

MULTIMODE FIBER OM1-OM5 SPECS

	Glass fiber specification TIA-492AAAx	The second second second	Max refractive index difference Δn	Mimimum modal bandwitdh (MHz·km)				Maximum glass fiber			Maximum fiber cable		IEEE 802.3 link distance						
Fiber cable type ISO/IEC 11801				Overfilled launch (OFL) bandwidth			Effective modal bandwidth		attenuation (dB/km) TIA-492AAAx IEC 60793-2-10			attnuation (dB/km) TIA 568-3-D ISO/IEC 11801		1000-SR	10G-SR	The second secon	100G-SR4 & 400G-SR16	A CONTRACTOR OF THE PARTY OF TH	
				850nm	953nm	1300nm	850nm	953nm	850nm	953nm	1300nm	850nm	953nm	1300nm					
OM1	TIA-492AAAA	62.5	0.02	200		500			3.2		0.9	3.5		1.5	275m	33m			
OM2	TIA-492AAAB	50	0.01	500		500			3		1	3.5		1.5	550m	82m			
ОМЗ	TIA-492AAAC	50	0.01	1500		500	2000		2.5		0.8	3.0		1.5		300m	100m	70m	70m
OM4	TIA-492AAAD	50	0.01	3500		500	4700		2.5		0.8	3.0		1.5		400m	150m	100m	100m
OM5	TIA-492AAAE (WBMMF)	50	0.01	3500	1850	500	4700	2470	2.5	1.8	0.8	3.0	2.3	1.5	no spec	400m	150m	100m	100m
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	OM4	OM5				
Standard TIA	TIA-492AAAD	TIA-492AAAE				
ISO/IEC Draft standard	IEC 60793-2-10 A1a.3	IEC 60793-2-10 A1a.4				
EMB bandwidth at 850nm	4700MHz.km	4700MHz.km				
EMB bandwith at 953nm	NA	2470MHz.km				
Fiber count required at 40Gbits	8	2				
Backward compatibility	OM3	OM4 / OM3				

OM5 specifications are the same as OM4 and include operation at a second wavelength of 953 nm.

QSFP 40-Gb BiDi transceivers have two 20-Gb channels that transmit and receive simultaneously on two wavelengths.

The result is a 40-Gb link over a LC duplex patch cord.