

Tactical Tight-Buffered Cable

12 F, Bend-improved Single-mode (OS2)

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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 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.

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

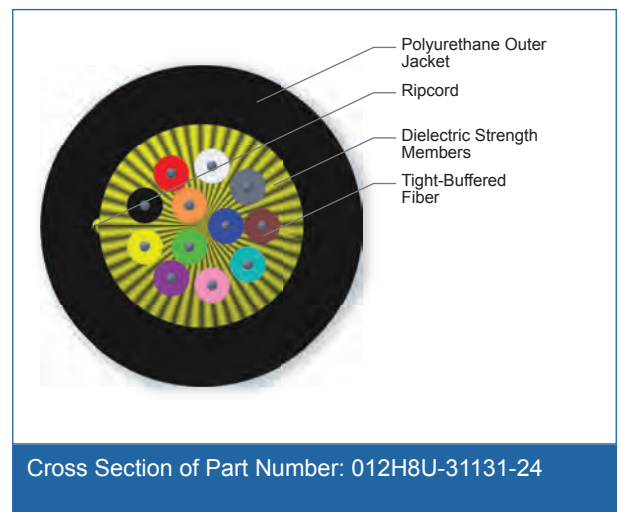
Environmental and mechanical protection

Flexible

Facilitates portability

Standards

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



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Specifications

General Specifications

Environment	Outdoor
Application	Direct Buried, Duct
Cable Type	Tight-Buffered
Product Type	Dielectric
Fiber Category	SM R10 (OS2)

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)

Cable Design

Fiber Count	12
Tight Buffer Color	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	1
Outer Jacket Material	Polyurethane (PU)
Outer Jacket Color	Black

Mechanical Characteristics Cable

Impact Resistance	2.2 N*m for 50 impacts at -46°C, 100 impacts at room temperature and 50 impacts at 71°C
Weight	53 kg/km (36 lb/1000 ft)
Nominal Outer Diameter	8 mm (0.31 in)
Max. Tensile Strengths, Short-Term	2000 N (450 lbf)
Max. Tensile Strengths, Long-Term	400 N (90 lbf)
Min. Bend Radius Installation	80 mm (3.1 in)
Min. Bend Radius Operation	40 mm (1.6 in)

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Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
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Fiber Specifications

Optical Characteristics (cabled)

Fiber Type	Bend-Improved Single-mode (OS2)
Fiber Core Diameter	9 µm
Fiber Category	OS2
Fiber Code	H
Performance Option Code	31
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.65 dB/km / 0.65 dB/km / 0.5 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

* ITU-T G.652 D compliant.

Notes: 1) Improved attenuation and bandwidth options available.
2) Bend-insensitive single-mode fibers available on request.
3) Contact a Corning Cable Systems Customer Care Representative for additional information.

Ordering Information

Part Number	012H8U-31131-24
Product Description	Tactical Tight-Buffered Cable, 12 F, Bend-improved Single-mode (OS2)



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