

Sensing Loose Tube, Gel-Filled Cables

CORNING

Corning Sensing all-dielectric cables are lightweight cables designed for duct and aerial (lashed) installation. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber.

Features and Benefits

Flexible, craft-friendly buffer tubes

Facilitate easy routing in closures

SZ-stranded, loose tube design

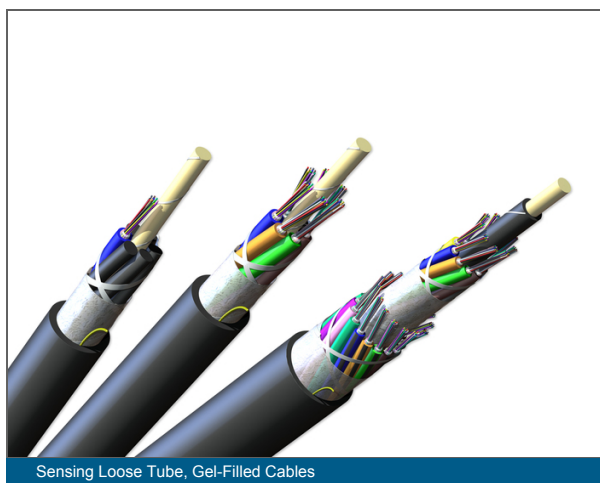
Isolates fibers from installation and environmental rigors and facilitates mid-span access

Dielectric central strength member

No preferential bend and requires no bonding or grounding

Polyethylene jacket

Rugged, durable and easy to strip (while providing superior protection against UV radiation, fungus, abrasion and other environmental factors)



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Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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Specifications

General Specifications

Environment	Outdoor
Product Type	Dielectric
Cable Type	Loose Tube

Temperature Range

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

Design Characteristics Cable

Fiber Count	Fibers per Tube	Number of Tube Positions	Number of Active Tubes	Buffer Tube Diameter
12 - 72	12	6	1 - 6	2.5 mm (0.1 in)
96	12	8	8	2.5 mm (0.1 in)
144	12	12	12	2.5 mm (0.1 in)

Mechanical Characteristics Cable

Fiber Count	Nominal Outer Diameter	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
12 - 72	10.5 mm (0.41 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	316 mm (12.44 in)	210 mm (8.27 in)	80 kg/km (53.76 lb/1000 ft)

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Mechanical Characteristics Cable

Fiber Count	Nominal Outer Diameter	Max. Tensile Strength, Short-Term	Max. Tensile Strength, Long-Term	Min. Bend Diameter Installation	Min. Bend Diameter Operation	Cable Weight
96	12.2 mm (0.48 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	366 mm (14.41 in)	244 mm (9.61 in)	108 kg/km (72.57 lb/1000 ft)
144	15.8 mm (0.62 in)	2700 N (606.98 lbf)	890 N (200.08 lbf)	474 mm (18.66 in)	316 mm (12.44 in)	177 kg/km (118.94 lb/1000 ft)

Transmission Performance

Single-mode

Fiber Name	Single-mode (OS2)
Performance Option Code	01
Fiber Category	OS2
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Code	E
Maximum Attenuation	0.4 dB/km / 0.4 dB/km / 0.3 dB/km

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□ □ □ **E** **U** **4** - **T** **4** **1** **0** **1** **A** **S** **N**
 1 2 3 4 5 6 7 8 9 10

1 Select fiber count.

Standard offerings:
012-144 (Increments of 12)

2 Select fiber code.

E = Single-mode (G.652.D)

3 Defines cable type.

U = Sensing cable

4 Defines outer jacket.

4 = Dielectric

5 Select fiber placement.

T = 12 fibers/buffer tube
(standard)

6 Select length markings.

4 = Markings in feet
(standard)

7 Defines tensile strength.

1 = 2700 N/600 lbf
(standard)

8 Select performance option code.

01 = Single-mode (OS2)
(Max. attenuation 0.4/0.4/0.3 dB/km)

9 Defines cable type.

A = Gel-filled cable

10 Defines special requirements.

SN = No special requirements



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