

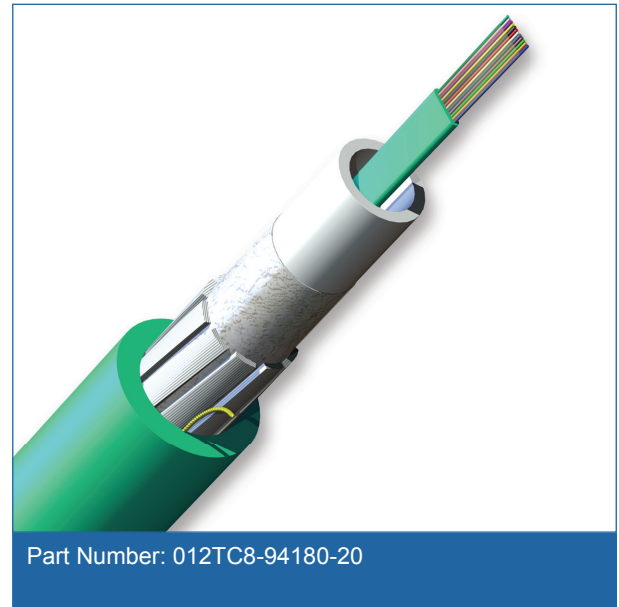
Ruggedized Ribbon Cable, Plenum

12 F, 50 μ m multimode (OM3)

CORNING

Corning ruggedized ribbon plenum cables are designed for intrabuilding backbones in plenum, riser and general-purpose installation. With a flame-retardant outer jacket that meets the requirements of the National Electrical Code® (NEC®), Article 770-51(A) and NFPA 262 flame tests, the cables are also ideal for data centers and segregating secure traffic on protected distribution systems (PDS). The cables consist of fibers organized into easily identifiable 12-fiber ruggedized ribbons inside a central tube with readily identifiable ribbon ID numbers and fiber colors which allow easy access of individual fibers. Dielectric strength members provide tensile strength. These cables are compatible with standard ribbon cable procedures and hardware.

This cable is available in 12 different jacket colors – blue, orange, green, brown, slate, white, red, black, yellow, violet, rose and aqua. The colored jacket allows for easy visual identification of the cables. The standard jacket color will be determined by the dominant fiber type in the cable and will use the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.



Part Number: 012TC8-94180-20

Features and Benefits

Precise fiber and ribbon geometries

Excellent mass splicing yields

Ribbon ID numbers and fiber colors

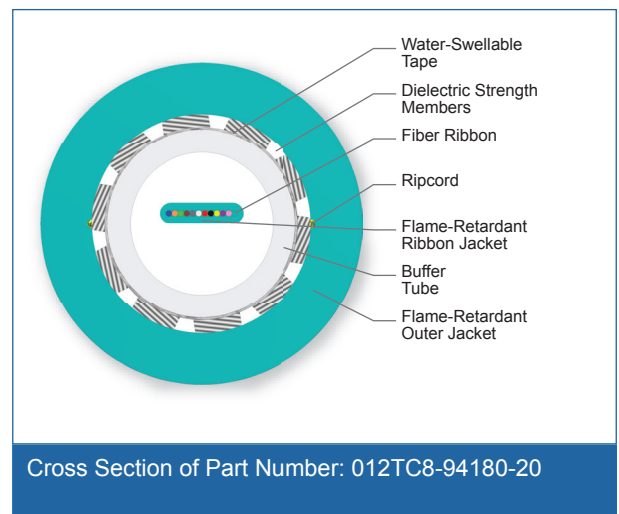
Easily identifiable

Dielectric strength members

Additional mechanical durability

Common installations

Indoor plenum, riser and general building applications



Cross Section of Part Number: 012TC8-94180-20

Standards

Listings	National Electrical Code® (NEC®) OFNP
Design Criteria	CSA FT-6
Test Criteria	ANSI/ICEA S-83-596

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Specifications

General Specifications	
Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Ribbon
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	50 μ m MM (OM3)

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	0 °C to 60 °C (32 °F to 140 °F)
Operation	0 °C to 70 °C (32 °F to 158 °F)

Cable Design	
Fiber Count	12
Ribbons per Tube	1
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Ribbon jacket material	Flame-retardant
Ribbon jacket color	Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	8.1 mm (0.32 in)
Tape	Water-swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Aqua

Mechanical Characteristics Cable	
Max. Tensile Strength, Short-Term	1320 N (300 lbf)
Max. Tensile Strength, Long-Term	400 N (90 lbf)
Weight	195 kg/km (131 lb/1000 ft)
Nominal Outer Diameter	13.6 mm (0.5 in)

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Mechanical Characteristics Cable

Min. Bend Radius Installation	204 mm (8 in)
Min. Bend Radius Operation	136 mm (5.4 in)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Fiber Specifications

Optical Characteristics (cabled)

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

* Meets 0.75 ns optical skew when used in all Corning Plug and Play™/EDGE™ systems solutions.

Notes: 1) 50 µm multimode fiber macrobend loss ≤ 0.2 dB at 850 nm for two turns around 7.5 mm radius mandrel.
2) Improved attenuation and bandwidth options available.
3) Bend-insensitive single-mode fibers available on request.
4) Contact a Corning Customer Care Representative for additional information.

Ordering Information

Part Number	012TC8-94180-20
Product Description	Ruggedized Ribbon Cable, Plenum, 12 F, 50 µm multimode (OM3)
EAN Code	4056418178967

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The CORNING logo is displayed in white, uppercase letters within a solid blue square.

Notes



Corning Optical Communications LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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