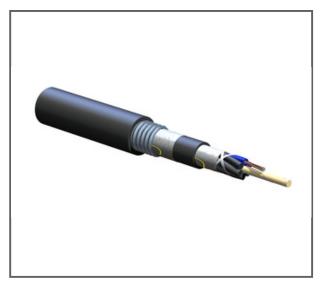


Part Number: 012EUV-T4101D2N

Corning 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 industrial cables are flame-retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. The 250 µm color-coded individual fibers offer quick and easy identification during installation.

Corning Industrial LSZH™ cables provide lifesafety benefits for industrial applications through the cables' construction. Many traditional data communication cables contain halogens in the jacket compound, which pose little risk in the controlled and protected environment of typical building air spaces, such as behind walls, under floors and in conduit. However, cables deployed in industrial applications, particularly on the plant floor, are typically exposed to greater risk of fire, extreme temperatures or chemical exposure. This often makes halogen cables inappropriate for industrial environments.



Features and Benefits

Low-smoke, zero-halogen sheath

Key life-safety benefit

Meets cyclic impact and chemical resistance test

Superior performance

Corrugated armor

Mechanical protection

Common installations

Outdoor aerial and duct; indoor riser and general purpose horizontal according to NEC Article 770



Specifications

Mechanical Specifications	
Max. Tensile Strength, Long-Term	810 N
Max. Tensile Strength, Short-Term	2700 N
Min. Bend Radius Installation	222 mm (8.74 in)
Min. Bend Radius Operation	148 mm (5.83 in)
Nominal Outer Diameter	14.8 mm (0.58 in)

Cable Design	
Central Element	Dielectric
Fiber Count	12
Buffer Tube Color Coding	Blue
Number of Ripcords	3
Outer Jacket Color	Black
Outer Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Tensile Strength Elements and/or Armoring - Layer 1	Corrugated steel tape armor
Buffer Tube Color	Blue
Buffer Tube Diameter	2.5 mm (0.1 in)
Inner Jacket Material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Number of Active Tubes	1
Number of Filling Elements	5
Number of Tube Positions	6



Cable Design	
Tape	Water-swellable
Tape, Layer 2	Flame-retardant tape
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

Environmental Conditions	
Temperature Range, Installation	-30 °C - 60 °C (-22 °F - 140 °F)
Temperature Range, Storage	-40 °C - 70 °C (-40 °F - 158 °F)
Temperature Range, Operation	-40 °C - 70 °C (-40 °F - 158 °F)

General Specifications		
Environment	Indoor/Outdoor	
Cable Type	Loose Tube	
Product Type	Corrugated Steel Armor	
Fiber Category	Single-mode (OS2)	
Flame Rating	LSZH™ (OFCR-LS)	
Application	Aerial , Direct Buried , Duct , Tray-Rated	

Ordering Information	
Weight	238 kg/km



Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	National Electrical Code® (NEC®) OFCR-LS/Riser, Sunlight Resistant (SUN RES), IEEE-1202 flame test, Suitable for Direct Burial (DIR BUR), IEC 60332-3, IEC 60754-2, IEC 61034
Design and Test Criteria	ANSI/ICEA S-104-696, UL 13, UL 444, UL 1277, UL 1666, CSA C22.2 No. 230 and No. 232, CSA OFC (FT-4-S1)

Optical Characteristics	
Fiber Code	Е
Fiber Name	Single-mode (OS2)
Fiber Type	Single-mode
Performance Option Code	01
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Category	G.652.D



Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC • 28216 • United States 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. © 2020 Corning Optical Communications. All rights reserved.