

Industrial LSZH™ Tray-Rated, Loose Tube, Gel-Free Cable

6 fibres, single-mode (OS2)

CORNING

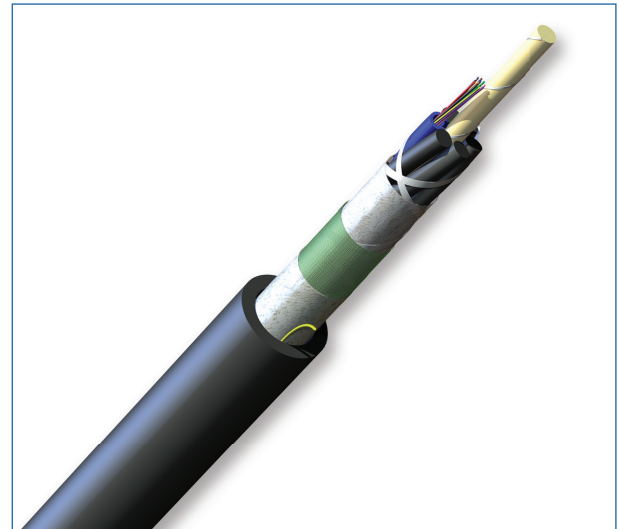
Corning Industrial LSZH™ fibre optic cables are designed for industrial building backbones and harsh environments atypical of traditional datacom systems. Based on proven stranded loose tube cable designs, these industrial cables are flame-retardant and have been tested to meet mechanical/environmental conditions exceeding the requirements set for traditional datacom cables. The 250 µm color-coded individual fibres offer quick and easy identification during installation.

Corning Industrial LSZH cables provide life-safety 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. When cables containing halogens ignite, they emit highly reactive gases that can be harmful if inhaled. When halogens combine with water, acids are formed. These acids damage both living tissue and inorganic materials, such as metal and electronic equipment. Corning industrial LSZH cables eliminate these risks in the event of a fire in the industrial environment. In addition, the LSZH compound does not drip when superheated; the material burns to ash, eliminating the onset of secondary fires.

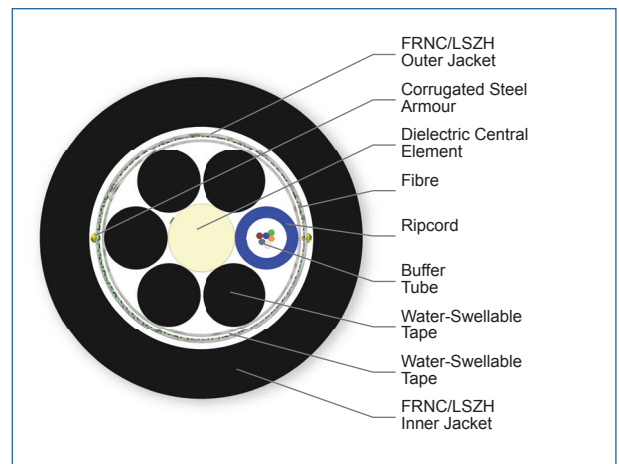
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Note: This cable is available in 12 different jacket colours – blue, orange, green, brown, grey, white, red, black, yellow, violet, pink and turquoise. The coloured jacket allows for easy visual identification of the cables while still providing all of the required environmental protection of an indoor/outdoor cable jacket. Black is the standard jacket colour using the part numbers shown here. Contact Customer Care at 1-800-743-2675 to order other colour options.



Part Number: 006EUZ-T4101D2N



Cross Section of Order Number: 006EUZ-T4101D2N

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Features and Benefits

Low-smoke, zero-halogen sheath

Key life-safety benefit

Meets cyclic impact and chemical resistance test

Superior performance

Available in MSHA versions

Mine Safety and Health Administration approved

Common installations

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

Standards

Listings

National Electrical Code® (NEC®) OFCR-LS, Sunlight Resistant (SUN RES); IEEE-383/IEEE-1202 flame test; Suitable for Direct Burial (DIR BUR); IEC 60332-3, IEC 60754-2, IEC 61034; MSHA 30 CFR Part 7-K, Section 7.408

Design Criteria

CSA OFC FT-4-ST1

Test Criteria

ANSI/ICEA S-104-696; UL 13; UL 444; UL 1277; UL 1685; CSA C22.2 No. 230 and No. 232

Specifications

General Specifications	
Environment	Indoor / Outdoor
Application	Aerial, Direct Buried, Duct, Tray Rated, (General Purpose Horizontal)
Cable type	Loose Tube
Product type	Dielectric
Flame rating	LSZH™ (OFN-LS)
Fibre category	single-mode (OS2)

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Temperature Range

Storage	-40 °C to 70 °C (-40 °F to 158 °F)
Installation and assembly	-30 °C to 60 °C (-22 °F to 140 °F)
Operation	-40 °C to 70 °C (-40 °F to 158 °F)

Cable design

Central Element	Dielectric
Fibre count	6
Fibre colouring	Blue, orange, green, brown, grey, white
Fibres per tube	6
Number of Tube Positions	6
Number of Active Tubes	1
Buffer tube colour coding	blue
Buffer tube diameter	2.5 mm (0.1 in)
Number of filling elements	5
Tape	Water-swellaable
Tape, Layer 2	Flame-retardant tape
Tape, Layer 3	Water-swellaable
Number of ripcords	2
Outer jacket material	Flame-retardant, non-corrosive/low-smoke, zero-halogen (FRNC/LSZH) material
Outer jacket colour	black

Mechanical Characteristics Cable

Max. tensile strength, short-term	2700 N (600 lbf)
Max. Tensile Strength, 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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Ordering Information

Part Number	006EUZ-T4101D2N
Product Description	Industrial LSZH™ Tray-Rated, Loose Tube, Gel-Free Cable, 6 F, Single-mode (OS2)



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