

# Ribbon Cable, Plenum

144 F, Single-mode (OS2)

CORNING

Corning Cable Systems Ribbon Plenum Cables are designed for use in plenum, riser and general purpose environments for intrabuilding backbone installations and for high-fiber-count data centers. These cables consist of 12 to 216 fibers organized into 12-fiber ribbons inside a central tube. Dielectric strength members provide tensile strength 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. The precise fiber and ribbon geometries result in excellent mass splicing yields. The ribbon plenum cables are available preconnectorized for easy field installation and reduced labor costs and compatible with standard ribbon cable procedures and hardware. These cables are also OFNP and FT-6 listed and RoHS compliant.

This cable is available in 12 different jacket colors - blue, orange, green, brown, slate, white, red, black, yellow, purple, 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.

## Features and Benefits

### Precise fiber and ribbon geometries

Excellent mass splicing yields

### Gel-free waterblocking technology

Craft-friendly cable preparation

### Innovative waterblocking technology

Prevents water penetration

### Flame-retardant jacket

Rugged and durable

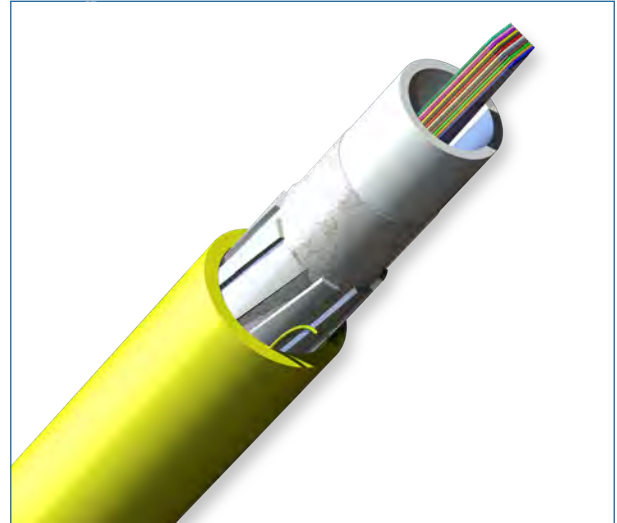
## Standards

### Approval and Listings

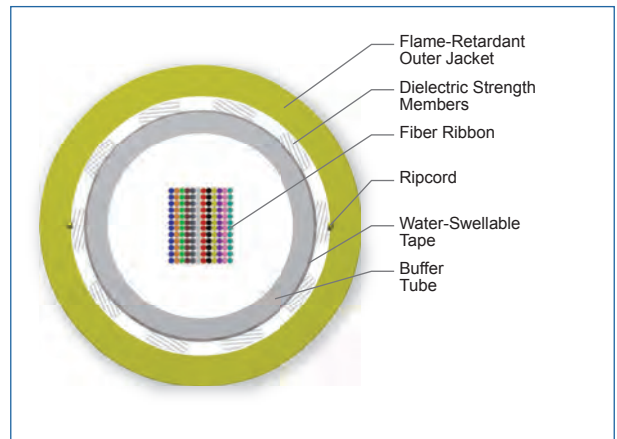
National Electrical Code®  
(NEC®) OFNP, CSA FT-6,  
ICEA S-83-596

### Common Installations

Indoor plenum, riser and  
general building applica-  
tions



Part Number: 144EC8-14101-20



Cross Section of Part Number: 144EC8-14101-20

CORNING

# Ribbon Cable, Plenum

144 F, Single-mode (OS2)

CORNING

## Standards

### Flame Resistance

NFPA 262 (for plenum, riser and general building applications)

## Specifications

### General Specifications

Environment	Indoor
Application	General Purpose Horizontal, Vertical Riser, Plenum
Cable Type	Ribbon
Product Type	Distribution
Flame Rating	Plenum (OFNP)
Fiber Category	Single-mode (OS2)

### 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
Outer Jacket Material	Flame-retardant
Outer Jacket Color	Yellow

CORNING

# Ribbon Cable, Plenum

144 F, Single-mode (OS2)

CORNING

## Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	1320 N (300 lbf)
Max. Tensile Strengths, Long-Term	400 N (90 lbf)
Weight	220 kg/km (148 lb/1000 ft)
Nominal Outer Diameter	15.5 mm (0.61 in)
Min. Bend Radius Installation	233 mm (9.2 in)
Min. Bend Radius Operation	155 mm (6.1 in)

## Chemical Characteristics

RoHS	Free of hazardous substances according to RoHS 2002/95/EG
------	---

## Fiber Specifications

### Optical Characteristics (cabled)

Fiber Type	Single-mode
Fiber Core Diameter	8.2 µm
Fiber Category	OS2
Fiber Code	E
Performance Option Code	01
Wavelengths	1310 nm / 1383 nm / 1550 nm
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Serial 1 Gigabit Ethernet	5000 m / - / -
Serial 10 Gigabit Ethernet	10000 m / - / 40000 m

\* ITU-T G.652 D compliant.

\* Meets 0.75 ns optical skew when used in all Corning Cable Systems Plug & Play™/Pretium EDGE® Systems Solutions.

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.

CORNING

# Ribbon Cable, Plenum

144 F, Single-mode (OS2)

CORNING

## Ordering Information

Part Number	144EC8-14101-20
Product Description	Ribbon Cable, Plenum, 144 F, Single-mode (OS2)



Corning Cable Systems LLC • PO Box 489 • Hickory, NC 28603-0489 USA

800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/cablesystems](http://www.corning.com/cablesystems)

A complete listing of the trademarks of Corning Cable Systems is available at [www.corning.com/cablesystems/trademarks](http://www.corning.com/cablesystems/trademarks).

Corning Cable Systems is ISO 9001 certified. © 2012 Corning Cable Systems. All rights reserved.

CORNING