

Industrial LSZH™ Loose Tube, Gel-Free Cable

12 F, Single-mode (OS2)

CORNING

Corning Cable Systems Industrial LSZH™ Fiber Optic Cables are designed for industrial building backbones and harsh environments atypical of traditional datacom systems. Based on proven stranded loose tube cable designs, these tray-rated industrial cables are flame-retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. They have also demonstrated superior performance levels when tested to specified “tray” application requirements for compressive loading, cyclic impact and chemical resistance. The 250 µm color-coded individual fibers offer quick and easy identification during installation.

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 while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket color using the standard part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other color options.

Features and Benefits

Low-smoke/zero-halogen (LSZH™) sheath

Key life-safety benefit

Meets cyclic impact and chemical resistance test

Superior performance

Tray-rated per UL 13; UL 444; UL 1277; UL 1685; CSA C22.2 No. 230 and No. 232

Tested to industrial ruggedness standards

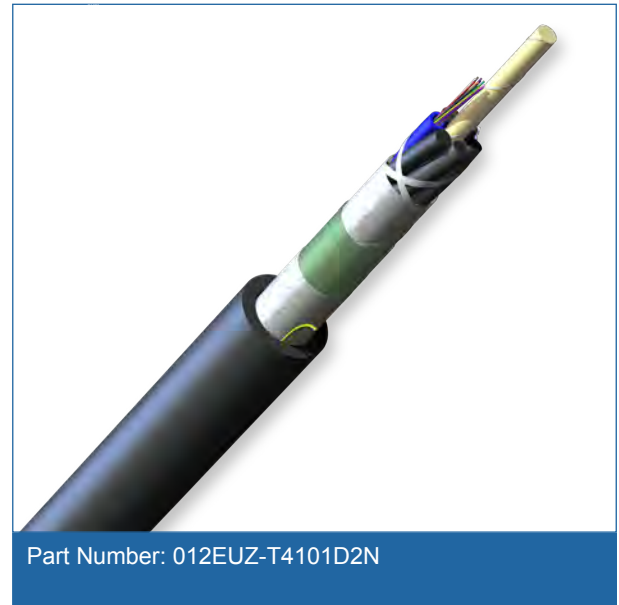
Listed OFN-LS and CSA FT4-ST1, IEC 60332-3, IEC 61034 and IEC 60754-2

Meets burn test criteria

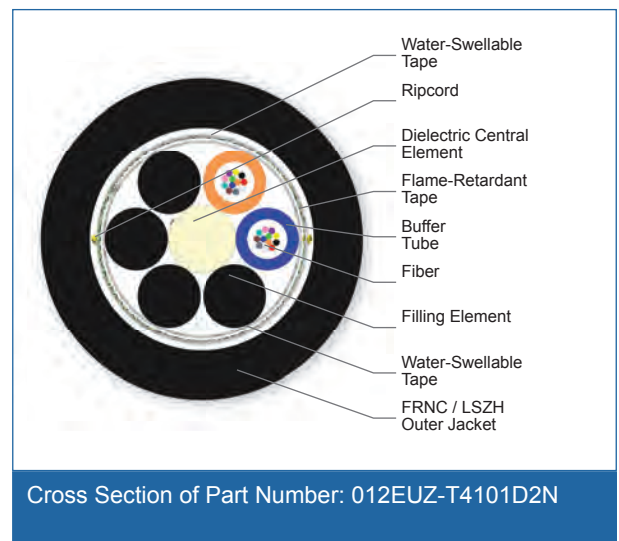
Standards

Approval and Listings

National Electrical Code® (NEC®) OFN-LS; OFN FT4-ST1; Sunlight Resistant (SUN RES); IEEE-383 flame test; Suitable for Direct Buried (DIR BUR); IEC 60332-3, IEC 60754-2, IEC 61034



Part Number: 012EUZ-T4101D2N



Cross Section of Part Number: 012EUZ-T4101D2N

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Standards

Common Installations Outdoor lashed aerial and duct; indoor general purpose horizontal according to National Electrical Code® (NEC®) Article 770

Design and Test Criteria ANSI/ICEA S-104-696; UL 13; US 444: UL 1685; UL 1277; CSA C22.2, No. 230 and No. 232

Specifications

General Specifications

Environment	Indoor/Outdoor Cables
Application	Aerial, Direct Buried, Duct, Tray Rated, (General Purpose Horizontal)
Cable Type	Loose Tube
Product Type	Dielectric
Flame Rating	LSZH™ (OFN-LS)
Fiber Category	Single-mode (OS2)

Temperature Range

Storage	-40 °C to 75 °C (-40 °F to 167 °F)
Installation	-30 °C to 60 °C (-22 °F to 140 °F)
Operation	-40 °C to 75 °C (-40 °F to 167 °F)

Cable Design

Central Element	Dielectric
Fiber Count	12
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Number of Tube Positions	6
Number of Active Tubes	1
Buffer Tube Color Coding	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Number of Filling Elements	5

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Cable Design

Tape	Water-swellable
Tape, Layer 2	Flame-retardant tape
Tape, Layer 3	Water-swellable
Number of Ripcords	2
Outer Jacket Material	Flame-retardant, non-corrosive / low-smoke, zero-halogen (FRNC / LSZH) material
Outer Jacket Color	Black

Mechanical Characteristics Cable

Max. Tensile Strengths, Short-Term	2700 N (600 lbf)
Max. Tensile Strengths, Long-Term	810 N (180 lbf)
Weight	140 kg/km (94 lb/1000 ft)
Nominal Outer Diameter	12.5 mm (0.49 in)
Min. Bend Radius Installation	188 mm (7.4 in)
Min. Bend Radius Operation	125 mm (4.9 in)

Chemical Characteristics

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

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* 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.*

Ordering Information

Part Number	012EUZ-T4101D2N
Product Description	Industrial LSZH™ Loose Tube, Gel-Free Cable, 12 F, Single-mode (OS2)



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