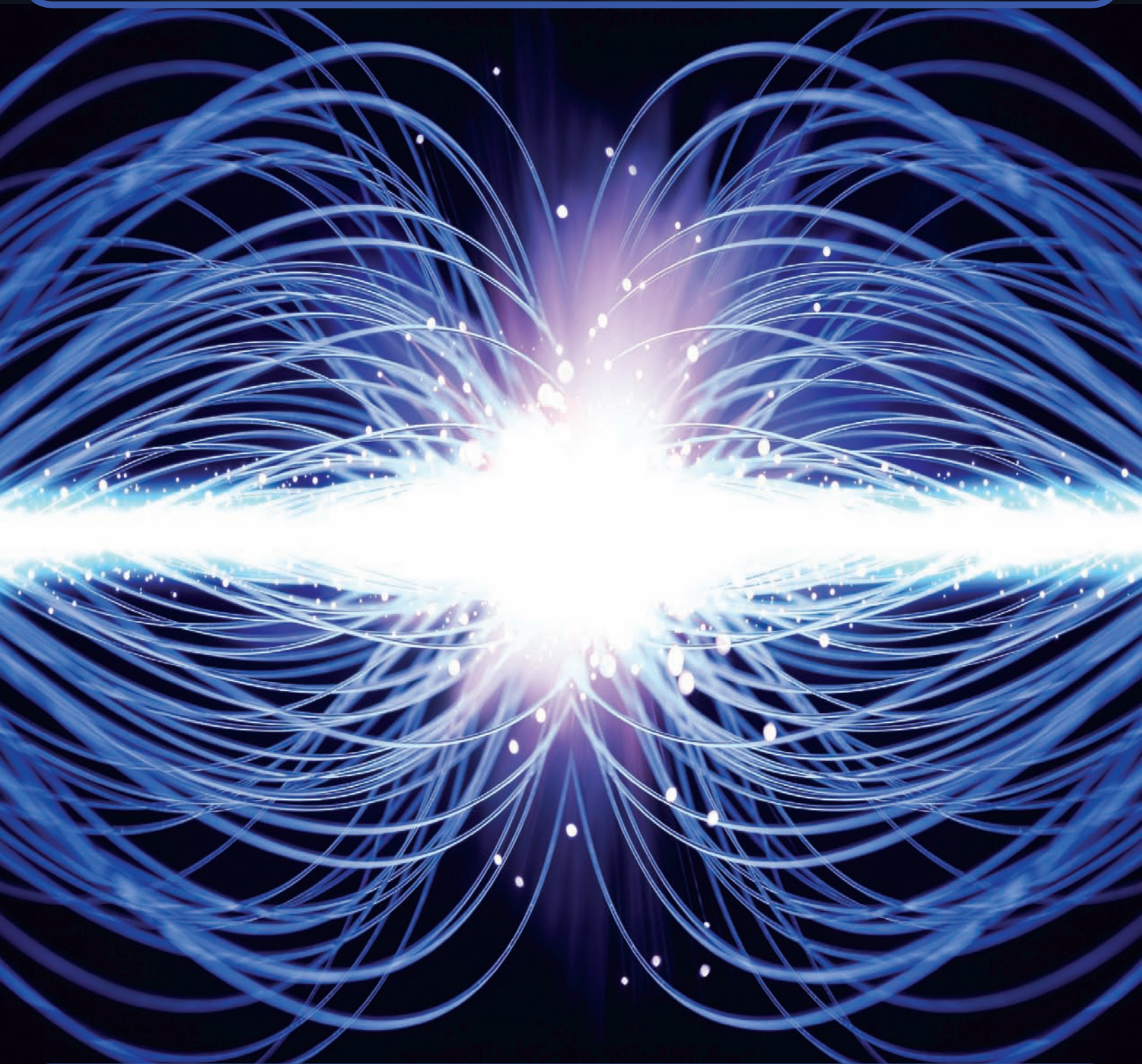


OMNICABLE



FIBER OPTIC CABLE

(800) 292-OMNI

omnicable.com

Two bundles of blue fiber optic cables with glowing white ends, one on the left and one on the right, framing the title.

Fiber Optics

Fiber optic cables offer a distinct set of advantages over traditional copper based category communications cables, i.e. category 5, 5e, 6, etc. In particular, fiber optic cables offer greater bandwidth carrying capacity, complete electrical isolation, small-lightweight designs, and overall system reliability.

