

Overview - FO Ethernet Application



Fiber type accord ISO/IEC 11801	OM1		OM2		OM3		OM4		OS2	
Wavelength	850nm	1300nm	850nm	1300nm	850nm	1300nm	850nm	1300nm	1310nm	1550nm
overfilled modal bandwidth (MHz*km)	200	500	500	500	1500	500	3500	500		
eff. Laser launch modal bandwidth (MHz*km)					2000		4700		NA	NA

ISO/IEC 8802-3 LED	100BASE-F X		2km 11.0dB		2km 11.0dB		2km 11.0dB		2km 11.0dB			
IEEE 802,3 LED	1000BASE-S X	z	275m 2.6dB		550m 3.56dB		550m 3.56dB		550m 3.56dB			
IEEE 802,3 LED	1000BASE-L X	z		550m 2.35dB		550m 2.35dB		550m 2.35dB		550m 2.35dB	5km 4.57dB	
IEEE 802,3 VCSEL	10GBASE-S R		33m 2.5dB		82m 2.3dB		300m 2.6dB		550m**			
IEEE 802,3 Laser	10GBASE-L R										10km 6.0dB	
IEEE 802,3 Laser	10GBASE-E R											30km (11.0) 40km (11.0)
IEEE 802,3 WDM	10GBASE-L X 4 ^k			300m 2.0dB		300m 2.0dB		300m 2.0dB		300m 2.0dB	10km 6.0dB	
IEEE 802,3 OFL	10GBASE-L R M			220m 1.9dB		220m 1.9dB		220m 1.9dB		220m 1.9dB		
IEEE 802,3 VCSEL	10GBASE-S W		33m 2.5dB		82m 2.3dB		300m 2.6dB					
IEEE 802,3 Laser	10GBASE-L W										10km 6.0dB	
IEEE 802,3 Laser	10GBASE-E W											30km (11.0) 40km (11.0)
IEEE 802,3 WDM	40GBASE-L R 4	ba									10km 6.7dB ^a	
IEEE 802,3 VCSEL	40GBASE-S R 4 ^o	ba					100m 1.9dB ^{bc}		150m 1.5dB ^{bd}			
IEEE 802,3 WDM	100GBASE-L R 4 ^k	ba									10km 6.3dB ^a	
IEEE 802,3 WDM	100GBASE-E R 4 ^k	ba									30km (15) 40km (18) ^a	
IEEE 802,3 VCSEL	100GBASE-S R 10 ^o	ba					100m 1.9dB ^{bc}		150m 1.5dB ^{bd}			