

Aerial Dielectric Self-Supporting Cable, ADSS 12 F Single-mode (OS2), A-D2Y(T)2Y, (1 x 12)

The CORNING logo is displayed in white, uppercase letters on a solid blue rectangular background.

Part Number:
012ELE-T3222A20

Features and Benefits

All dielectric self-supporting aerial cable

Non-metallic strength members over the cable core

Dry cable core by swellable elements

Single-layer stranded construction up to 144 fibers

Single-mode fibers fully compliant to standard ITU G.652 D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range

Telcordia standard for fiber and loose tube coloring

Cable design according to CORNING standard

Aerial Dielectric Self-Supporting Cable, ADSS 12 F Single-mode (OS2), A-D2Y(T)2Y, (1 x 12)

CORNING

Specifications

General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Fiber Category	ITU-TG.652.D (OS2)
Cable geometry	Round

Standards

Fiber Standards	TIA/EIA-492CAAB, IEC 60793-2-50 Type B1.3, ITU-T G.652.D, ISO/IEC 11801 Ed.2.2
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

Environmental Conditions

Halogen-free	Yes
Temperature Range, Installation	-5 °C to 50 °C (23 °F to 122 °F)
Temperature Range, Operation	-40 °C to 70 °C (-40 °F to 158 °F)
Temperature Range, Storage	-40 °C to 70 °C (-40 °F to 158 °F)

Cable Design

Cable Marking	Meter - Handset - Double Sine - CORNING - Year -TBD
Central Element	Dielectric
Fiber Count	12
Number of Ripcords	1
Buffer Tube Color Coding, Layer 1	Blue
Outer Jacket Color	Black
Outer Jacket Material	Polyethylene (PE)
Inner Jacket Material	Polyethylene (PE)
Number of Active Tubes	1

Aerial Dielectric Self-Supporting Cable, ADSS 12 F Single-mode (OS2), A-D2Y(T)2Y, (1 x 12)

CORNING

Cable Design

Number of Filling Elements	5
Number of Tube Positions	6
Tape	Water-swellable
Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12

Mechanical Specifications

Crush Resistance	3000 N/10 cm
Max. Tensile Strength, Long-Term	1200 N
Max. Tensile Strength, Short-Term	3000 N
Min. Bend Radius Installation	225 mm
Min. Bend Radius Operation	265 mm
Nominal Outer Diameter	15.1 mm

Optical Characteristics

Fiber Code	E
Performance Option Code	22
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 µm
Fiber Name	Single-mode (OS2)
Maximum Attenuation	0.36 dB/km / 0.36 dB/km / 0.22 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D
Fiber Core Diameter	8.2 µm
Cladding diameter	125 µm
Coating diameter	242 µm
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]

Aerial Dielectric Self-Supporting Cable, ADSS 12 F Single-mode (OS2), A-D2Y(T)2Y, (1 x 12)

CORNING

Optical Characteristics

Cable cutoff wavelength	1260 nm
Mode-Field Diameter at 1310 nm	9.2 μm
Mode-Field Diameter at 1550 nm	10.4 μm
PMD Link Design Value	$\leq 0.06 \text{ ps}/\sqrt{\text{km}}$
PMD maximum individual fiber	$\leq 0.1 \text{ ps}/\sqrt{\text{km}}$

Dimensions

Cable Weight	160 kg/km
Max. cable length per reel/drum	6000 m



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/emea/trademarks. Corning Optical Communications is ISO 9001 and ISO 14001 certified. © 2026 Corning Optical Communications. All rights reserved.