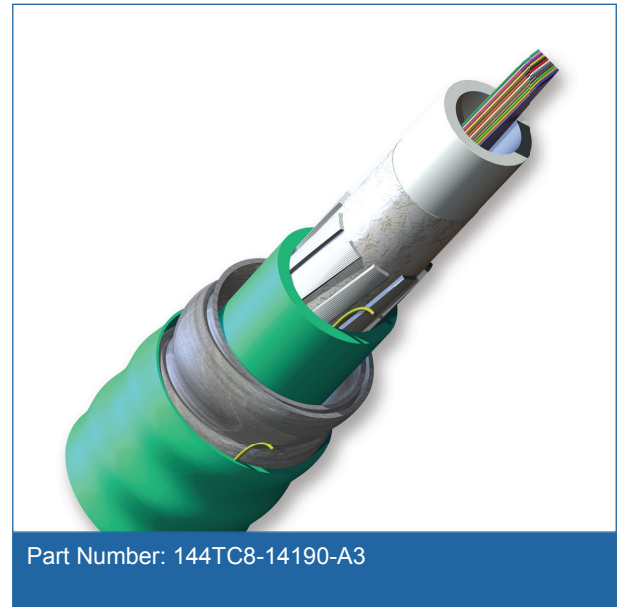


Ribbon Interlocking Armored Cable, Plenum

144 F, 50 µm multimode (OM4)

CORNING

Corning ribbon interlocking armored plenum cables are designed for use in plenum, riser and general-purpose environments for intrabuilding backbone and horizontal installations. These cables are standard ribbon plenum cables placed inside spirally wrapped aluminum interlocking armor for ruggedness and superior crush resistance. This special construction facilitates routing inside buildings, through riser shafts and air-handling spaces, to telecommunication rooms and to workstations. Ideal for heavy traffic or more challenging mechanical exposure conditions, this cable design consists of fibers organized into 12-fiber ribbons inside a central tube surrounded by dielectric strength members to provide tensile strength. The flexible interlocking armor offers up to seven times the crush protection of nonarmored cables, while a specially formulated flame-retardant outer jacket allows the design to meet the requirements of the NFPA 262 flame test. The 12-fiber ribbons have readily identifiable ribbon ID numbers and fiber colors with easy access to individual fibers.



Features and Benefits

Ribbon ID numbers and fiber colors

Easily identifiable

Precise fiber and ribbon geometries

Excellent mass splicing yields

Flame-retardant jacket

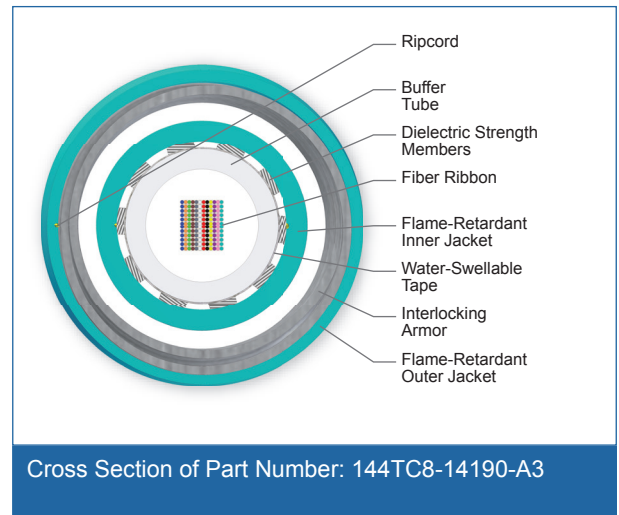
Rugged and durable

Flexible interlocking armor

Up to seven times the crush protection compared to non-armored cables

Common installations

Indoor plenum, riser and general building applications



Standards

Listings

National Electrical Code®
(NEC®) OFNP

Design Criteria

CSA FT-6

Test Criteria

ANSI/ICEA S-83-596

CORNING

Ribbon Interlocking Armored Cable, Plenum

144 F, 50 µm multimode (OM4)

CORNING

Specifications

General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Ribbon
Product Type	Interlocking Armor
Flame Rating	Plenum (OFCP)
Fiber Category	50 µm MM (OM4)

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	144
Ribbons per Tube	12
Fibers per Ribbon	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	11 mm (0.43 in)
Tape	Water-Swellable
Tensile Strength Elements and/or Armoring - Layer 1	Dielectric strength members
Number of Ripcords	2
Inner Jacket Material	Flame-retardant
Tensile Strength Elements and/or Armoring - Layer 3	Interlocking Armor
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)
Nominal Inner Cable Diameter	15.5 mm (0.61 in)
Nominal Outer Diameter	22.5 mm (0.89 in)

Ribbon Interlocking Armored Cable, Plenum

144 F, 50 µm multimode (OM4)

CORNING

Mechanical Characteristics Cable

Min. Bend Radius Installation	337.5 mm (14.9 in)
Min. Bend Radius Operation	225 mm (8.9 in)
Weight	400 kg/km (289.3 lb/1000 ft)

Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
------	---

Fiber Specifications

Optical Characteristics (cabled)

Fiber Core Diameter	50 µm
Fiber Category	OM4
Fiber Code	T
Performance Option Code	90
Wavelengths	850 nm / 1300 nm
Maximum Attenuation	3.0 dB/km / 1.0 dB/km
Serial 1 Gigabit Ethernet	1100 m / 600 m
Serial 10 Gigabit Ethernet	550 m / -
Min. Overfilled Launch (OFL) Bandwidth	3500 MHz*km / 500 MHz*km
Minimum Effective Modal Bandwidth (EMB)	4700 MHz*km / -

* Assumes 1.0 dB maximum total connector/splice loss.

* 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	144TC8-14190-A3
Product Description	Ribbon Interlocking Armored Cable, Plenum, 144 F, 50 µm multimode (OM4)
EAN Code	4056418178028

CORNING

Ribbon Interlocking Armored Cable, Plenum

144 F, 50 μ m multimode (OM4)

The Corning logo consists of a solid blue square with the word "CORNING" in white, uppercase, sans-serif font centered within it.

CORNING

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

A complete listing of the trademarks of Corning Optical Communications is available at www.corning.com/opcomm/trademarks.

All other trademarks are the properties of their respective owners. Corning Optical Communications is ISO 9001 certified.

© 2018 Corning Optical Communications. All rights reserved.

The Corning logo consists of the word "CORNING" in a large, bold, sans-serif font.