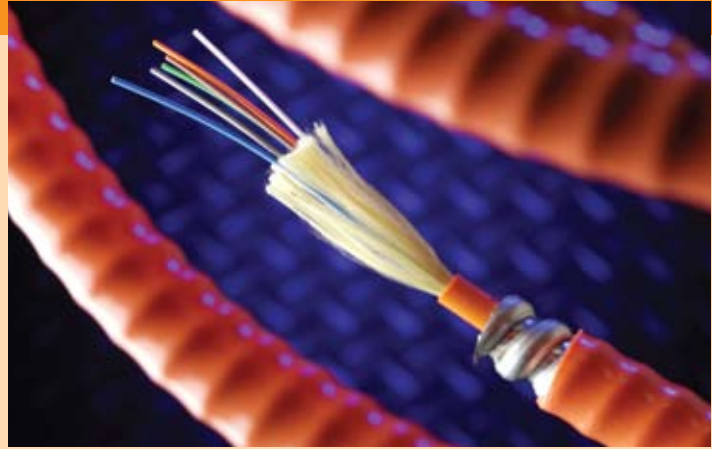


Optical Fiber

General Cable, Corning[®] Optical Fiber. Names that are synonymous with cable and fiber combine to create the ultimate in fiber optics. General Cable partners with Corning Optical Fiber to deliver the world's most reliable and technologically advanced optical fiber cables.



Singlemode

Standard

General Cable utilizes Corning[®] SMF-28e+™ fiber as its standard singlemode offering. This is a full-spectrum fiber that is fully backward-compatible with legacy singlemode fiber. It enables increased optical launch power of legacy singlemode fiber, improved macrobend specifications from 0.05 dB to 0.03 dB, and tighter zero dispersion wavelength (λ_0) tolerance from a range of ± 10 nm to ± 7 nm. This fiber supports all broadband applications and complies with the most stringent industry standards, such as:

- ITU-T G.652 (Tables A, B, C and D)
- IEC 60793-2-50 Type B1.3
- TIA/EIA 492-CAAB
- Telecordia GR-20-CORE

Long-Haul

For long-haul applications, rely on General Cable's long history of cable experience and the technology of Corning[®] LEAF[®] fiber. This is the most widely deployed non-zero dispersion shifted (NZ-DSF) fiber in the world and the first low water peak NZ-DSF fiber. Its large effective area and industry-leading polarization mode dispersion (PMD) specifications enable 10 Gb/s and 40 Gb/s network systems of the future.

Multimode

ClearCurve[®] Multimode Fiber

Corning[®] ClearCurve[®] ultra-bendable laser-optimized™ multimode optical fiber delivers the best macrobending performance in the industry while maintaining compatibility with current optical fibers, equipment, practices and procedures. ClearCurve OM3/OM4 multimode fiber is designed to withstand tight bends and challenging cable routes with substantially less signal loss than conventional multimode fiber.

InfiniCor[®] Multimode Fiber

For enterprise networks, turn to General Cable utilizing Corning[®] InfiniCor[®] fibers. These are the world's first laser-optimized™ fibers. These fibers allow higher data aggregation in premise applications compared with non-laser-optimized fibers, full compatibility with legacy protocols and applications, superior measurement technology and manufacturing control, and industry-leading CPC[®] coatings for superior microbend and environmental performance. InfiniCor fiber performance is ensured by minEMBc, the industry's leading standards-approved bandwidth measurement for OM3 fibers. InfiniCor fibers are the only ones to use this measurement to ensure 10 Gb/s performance.

62.5 micron

These fibers support data rates of 1 Gb/s in both the 850 nm and 1300 nm windows. They comply with the most stringent industry standards, such as:

- ISO/IEC 11801, type OM1 fiber
- IEC 60793-2-10, type A1b fiber
- TIA/EIA, 492AAAA-A

50 micron

These fibers support data rates of 10 Gb/s at 850 nm. They also comply with the most stringent industry standards, such as:

- ISO/IEC 11801, type OM2, OM3 and OM4* fibers
- IEC 60793-2-10, type A1a.1, A1a.2 and A1a.3* fibers
- TIA/EIA, 492AAAB, 492AAAC-A and 492AAAD

* Assumes IEC draft standard is harmonized with 492AAAD, which was approved by TIA



