

ALTOS® Loose Tube Outdoor Cable

1x12 E9 SMF-28e+® ITU G652.D LT 2.0

CORNING

Corning stranded loose tube cables are designed for outdoor use for campus, city and intercity backbones in duct installations.

The loose-tube cable construction, by isolating the fibres from installations and environmental rigors, provides stable and highly reliable transmission parameters. The buffer tubes and fibres in each tube are colour-coded for quick and easy identification.

The SZ-stranded construction further reduces installation and environmental influences on the transmission parameters and allows mid-span access.

These cables are designed for installation in conduits, ducts and on cable racks.

Features and Benefits

All-dielectric cable construction

Requires no grounding or bonding

UV- and microbe-resistant

Can be installed in ducts or conduits

Waterblocking technology

OSP (outdoor) applications

Fibres/buffer tubes colour coding to Telcordia-Bellcore

Easy identification of the individual tubes and fibres

Dry cable core by means of water swellable elements

Allows efficient and craft-friendly cable preparation in outdoor or indoor/outdoor applications



Part Number: 012EP4-T3122A20

Standards

Waterblocking IEC 60794-1-2 F5

Specifications

| General Specifications | |
|------------------------|------------|
| Environment | Outdoor |
| Application | Duct |
| Cable type | Loose Tube |
| Product type | Dielectric |

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General Specifications

| | |
|---|------------|
| Fibre category | SM (OS2) |
| Coding according to EN 60794-1-1 (DIN VDE 0888-100-1) | A-DQ(ZN)2Y |
| Previous coding following DIN VDE 0888-3 | A-DQ(ZN)2Y |

Temperature Range

| | |
|---------------------------|-----------------|
| Installation and Assembly | -5 °C to 50 °C |
| Operation | -30 °C to 70 °C |
| Storage | -40 °C to 70 °C |

Cable design

| | |
|--------------------------------|--|
| Central Element | Glass reinforced Plastic (Dielectric) |
| Central Element Diameter | 2.1 mm |
| Fibre count | 12 |
| Fibre colouring | Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise |
| Fibres per Tube | 12 |
| Number of Tube Positions | 6 |
| Number of Active Tubes | 1 |
| Buffer tube colour coding | blue |
| Buffer tube diameter | 1.95 mm |
| Number of filling elements | 5 |
| Tape | Water-swellable |
| Number of Ripcords | 2 |
| Outer jacket material | High Density Polyethylene (HDPE) |
| Outer jacket colour | black |
| Outer Jacket Nominal Thickness | 1.1 mm |
| Cable Marking | Meter Handset Sine CORNING Year ALTOS® A-DQ(ZN)2Y 12 E9 LT 2.0 |

Mechanical Characteristics Cable

| | |
|-------------------------------|------------|
| Nominal Outer Diameter | 8.3 mm |
| Weight | 54.1 kg/km |
| Min. Bend Radius Installation | 145 mm |
| Min. Bend Radius Operation | 125 mm |

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Mechanical Characteristics Cable

| | |
|--|--------------|
| Max. Tensile Strength for Installation | 1500 N |
| Crush Resistance (reversible) | 2000 N/10 cm |

Chemical characteristics

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

Fibre Specifications

Optical Characteristics (cabled)

| | |
|----------------------------|--------------------------------------|
| Fibre Name | E9/125 SMF28e+ |
| Fibre Core Diameter | 8.2 µm |
| Fibre category | OS2 |
| Fibre Code | E |
| Wavelengths | 1310 nm / 1383 nm / 1550 nm |
| Maximum Attenuation | 0.36 dB/km / 0.36 dB/km / 0.22 dB/km |
| Serial 1 Gigabit Ethernet | 5000 m / - / - |
| Serial 10 Gigabit Ethernet | 10000 m / - / 40000 m |
| Cable cutoff wavelength | 1260 nm |

- Notes: 1) Meets 0.75 ns optical skew when used in all Corning Plug and Play™/Pretium EDGE® systems solutions.
2) Improved attenuation and bandwidth options available
3) Bend-insensitive single-mode fibres available on request
4) Contact a Corning Customer Care Representative for additional information

Ordering Information

| | |
|---------------------|---|
| Part Number | 012EP4-T3122A20 |
| Product Description | ALTOS® Loose Tube Outdoor Cable 1x12 E9 SMF-28e+® ITU G652.D LT 2.0 |

Shipping Information

| | |
|-------------------------|---------|
| Maximum delivery length | 6,000 m |
|-------------------------|---------|

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The logo consists of a solid blue square with the word "CORNING" written in white, uppercase, sans-serif font in the center.

Notes



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