating Diameter" (µm)
	1,310 nm	1,550 nm	1,310 nm	1,550 nm	1,310 nm	1,550 nm		
SM 9 / 125 G.652D	0.35	0.24	3.5	18.0	9.2 ±0.4	10.4 ±0.4	125 ±0.7	245 ±10
SM 9 / 125 G.657A	0.35	0.24	3.5	18.0	8.9 ±0.4	10.0 ±0.5	125 ±0.7	245 ±10

Tight Buffer

Fiber Type	Multimode Fibers								
	Optical Performance						Dimensions		
	Attenuation (typ. / max.) (dB/km)		Bandwidth (MHz/km)		1 GbE Length (m)		"Core Diameter" (µm)	"Cladding Diameter" (µm)	"Coating Diameter" (µm)
	850 nm	1,300 nm	850 nm	1,300 nm	850 nm	1,300 nm			
MM 62,5 / 125 OM1	2.8 / 3.3	0.7 / 1.2	220	600	300	550	62.5 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM2	2.3 / 2.8	0.6 / 0.9	600	1,200	600	600	50 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM3	- / 3.2	- / 1.1	1,500	500	300*	-	50 ±2.5	125 ±1.0	245 ±10
MM 50 / 125 OM4	- / 3.2	- / 1.1	3,500	500	550*	-	50 ±2.5	125 ±1.0	245 ±10

* 10 Gbps Ethernet

Fiber Type	Singlemode Fibers							
	Optical Performance				Dimensions			
	Attenuation (typ. / max.) (dB/km)		Chromatic Dispersion ps (nm/km)		Mode Field Diameter (µm)		"Cladding Diameter" (µm)	"Coating Diameter" (µm)
	1,310 nm	1,550 nm	1,310 nm	1,550 nm	1,310 nm	1,550 nm		
SM 9 / 125 G.652D	0.33 / 0.5	0.25 / 0.4	3.5	18.0	9.2 ±0.4	10.4 ±0.4	125 ±0.7	245 ±10
SM 9 / 125 G.657A	0.32 / 0.5	0.25 / 0.4	3.5	18.0	8.9 ±0.4	10.0 ±0.5	125 ±0.7	245 ±10