



## LINK LENGTH FOR DIFFERENT APPLICATIONS

### IEEE 802.3 Ethernet

Fiber Type	62.5/125 OM1	62.5/125 OM1	62.5/125 OM1	50/125 OM2	50/125 OM2	50/125 OM2	50/125 OM3	50/125 OM3	50/125 OM3	50/125 OM3	50/125 OM4	50/125 OM4	50/125 OM4	SM OS1	SM OS2	SM OS2
Wavelength	850 nm	850 nm	1300 nm	850 nm	850 nm	1300 nm	850 nm	850 nm	1300 nm	850 nm	850 nm	1300 nm	1300 nm	1300 nm	1300 nm	1550 nm
Bandwith (MHz/km)	160	200	500	500	2000	500	500	1500	500	500	3500	500				
Applications																
1000BASE-SX	220	275	-	550	860	-	1000	550	-	1100	550	-				
1000BASE-LX	-	-	550	-	-	550	-	-	550	-	-	550	2500	5000	5000	
10GBASE-SR	26	33	-	82	300	-	300	300	-	550	550	-				
10GBASE-LX4	-	-	300	-	-	300			300			300	4200	10000	-	

STANDARDS	1GB/S	1GB/S	10GB/S	10GB/S	10GB/S	10GB/S	10GB/S
Wavelength	850 nm	1300 nm	850 nm	1300 nm	1550 nm	1310 nm	1550 nm
Applications	1000BASE-SX	1000BASE-LX	10GBASE-SR	10GBASE-LX4	10GBASE-L	10GBASE-L	10GBASE-EW/ER
OM1 62.50/125	275 m	550 m	33 m	300 m	-	-	-
OM2 50/125	550 m	550 m	82 m	300 m	-	-	-
OM3 50/125	1100 m	550 m	300 m	300 m	-	-	-
OM4 50/125	1500 m	550 m	550 m	300 m	-	-	-
OS1 SM 9/125	-	5000 m	-	-	-	4250 m	8900 m
OS2 SM 9/125	-	5000 m	-	-	10 000 m	10 000 m	30 000 m

Wavelength		850nm			
Bandwidth		100 mbps	1Gbps	10Gbps	
Distance	OM1	550m	275m	33m	
	OM2	550m	550m	82m	
	OM3	550m	1050m	300m	
	OM4	550m	1100m	550m	

Wavelength		1300nm/1310nm			
Bandwidth		100 mbps	1Gbps	10Gbps	
Distance	OM1	2km	550m	300m	
	OM2	2km	550m	300m	
	OM3	2km	550m	300m	
	OM4	2km	550m	300m	
	OS1/2	10km	5km	10km	