

Tactical Fiber Optic Cable

Features and Benefits

Small diameter and bend radius

Easy installation in space-constrained areas

All-dielectric cable construction

Requires no grounding or bonding

Polyurethane outer jacket

Environmental and mechanical protection

Flexible

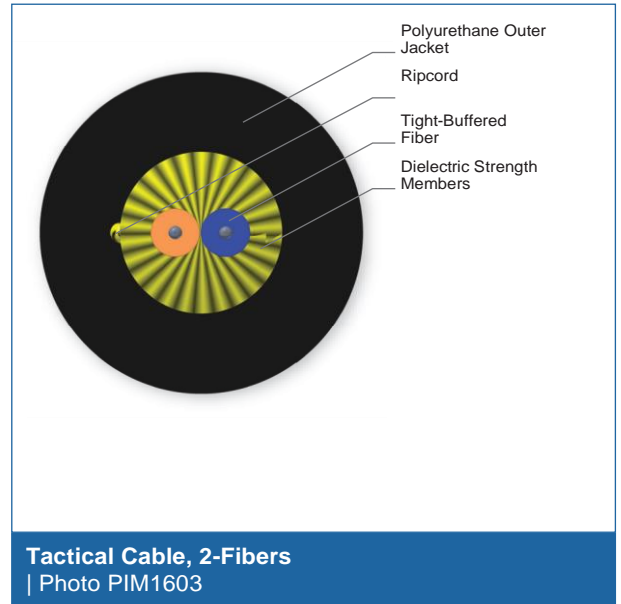
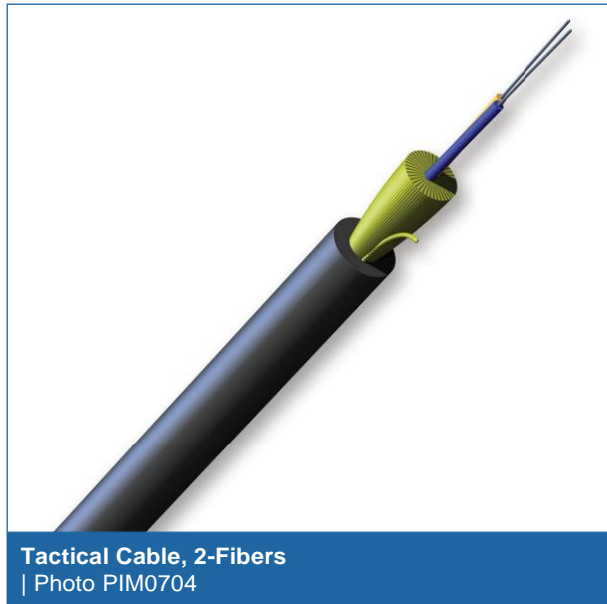
Facilitates portability

Standards

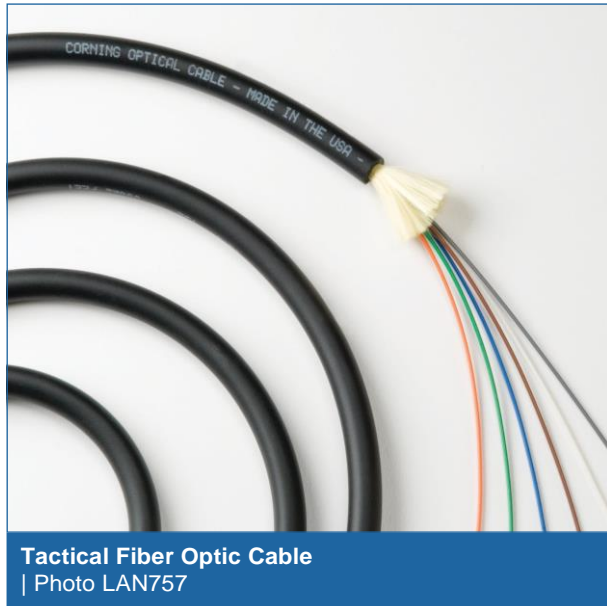
Design and Test Criteria MLF-PRF-85045F and MIL-PRF-85045F/8A

Corning outdoor tactical fiber optic cable is ideal for connecting modular telecommunications gear for secure, dependable communications, data or video. Applications include military mobile communications (temporary or permanent communication systems), traffic and video control (optical feeds in rugged environments), broadcast video (temporary or permanent setups at events), and industrial or other harsh environments (extreme conditions such as abrasive or chemical atmospheres and high crush environments).

This flexible cable uses 900 µm buffered fibers surrounded by dielectric strength members and is protected by a rugged polyurethane outer jacket that provides superior environmental and mechanical protection. The flexibility facilitates portability through deployment and retraction of the cable onto a reel. The all-dielectric cable construction requires no grounding or bonding, while the small diameter and bend radius allow easy installation in space-constrained areas. A TEMPEST rating is also available for this cable. This cable cannot be permanently installed aerially or above grade, however temporary installations that are aerial or above grade are acceptable. Corning optical fiber and the tactical fiber optic cable are manufactured in the United States.