Optical Fiber Code Cross-Reference

Fiber Type	General Cable	Corning® Optical Fiber	Description
Standard Loose Tube SM	AQ	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode, ITU-T G.652.D
Performance Loose Tube SM	AT	SMF-28e+™ Fiber	Full spectrum, high performance low water peak singlemode with 0.35/0.25 attenuation, ITU-T G.652.D
Tight Buffer SM	AP	SMF-28e+™ Fiber	Full spectrum, low water peak singlemode with 900µm PVC buffer, ITU-T G.652.D
Long-Haul SM	AL	LEAF® Fiber	Large A _{eff} , low water peak, NZ-DSF singlemode, ITU-T G.655
Bend-Insensitive SM	AB	SMF-28e® XB Fiber	Full spectrum with improved macrobending performance, ITU-T G.652.D and ITU-T G.657.A
62.5 µm MM	CG	InfiniCor® 300 Fiber	1 Gb/s ≤ 300 m at 850 nm, OM1* 1 Gb/s ≤ 550 m at 1300 nm
62.5 µm MM	CL	InfiniCor® CL™ 1000 Fiber	1 Gb/s ≤ 500 m at 850 nm, OM1* 1 Gb/s ≤ 1000 m at 1300 nm
50 µm MM	BI	InfiniCor® SXi Fiber	10 Gb/s ≤ 150 m at 850 nm, OM2* 1 Gb/s ≤ 750 m at 850 nm
50 µm MM	BE	InfiniCor® SX+ Fiber	10 Gb/s ≤ 300 m at 850 nm, OM3* 1 Gb/s ≤ 1000 m at 850 nm
50 µm MM	BL	InfiniCor® eSX+ Fiber	10 Gb/s ≤ 550 m at 850 nm, OM4* 1 Gb/s ≤ 1100 m at 850 nm
50 µm MM	BM	InfiniCor® eSX+ Fiber	10 Gb/s ≤ 600 m at 850 nm, OM4* 1 Gb/s ≤ 1100 m at 850 nm
Ultra-bendable 50 µm MM	BC	ClearCurve® OM3 Fiber	10 Gb/s ≤ 300 m at 850 nm, OM3* 1 Gb/s ≤ 1000 m at 850 nm
Ultra-bendable 50 µm MM	BB	ClearCurve® OM4 Fiber	10 Gb/s ≤ 550 m at 850 nm, OM4* 1 Gb/s ≤ 1100 m at 850 nm

* Designation per ISO 11801 Fiber Standards

SMF-28e+ is a trademark and Corning, LEAF, InfiniCor and Plus Corning Optical Fiber are registered trademarks of Corning Incorporated, Corning, NY, U.S.A.

MULTIMODE FIBER SELECTION GUIDE

Optical Characteristics:		50/125 PRODUCT FAMILY						62.5/125 PRODUCT FAMILY		UNITS
		OM2 Type-BI	OM3 Type-BE	OM4 Type-BL	OM4 Type-BM	OM3 Type-BC	OM4 Type-BB	OM1 Type-CG	OM1 Type-CL	
Maximum Finished Cable Attenuation Coefficient	@850nm	3.0	3.0	3.0	3.0	3.0	3.0	3.5	3.5	dB/km
	@1300nm	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	dB/km
Overfill Launch Bandwidth	@850nm	700	1500	1500	1500	1500	1500	200	200	MHz.km
	@1300nm	500	500	500	500	500	500	500	500	MHz.km
Laser Bandwidth	@850nm	850	2000	4700	5350*	2000	4700	220	385	MHz.km
Gigabit Ethernet Link Length (1 Gbps)	1000BASE-SX (850nm)	750	1000	1100	1100	1000	1100	300	500	meters
	1000BASE-LX (1300nm)	550	550	550	550	550	550	550	1000	meters
10 Gigabit Ethernet Length (10 Gbps)	10GBASE-SR (850nm)	150	300	550	600	300	550	33	33	meters

* Using 3.0 dB cable attenuation and 0.7 dB connector allocation

SINGLEMODE FIBER SELECTION GUIDE

FIBER DESCRIPTION	FIBER TYPE	TYPICAL ATTENUATION (dB/km)				GIGABIT ETHERNET DISTANCE (METERS)		10 GIGABIT ETHERNET DISTANCE (METERS)
		1310nm	1383nm	1550nm	1625nm	1310nm	1310nm	1550nm
Singlemode - Loose Tube								
Premium	AQ	0.40	0.40	0.30	0.35	10,000	5,000	30,000
High Performance	AT	0.35	0.35	0.25	0.30	10,000	5,000	30,000
Singlemode - Tight Buffer								
Super	AP	0.65	-	0.65	-	10,000	5,000	30,000
Breakout	AP	1.00	-	1.00	-	10,000	5,000	30,000