

Tactical Cable Fiber Specification and Combat Series 8

Reliability for Your Toughest Applications

General Cable’s tactical fiber optic cables are designed, engineered, and manufactured to specification for an extensive range of markets in military, marine/oil rig, transit, utility, industrial, TV camera, and other diverse applications.

Advance Performance

General Cable’s tactical fiber optic cables are lightweight and rugged to withstand repeated flexing. The compact design allows for ease of deployment and re-configuration. The UV- and flame-resistant polyurethane jackets withstand even the harshest conditions, resulting in mechanical, chemical, and weather resistance.

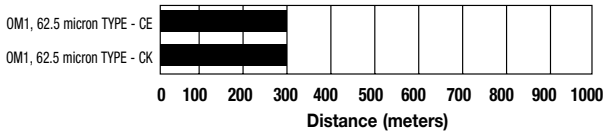
OPTICAL FIBER CODE GUIDE

Fiber Type	General Cable	Description
500 μm Coated SM	AE	ITU-T G.652.D
500 μm Coated SM, QPL	AK	ITU-T G.652.D
500 μm Coated, 62.5 MM	CE	1 Gb/s ≤ 300 m at 850 nm, OM1 1 Gb/s ≤ 550 m at 1300 nm
500 μm Coated, 62.5 MM, QPL	CK	1 Gb/s ≤ 300 m at 850 nm, OM1 1 Gb/s ≤ 550 m at 1300 nm

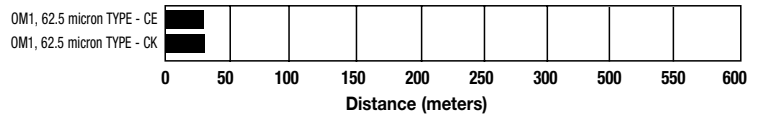
MULTIMODE FIBER SELECTION GUIDE

Characteristics:		62.5/125 PRODUCT FAMILY		UNITS
		OM1 Type-CE	OM1 Type-CK	
Maximum Finished Cable Attenuation Coefficient	@850 nm	3.5	3.5	dB/km
	@1300 nm	1.0	1.0	dB/km
Overfill Launch Bandwidth	@850 nm	200	200	MHz.km
	@1300 nm	500	500	MHz.km
Laser Bandwidth	@850 nm	220	200	MHz.km
Gigabit Ethernet Link Length (1 Gbps)	1000 BASE-SX (850 nm)	300	300	meters
	1000 BASE-LX (1300 nm)	550	550	meters
10 Gigabit Ethernet Link Length (10 Gbps)	10G BASE-SR (850 nm)	33	33	meters
Coating	—	500	500	microns
QPL	—	No	Yes	—

1 Gbps Link Lengths @ 850 nm



10 Gbps Link Lengths @ 850 nm



NOTE: Use the code in the “Fiber Type” column to replace the XX notation in the catalog number shown on the catalog page. This identifies the fiber that will be provided with the cable choice.

The fibers in all completed cables are tested 100% at the factory for attenuation, and each fiber must meet the minimum requirements specified by the customer.

SINGLEMODE FIBER SELECTION GUIDE

FIBER DESCRIPTION	FIBER TYPE	TYPICAL ATTENUATION (dB/km)				GIGABIT ETHERNET DISTANCE (METERS)	10 GIGABIT ETHERNET DISTANCE (METERS)		COATING microns	QPL
		1310 nm	1383 nm	1550 nm	1625 nm	1310 nm	1310 nm	1550 nm		
Singlemode - Tight Buffer										
500 μm SM	AE	1.00	—	1.00	—	10,000	5,000	30,000	500	No
500 μm SM QPL	AK	1.00	—	1.00	—	10,000	5,000	30,000	500	Yes