

UltraRibbon™ Riser Gel-Free Interlocking Armored Cable

432 F, 50 μm multimode (OM4)

CORNING

Corning UltraRibbon™ riser gel-free interlocking armored cables continue the innovative breakthrough in indoor cable technology with a new generation of high-fiber-count single tube cables. Encased in spirally wrapped aluminum interlocking armor for ruggedness and superior crush resistance, these cables are ideal for industrial and heavy traffic areas and installations requiring extra protection for optical cables. A specially formulated flame-retardant jacket allows this cable the flexibility to be used in indoor general purpose horizontal and riser applications.

The cable consists of a single buffer tube containing a stack of up to eighteen 24-fiber ribbons. Available in fiber counts from 288 to 432, each 24-fiber ribbon can be easily separated by hand into two 12-fiber ribbons. The 12-fiber ribbons have readily identifiable ribbon IDs, fiber colors and geometries that result in excellent mass-splicing yields.

Features and Benefits

Each 12-fiber ribbon individually numbered
Easy identification

Precise fiber and ribbon geometries in a gel-free design
Excellent mass splicing yields

Flame-retardant jacket
Rugged and durable

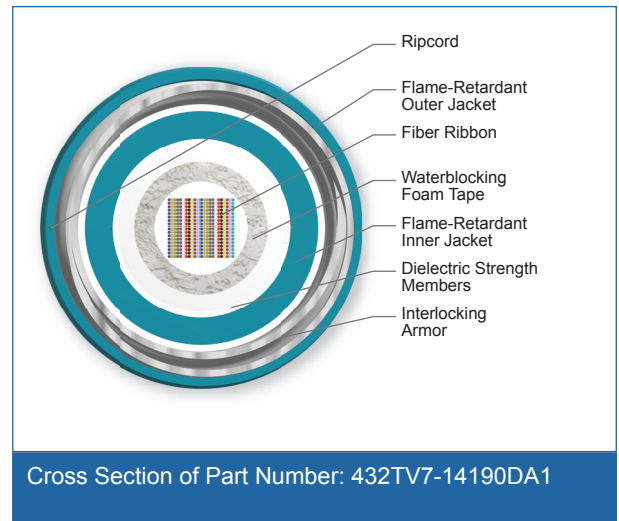
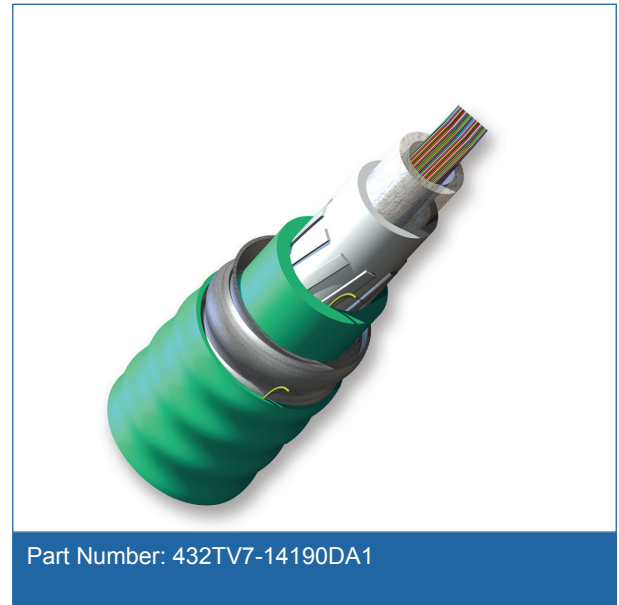
Up to 432 fibers in a compact design
Easily fits in 1.25-in diameter inner duct

Flexible interlocking armor
More than seven times the crush protection compared to non-armored cables

Common installations
Indoor vertical riser and general purpose horizontal according to National Electrical Code® (NEC®) Article 770

Standards

Listings	National Electrical Code® (NEC®) OFNR
Design Criteria	CSA FT-4
Test Criteria	ANSI/ICEA S-83-596



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Specifications

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

Temperature Range	
Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation	-10 °C to 60 °C (14 °F to 140 °F)
Operation	-20 °C to 70 °C (-4 °F to 158 °F)

Cable Design	
Fiber Count	432
Ribbons per Tube	18
Fibers per Ribbon	24
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Buffer Tube Color	Natural
Buffer Tube Diameter	15.4 mm (0.60 in)
Tape	Waterblocking foam tape
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)
Min. Bend Radius Installation	482 mm (18.9 in)
Min. Bend Radius Operation	321 mm (12.6 in)
Nominal Outer Diameter	30.11 mm (1.19 in)
Weight	580 kg/km (389 lb/1000 ft)

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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 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	432TV7-14190DA1
Product Description	UltraRibbon™ Riser Gel-Free Interlocking Armored Cable, 432 F, 50 µm multimode (OM4)



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