Tactical Fiber Optic Cable



Specifications

Temperature Range	
Storage	-57 °C to 85 °C (-71 °F to 185 °F)
Installation	-46 °C to 71 °C (-51 °F to 160 °F)
Operation	-46 °C to 71 °C (-51 °F to 160 °F)

Mechanical Characteristics Cable							
Fiber Count	Nominal Outer Diameter	Product Type	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Min. Bend Radius Installation	Min. Bend Radius Operation	Weight
2	5.8 mm (0.2 in)	Dielectric	1450 N (327 lbf)	290 N (65 lbf)	58 mm (2.3 in)	29 mm (1.1 in)	28.2 kg/km (19 lb/1000 ft)
4	6.0 mm (0.2 in)	Dielectric	1500 N (337 lbf)	300 N (67 lbf)	60 mm (2.4 in)	30 mm (1.2 in)	31.3 kg/km (21 lb/1000 ft)
6	7.0 mm (0.3 in)	Dielectric	1750 N (393 lbf)	350 N (79 lbf)	70 mm (2.8 in)	35 mm (1.4 in)	40 kg/km (27 lb/1000 ft)
12	8.0 mm (0.31 in)	Dielectric	2000 N (450 lbf)	400 N (90 lbf)	80 mm (3.1 in)	40 mm (1.6 in)	53 kg/km (36 lb/1000 ft)

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Transmission Performance

Multimode			
Fiber Core Diameter (µm)	50	50	50
Fiber Category	OM2	OM3	OM4
Fiber Code	T	T	T
Performance Option Code	31	80	90
Wavelengths (nm)	850/1300	850/1300	850/1300
Maximum Attenuation (dB/km)	3.0/1.0	3.0/1.0	3.0/1.0
Serial 1 Gigabit Ethernet (m)	750/600	1500/500	1000/600
Serial 10 Gigabit Ethernet (m)	150/-	2000/-	550/-
Min. Overfilled Launch (OFL) Bandwidth (MHz*km)	700/500	1000/600	3500/500
Minimum Effective Modal Bandwidth (EMB) (MHz*km)	950/-	300/-	4700/-

* 50 µm multimode fiber (OM3/OM4) meets 0.75 ns optical skew when used in all Corning Plug & Play™/EDGE™ systems solutions.

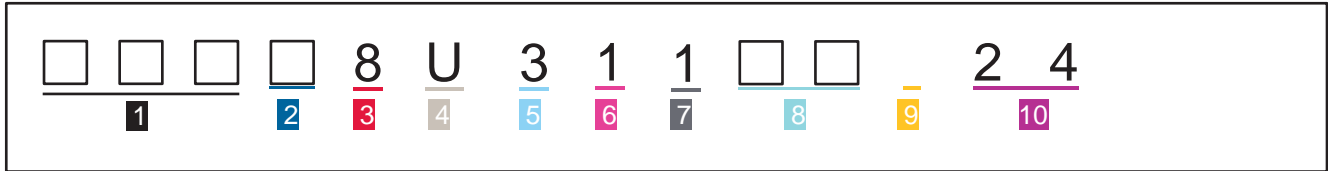
* 50 µm multimode fiber (OM4) T90 10 Gigabit Ethernet distance assumes 1.0 dB maximum total connector/splice loss.

Single-mode

Fiber Name	ClearCurve® LBL
Fiber Category	G.657.A2/G.657.B2
Fiber Code	J
Performance Option Code	31
Wavelengths (nm)	1310/1383/1550
Maximum Attenuation (dB/km)	0.65/0.65/0.5

Tactical Fiber Optic Cable

Ordering Information | *Note: Contact Customer Care at 1-800-743-2675 for other options.*



1 Select fiber count.
002 006
004 012

2 Defines fiber type.
T = 50 μ m multimode
(OM2/OM3/OM4)
J = Single-mode (G.657.A2/B2)
ClearCurve® LBL fiber

3 Defines cable type.
8 = Standard

4 Defines outer jacket.
Li = Polyurethane

5 Defines fiber placement.
3 = Standard

6 Defines length markings.
1 = Markings in feet
(standard)

7 Defines tensile strength.
1 = See specifications

8 Select performance option code.
31 = 50 μ m multimode (OM2)
80 = 50 μ m multimode (OM3)
90 = 50 μ m multimode (OM4)
31 = Single-mode (OS2)
(Max. attenuation 0.65/0.65/0.5 dB/km)

9 Defines cable type.
- = Standard

10 Defines special requirements.
24 = Standard