Tactical Fiber Optic Cable

A LANscape® Solutions Product

features and benefits |

Small diameter and bend radius	Easy installation in space-constrained areas
All-dielectric construction	Requires no grounding or bonding
Polyurethane outer jacket	Environmental and mechanical protection
Flexible	Facilitates portability

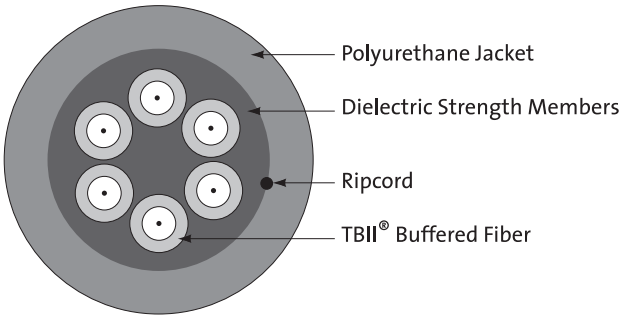
Corning Cable Systems Tactical Fiber Optic Cable is for routing in all environments or conditions between buildings and modular telecommunications gear for secure, dependable communications, data or video. Applications include military mobile communications (temporary or permanent communication systems), 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 TBII® 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

(continued)

RoHS COMPLIANT

Tactical Fiber Optic Cable | Photo LAN757



Tactical Cable, 6-Fiber | Drawing ZA-3070

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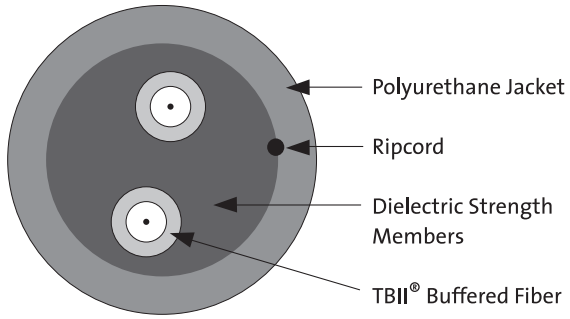
grounding or bonding, while the small diameter and bend radius allow easy installation in space-constrained areas. A TEMPEST rating is also available for this cable. Corning® Optical Fiber and the tactical fiber optic cable are manufactured in the U.S.A.



Tactical Cable, 2-Fiber | Drawing ZA-3069

specifications |

Temperatures	Storage:	-57° to +85°C (-71° to +185°F)
	Installation:	-46° to +71°C (-51° to +160°F)
	Operation:	-46° to +71°C (-51° to +160°F)
Design Criteria	MLF-PRF-85045F and MIL-PRF-85045F/8A	
Impact	2.2 N*m for 50 impacts at -46˚C, 100 impacts at room temperature and 50 impacts at 71˚C	

Fiber Count	Nominal Cable Weight kg/km (lb/1000 ft)	Nominal Outside Diameter mm (in)	Maximum Tensile Loads Short-Term N (lbf)	Long-Term N (lbf)	Minimum Bend Radius Loaded cm (in)	Installed cm (in)
2	27 (21.0)	5.8 (0.20)	1250 (281)	250 (56)	5.8 (2.3)	2.9 (1.1)
4	31 (23.0)	6.0 (0.20)	1500 (337)	300 (67)	6.0 (2.4)	3.0 (1.2)
6	40 (27.0)	7.0 (0.30)	1750 (393)	350 (79)	7.0 (2.8)	3.5 (1.4)
12	53 (36.0)	8.0 (0.31)	2000 (450)	400 (90)	8.0 (3.1)	4.0 (1.6)

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transmission performance |

	LANscape® 62.5 Solutions	Bend-Improved Single-Mode
Fiber Code	K	H
Performance Option Code	30	31
Optical Fiber Type (µm)	62.5 Multimode	Bend-Improved Single-mode*
ISO/IEC 11801 Nomenclature	OM1	OS2
Wavelength (nm)	850/1300	1310/1383/1550
Maximum Attenuation (dB/km)	3.4/1.0	0.65/0.65/0.5
Minimum Over Filled Launch (OFL) Bandwidth (MHz•km)	200/500	– / – / –
Minimum Effective Modal Bandwidth (EMB) (MHz•km)	220/ –	– / – / –
Serial 1 Gigabit Ethernet Distance (m)	300/550	5000/ – / –
Serial 10 Gigabit Ethernet Distance (m)	33/ –	10000/ – /40000

** ITU 652.D compliant, ITU 657.A compliant.*

Notes:
1) Bend-insensitive single-mode fibers available on request.
2) Contact a Corning Cable Systems Customer Service Representative for additional information.

ordering information | Contact Customer Service at 800-743-2671 for other options.

☐	☐	☐	☐	8	U	-	3	1	1	☐	☐	-	2	4
|1	|2	|3	|4	|5	|6		|7	|8	|9	|10	|11	|12	|13	|14

|1-3

Select fiber count.
Standard offerings:
002 006
004 012

|4

Select fiber code (see Transmission Performance table).

|5 / 12

Defines cable type.
8 / - = Standard

|6

Defines outer jacket.
U = Polyurethane

|7

Defines fiber placement.
3 = Standard

|8

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

|9

Defines tensile strength (see Specifications).

|10-11

Select performance option code (see Transmission Performance table).

|13-14

Defines special requirements.
24 = Standard

ordering information | (continued)

Part Number Examples

Part Number	Description
002K8U-31130-24	Tactical Cable, 2-fiber, polyurethane jacket, 62.5 µm, 200/500 MHz•km, print in ft
004K8U-31130-24	Tactical Cable, 4-fiber, polyurethane jacket, 62.5 µm, 200/500 MHz•km, print in ft
006K8U-31130-24	Tactical Cable, 6-fiber, polyurethane jacket, 62.5 µm, 200/500 MHz•km, print in ft
012K8U-31130-24	Tactical Cable, 12-fiber, polyurethane jacket, 62.5 µm, 200/500 MHz•km, print in ft
002H8U-31131-24	Tactical Cable, 2-fiber, polyurethane jacket, Corning® SMF-28e® XB fiber, print in ft
004H8U-31131-24	Tactical Cable, 4-fiber, polyurethane jacket, Corning SMF-28e XB fiber, print in ft
006H8U-31131-24	Tactical Cable, 6-fiber, polyurethane jacket, Corning SMF-28e XB fiber, print in ft
012H8U-31131-24	Tactical Cable, 12-fiber, polyurethane jacket, Corning SMF-28e XB fiber, print in ft

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