

LASER ULTRA-FOX FIBER PERFORMANCE CHART
Laser Ultra-Fox™ Fiber Performance

Fiber Code	Core/Cladding Diameter (µm)	Wavelength (nm)	Industry Standard Designation	Gigabit Ethernet Distance (m)	10-Gigabit Ethernet Distance (m)	Maximum Cabled Attenuation (dB/km)	Minimum Laser Bandwidth* (MHz-km)	Minimum LED Bandwidth** (MHz-km)
WLS	62.5/125 Standard	(850/1310)	OM1 ISO/IEC 11801	300/600	33/300 ¹	3.5/1.5	220/500	200/500
WLX	62.5/125 XL	(850/1310)	OM1+ ISO/IEC 11801	500/1000	33/300 ¹	3.0/1.0	385/500	200/500
ALS	50/125 Standard	(850/1310)	OM2 ISO/IEC 11801	600/600	82/300 ¹	3.5/1.5	510/500	500/500
ABS	50/125 Standard Bend Tolerant	(850/1310)	OM2 ISO/IEC 11801	600/600	82/300 ¹	3.5/1.5	510/500	500/500
ALX	50/125 XL	(850/1310)	OM2+ ISO/IEC 11801	750/600	150/300 ²	3.0/1.0 ³	950/500	700/500
ABX	50/125 XL Bend Tolerant	(850/1310)	OM2+ ISO/IEC 11801	750/600	150/300 ²	3.0/1.0 ³	950/500	700/500
ALT	50/125 (300 meter 10-GbE)	(850/1310)	OM3 ISO/IEC 11801	1000/600	300/300 ²	3.0/1.0 ³	2000/500	1500/500
ABT	50/125 (300 meter 10-GbE) Bend Tolerant	(850/1310)	OM3 ISO/IEC 11801	1000/600	300/300 ²	3.0/1.0 ³	2000/500	1500/500
ALE	50/125 (550 meter 10-GbE)	(850/1310)	OM4 ISO/IEC 11801	1040/600	550 ¹ /300 ²	3.0/1.0 ³	4700/500	3500/500
ABE	50/125 (550 meter 10-GbE) Bend Tolerant	(850/1310)	OM4 ISO/IEC 11801	1040/600	550 ¹ /300 ²	3.0/1.0 ³	4700/500	3500/500
SLX	9 ^µ /125 Low Water Peak Single-mode	(1310/1550)	ITU-T G.652.D	5 km ⁴	10 km ⁵	0.5/0.5	—	—
SLA	9 ^µ /125 Bend Tolerant Single-mode	(1310/1550)	ITU-T G.657.A1 ITU-T G.652.D	5 km ⁴	10 km ⁵	0.5/0.5	—	—
SLB	9 ^µ /125 Bend Tolerant Single-mode	(1310/1550)	ITU-T G.657.A2 ITU-T G.652.D	5 km ⁴	10 km ⁵	0.5/0.5	—	—

* Minimum Laser Effective Modal Bandwidth (EMB)

** For backward compatibility to LED based systems, overfilled launch(OFL)

¹ 1310 nm CWDM lasers (10GBASE-LX4)

² Reach assuming 3.0 dB maximum cabled attenuation at 850 nm and 1.3 dB total connection and splice loss

³ Supports 220 meter 10GBASE-LRM distance, or 300 meter 10GBASE-LRM distance with 300 meter capable equipment

⁴ 3.5/1.5 dB/km maximum attenuation applies for DX-Series cables greater than 36 fibers, and for all DX-Series cables with armor (corrugated steel tape or interlocked armor) or any other secondary outer jacketing

⁵ 10 km for 1310 nm 1000BASE-LH, and 5 km for 1310 nm 1000BASE-LX

⁶ 10 km for 1310 nm 10GBASE-LR, and 40 km for 1550 nm 10GBASE-ER

⁷ Typical Mode Field Diameter at 1310 nm

Note: Many other fiber types, fiber bandwidth, and attenuation performances are available.