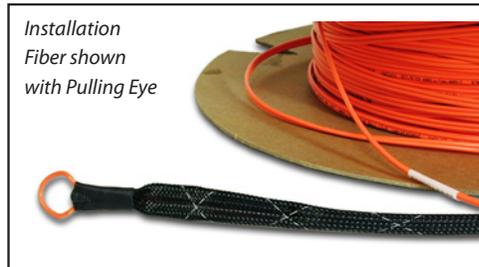


Description

Cable Types

Our fiber optic cables can be ordered in multiple configurations. There are three basic jacket types and 4 types of fiber cable. The three jacket types are:

- **PVC** - While PVC stands for Polyvinyl Chloride, much of today's fiber is being replaced by halogen free alternatives. In our application PVC is a general term used to describe a standard, lightweight flexible jacket used for general purpose installation applications.
- **Plenum** - Plenum rated jackets are designed for installation in air handling areas. When burned, the jacket does not release toxic gasses. Plenum jackets tend to be a little stiffer than PVC.
- **Tactical** - The tactical fiber we offer is a heavy glossy jacketed, 'breakout' cable. Each fiber strand is bundled with kevlar yarn and individually jacketed. All of those individual jackets are then bundled with more kevlar yarn and wrapped in a ruggedized rubber outer jacket. This is our most durable fiber for outdoor and portable applications.



The 4 fiber type designations OM1, OM2, OM3, OS1 and OS2 relate to cable transmission performance. In ISO/IEC 11801:2002 and EN50173:2002, four types of optical fibre are specified to support various classes of applications, three multimode optical fiber types (OM1, OM2, and OM3) and one single mode type (OS1). Tables in the specification section detail these performance differences.

- **OM1** fiber optic cable is the optical fiber cable with traditional **62.5/125 multimode fiber**. OM1 cable optical fiber is bigger core diameter; it makes the OM1 fiber better ability on concentrating the light and bend-resistance.
- **OM2** fiber optic cable refer to the commonly used **50/125 traditional multimode** fiber cable. OM2 is a standard for multimode cable defined by ISO/IEC 11801. OM1 and OM2 are both orange jacketed cable, and you cannot judge from the outer diameter to identify OM1 and OM2 fiber cable, because the 50/125 and 62.5/125 refer not to whole cable diameter but to the fiber inside.
- **OM3** is also **50/125 multimode** fiber and provides the **highest bandwidth** capability of the three multimode cables. It is compliant to ISO/IEC 11801 standards and has been developed according to the newest 10Gbit standards allowing the data transmission over a distance up to max 300 m at 850 nm using a VCSEL.
- **OS1** fiber optic cable is the commonly used **9/125 single mode** fiber cable. OS1 fiber cable standard was described in ISO/IEC 11801. OS1 fiber optic cables are widely used in telecommunications, data center and WAN. OS1 fiber cable products are both indoor types and outdoor types. Typical OS1 fiber optic cables are indoor types with yellow jacket color, the ones like you see on the fiber patch cables.

We can terminate your fiber cable in all of the standard connector types, see ordering chart for a list of connector options.

Fiber Cables

Features:

- Fiber Cables for installation and tactical applications
- Total immunity to electrical interference
- A variety of cable and connector options

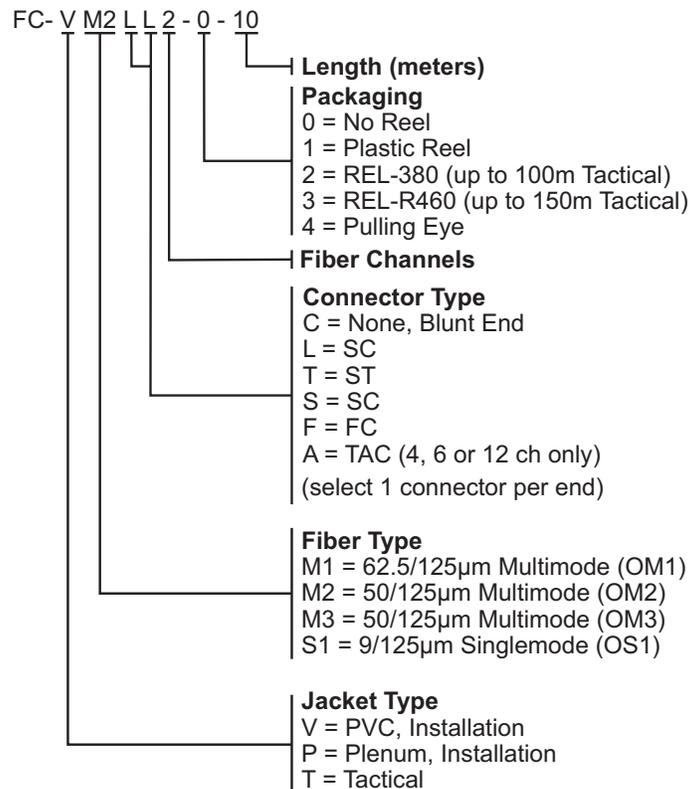
Specifications - Optical Fiber Attenuation

Maximum cable attenuation dB/km				
	OM1, OM2, and OM3 Multimode		OS1 Singlemode	
Wavelength	850 nm	1300 nm	1310 nm	1550 nm
Attenuation	3.5	1.5	1	1

Specifications - Multimode Optical Fiber Modal Bandwidth

		Minimum modal bandwidth MHz·km		
		Overfilled Launch Bandwidth		Effective Laser Launch Bandwidth
Wavelength		850 nm	1300 nm	850 nm
Optical fibre type	Core diameter			
OM1	50 µm or 62.5 µm	200	500	Not specified
OM2	50 µm or 62.5 µm	500	500	Not specified
OM3	50 µm	1500	500	2000

Ordering Info



NOTE:
Not all combinations are valid