

DYS FIBER OPTIC Fiber Optic Cable Size Chart

Quick-reference card — core & cladding sizes, DYS cable diameters with production tolerances, and governing standards.

Core vs. cladding

Fiber	Core	Cladding	Grades	Light paths
Single-mode	9 µm	125 µm	OS1 / OS2	One — no modal dispersion, longest reach
Multimode	50 µm	125 µm	OM2 – OM5	Many — modal dispersion limits reach
Multimode (legacy)	62.5 µm	125 µm	OM1	Many — widest core, shortest reach

The complete size chart

Core/Cladding (µm)	Fiber type	Grade	Jacket color	Typical application
9/125	Single-mode	OS1	Yellow	Indoor / tight-buffered, campus (≤2 km @ 10G)
9/125	Single-mode	OS2	Yellow	Outdoor / long-haul, FTTH, metro (10 km+ @ 10G)
62.5/125	Multimode	OM1	Orange	Legacy enterprise LAN (~33 m @ 10G)
50/125	Multimode	OM2	Orange	Enterprise LAN, short links (~82 m @ 10G)
50/125	Multimode (laser-opt.)	OM3	Aqua	Data center 10G/40G/100G (300 m @ 10G)
50/125	Multimode (laser-opt.)	OM4	Aqua	Data center backbone (400–550 m @ 10G)
50/125	Multimode (wideband)	OM5	Lime green	SWDM data center, high-density

Indoor & FTTH drop cable (DYS, measured)

Cable (DYS type)	Fibers	Outer diameter	Tensile (short / long)	Min bend (static)
Simplex round (GJFJV)	1F	Ø1.8 ±0.2 mm	100 / 60 N	15× OD
Flat drop (GJXFH)	1–4F	2.0 × 3.0 ±0.1 mm	200 / 100 N	15× OD
Duplex flat (GJFJBV)	2F	3.0 × 5.4 ±0.2 mm	200 / 100 N	15× OD

Outdoor loose-tube cable (DYS, measured)

Cable (DYS type)	Fiber count	Outer diameter	Tensile (short / long)
GYFTY (non-metallic)	12–48F	Ø8.4 ±0.2 mm	1500 / 600 N
GYFTY	60–72F	Ø10.5 ±0.5 mm	1500 / 600 N
GYFTY	74–96F	Ø12.0 ±0.5 mm	1500 / 600 N
GYFTY	98–120F	Ø13.5 ±0.5 mm	1500 / 600 N
GYFTY	122–144F	Ø15.0 ±0.5 mm	1500 / 600 N
GYTS (steel-armored)	2–60F	Ø10.5 ±0.5 mm	1500 / 600 N
GYTS	62–72F	Ø11.5 ±0.5 mm	1500 / 600 N
GYTS	74–96F	Ø13.0 ±0.5 mm	1500 / 600 N
GYTS	98–144F	Ø15.8 ±0.5 mm	1500 / 600 N
GYDXTW (central tube)	12–48F	Ø11.8 ±0.5 mm	2000 / 600 N
GYDXTW	60–72F	Ø13.0 ±0.5 mm	2000 / 600 N
GYDXTW	74–96F	Ø13.5 ±0.5 mm	2000 / 600 N
GYDXTW	98–120F	Ø14.5 ±0.5 mm	2000 / 600 N
GYDXTW	122–144F	Ø15.0 ±0.5 mm	2000 / 600 N

Which standard defines each size

Size / attribute	Governing standard
9/125 single-mode	ITU-T G.652 (G.652.D), ITU-T G.657 (bend-insensitive A1/A2/B3)

Size / attribute	Governing standard
50/125 multimode	ITU-T G.651.1; ISO/IEC 11801-1 grades OM2–OM5
62.5/125 multimode	ISO/IEC 11801-1 grade OM1 (legacy)
125 µm cladding, 245–250 µm coating	IEC 60793-2-10 / -2-50 (fiber geometry)
Cable construction, OD, mechanicals	IEC 60794 series
Jacket color code	TIA-598-C / -D

Full guide → www.dysfiber.com/blog/fiber-basics/fiber-optic-cable-size-chart | **Need cable to spec? Request a 24h quote →**
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