Fiber optic cables use light pulses from either an LED or Laser to transmit and receive data. Copper or category communications cables use electrical signals to transmit and receive information. Typically, fiber and copper communications cables interface via media conversion, whereas light pulses transmitted over fiber optic cables are converted into an electrical signal that allows connectivity to copper based communications cables.

The greatest advantage of fiber over copper communications cables is bandwidth. Fiber optic cables can offer up to 100x greater bandwidth carrying capacity. In many cases, the only limitation to the bandwidth capacity is the transmitters and receivers. In addition to bandwidth, another advantage of fiber is the low loss of information that is transmitted or received over long distances. In particular, most long haul communications networks require amplification about every mile. Fiber networks may only require amplification every 100 miles, depending on the type of fiber and transmission equipment used.

Omni Cable carries a full line of optical cables to meet all of your needs. Whether you are looking for fiber cables to service campus networks, LAN/WAN, long haul networks or tough environment applications, Omni Cable has the right cable for you.

Indoor

Indoor fiber optic cables are strictly for indoor use, and come in a selection of plenum, riser, and low smoke zero halogen style cables, with the options of singlemode and multimode fiber grades. Indoor cables come in a tight buffer construction.

Indoor/Outdoor

Indoor/Outdoor cables also come in a selection of plenum, riser, low smoke zero halogen style cables. Indoor/Outdoor cables have the option of a tight buffer or loose tube construction, depending on the environment the cable is installed into.

Outdoor

Outdoor fiber optic cables come with either an all dielectric or direct burial/armored construction. Outdoor cables have a loose tube construction, which is designed to withstand tougher environmental conditions such as rain, ice, snow, and drastic temperature fluctuation. Outdoor cables also contain a water resistant substance within the oversized tubes protect the fibers in the event of a moisture breach.

SingleMode vs. MultiMode




Singlemode fibers, which have the smallest core size, require the use of lasers that produce a precise beam of light to transmit and receive data. Singlemode fibers have a larger bandwidth than multimode fibers and are primarily used in long distance communications networks.

Multimode fibers, which have a core size of either 50μ (micron) or 62.5μ, require the use of LEDs that product a wide beam of light that transmit and receive in both directions of the fiber. LEDs do not allow for long transmission distances, therefore they are typically for short distance networks such as a LAN (Local Area Network). Multimode fibers support both 1GB and 10GB Ethernet protocol. 50μ multimode fibers support 10GB at distances from 150 meter to 600 meters in length.

F	6M	06	LN	R
F - Fiber	Fiber Grade	Fiber Count	Construction	Cable Style
	8S - Singlemode	06	LA - Loose-Tube Armored	PI - Plenum Indoor
	51 - 50μ, 150M @ 10G	12	LN - Loose-Tube Non-Armored	RI - Riser Indoor
	53 - 50μ, 300M @ 10G	24	TA - Tight-Buffer Armored	ZI - Low Smoke Zero Halogen
	6M - 62.5μ		TN - Tight-Buffer Non-Armored	PIO - Plenum Indoor/Outdoor
				RIO - Riser Indoor/Outdoor
				ZIO - LSZH Indoor/Outdoor
				AO - Outdoor (Arid Core)
				GO - Outdoor (Gel filled)

How to identify the Omni Cable Part Number

These identifiers will help you determine your fiber optic cable. The fiber grade, the fiber count, the construction, and the cable style. All fiber optic cable part numbers start with the letter F, and are then followed by these letters and numbers.

