

DYS FIBER OPTIC

Multimode Fiber Grades: OM1–OM5

Quick-reference card — bandwidth, 10G reach, attenuation, and bend-insensitive options.

OM1–OM5 at a glance

Grade	Core	OFL bandwidth (850/1300 nm)	EMB @850 nm	10GBASE-SR reach
OM1	62.5/125 µm	≥200 / 500 MHz·km	Not specified	Not laser-optimized
OM2	50/125 µm	≥500 / 500 MHz·km	Not specified	Not laser-optimized
OM3	50/125 µm	≥1500 / 500 MHz·km	≥2000 MHz·km	≤300 m
OM4	50/125 µm	≥3500 / 500 MHz·km	≥4700 MHz·km	≤550 m
OM5	50/125 µm	—	≥4700 MHz·km	Per OM4 at 850 nm

Attenuation (does not change by grade)

Grade	Attenuation typical (850/1300 nm)	Attenuation max (850/1300 nm)
OM1 / OM2	3.0 / 1.0 dB/km	3.5 / 1.5 dB/km
OM3 / OM4	3.0 / 1.0 dB/km	3.5 / 1.5 dB/km
OM5	3.0 / 1.0 dB/km	Per grade envelope

Bend-insensitive multimode (BI-OM3/OM4)

Fiber	Bandwidth grade	Min bend radius
OM3 / OM4 / OM5	≥2000 / ≥4700 / ≥4700 MHz·km EMB	30 mm
BI-OM3	≥2000 MHz·km EMB (same as OM3)	7.5 mm
BI-OM4	≥4700 MHz·km EMB (same as OM4)	7.5 mm

Full guide → www.dysfiber.com/blog/public/tools/om1-om5-multimode-fiber-grades.pdf | **Need cable to spec? Request a 24h quote →**
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