

Tactical Cable Fiber Specification and Selection

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.

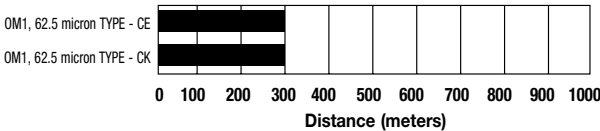
OPTICAL FIBER CODE GUIDE

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

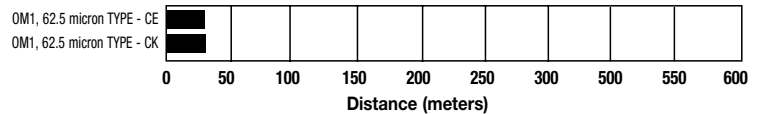
MULTIMODE FIBER SELECTION GUIDE

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

1 Gbps Link Lengths @ 850nm



10 Gbps Link Lengths @ 850nm



SINGLEMODE FIBER SELECTION GUIDE

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

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.