Cable Style	Omni Part #	Fiber Count	Plenum	Riser	Tight Buffer	Loose Tube	Single Mode	MultiMode		Armor	Outdoor - Tubes	
								50μm	62.5μm		Arid	Gel
 Indoor	F8S06TNPI	6	X		X		X					
	F8S12TNPI	12	X		X		X					
	F8S24TNPI	24	X		X		X					
	F8S06TAPI	6	X		X		X			X		
	F8S12TAPI	12	X		X		X			X		
	F5106TNPI	6	X		X			X				
	F5112TNPI	12	X		X			X				
	F5306TNPI	6	X		X			X				
	F5312TNPI	12	X		X			X				
	F5106TAPI	6	X		X			X		X		
	F5112TAPI	12	X		X			X		X		
	F5306TAPI	6	X		X			X		X		
	F5312TAPI	12	X		X			X		X		
	F6M06TNPI	6	X		X				X			
	F6M12TNPI	12	X		X				X			
	F6M24TNPI	24	X		X				X			
 Indoor/Outdoor	F8S06TNRIO	6		X	X		X					
	F8S12TNRIO	12		X	X		X					
	F8S06LNRIO	6		X		X	X					
	F8S12LNRIO	12		X		X	X					
	F6M06TNRIO	6		X	X				X			
	F6M12TNRIO	12		X	X				X			
	F6M06LNRIO	6		X		X			X			
	F6M12LNRIO	12		X		X			X			
	F6M06TNZIO	6			X				X			
	F6M12TNZIO	12			X				X			
 Outdoor	F8S12LAAO	12				X	X			X	X	
	F8S12LNAO	12				X	X				X	
	F6M06LNAO	6				X			X		X	
	F6M12LNAO	12				X			X		X	
	F6M12LAAO	12				X			X	X	X	
	F6M24LAAO	24				X			X	X	X	
	F6M06LNGO	6				X			X			X
	F6M12LNGO	12				X			X			X
	F8S06LNGO	6				X	X					X
	F8S12LNGO	12				X	X					X
	F6M06LAGO	6				X			X	X		X
	F6M12LAGO	12				X			X	X		X
	F8S06LAGO	6				X	X			X		X
	F8S12LAGO	12				X	X			X		X



AERIAL CABLES

Aluminum and Copper Conductors
600V to 35kV
Messengers - ACSR, Galvanized, or
Copperweld

COAXIAL CABLES

CATV/MATV
Computer, Twinaxial
Direct Burial
Plenum & Non-Plenum Constructions

COMPUTER & ELECTRONIC CABLES

Coaxial and Twinaxial Cables
Alpha Wire
Plenum & Non-Plenum Constructions
Fire Alarm Cable FPLR/FPLP
Security Grade
Special Constructions
Belden Equals

CONTROL CABLES

Bus Drop - 3 and 4 Conductors
Instrumentation Cable - 300V - 600V
SO - 5 through 37 Conductor
Tray Cable - VNTC, XLP, 20-10, FREP
EPR - CSPE 600V Single Conductor
XHHW & XLP-USE Copper Colors
SDN
VFD (Variable Frequency Drive)
IMSA

FLEXIBLE CABLES

Diesel - DLO 2kV
Motor Lead - 75°C to 200°C
Welding - 6 AWG through 500 MCM
Jumper Cable - 5 to 15kV
Lutze Industrial Cable

HIGH TEMPERATURE - 105°C TO 1000°C

Silicone - SRML, SF2, SFF2
TGGT, MGT
Teflon - E, EE, ET, FEP
Tefzel

MEDIUM VOLTAGE - 5 TO 35kV

Single and Multi Conductor
XLP and EPR Insulations
Self-Supporting Aerial Cable
PVC and CPE Jackets
Splice and Termination

HOOK-UP WIRE

UL 1007, UL 1015, UL 1061, UL 1569
MTW, TEW, AWM
Military Specification

ARMOR CABLES - 600 Volt to 15kV

Aluminum or Galvanized Steel Armor
Aluminum or Copper Conductors
Continuous Corrugated Armor

PLENUM CABLES

Article 725, 760, 800
Type CL2P, CMP, FPLP
200°C Teflon

PORTABLE CORDS

Type G, G-GC, SHD-GC
Type SO - Cord and Control
Type W - Magnet Crane

SWITCHBOARD - SIS

VW-1 - All Colors

TELEPHONE

Aerial and Duct - PE 22
Figure 8 - PE 38
Direct Burial - PE 89
Category 3, 5, LAN Cable

THERMOCOUPLE CABLES

Type JX, KX, EX, TX
Single and Multi Pair
Shielded and Nonshielded
All Insulations and Jackets

THERMOSTAT WIRE

UL - 18 AWG, 20 AWG, 22 AWG
Plenum - CL2P
Custom Put Ups Available

VALUE ADDED

Custom Dyeing
Striping
Twisting
Lashing
Bundled Omni Pull
Custom Numbering
Custom Engineered/Designed Cables

FIBER OPTIC CABLES

OFNR, OFNP, OSP