

ADSS Aramid Single Jacket Cable up to 100m span LT 2.3 1x12 fibers, SMF-28e+® Ultra ITU G652.D ITU G657.A1 LT 2.3

CORNING

Part Number:
012ZF4-T3S20A20

Corning single jacket ADSS cables for short span application are all-dielectric, self-supporting (ADSS) cables designed for easy and economical one-step installation in campus backbones with self-supporting installations where metallic messengers cannot be used. The loose tube design provides stable performance over a wide temperature range and is compatible with any telecommunications-grade optical fiber. The economical single-jacket design can span distances up to 100m in NESC light/medium conditions and 50m in NESC heavy conditions (see sag and tension chart for details). This cable incorporates innovative waterblocking materials, eliminating the need for traditional flooding compound and providing efficient and craft-friendly cable preparation. While the concentric, self-supporting cable design allows easy, one-step installation using standard hardware and installation methods, the SZ-stranded, loose tube design isolates optical fibres from installation and environmental rigors and facilitates mid-span access. These ADSS optical cables are available with HDPE jacket for installation in telecom applications.

Features and Benefits

All dielectric self-supporting aerial cable

Non-metallic strength members over the cable core

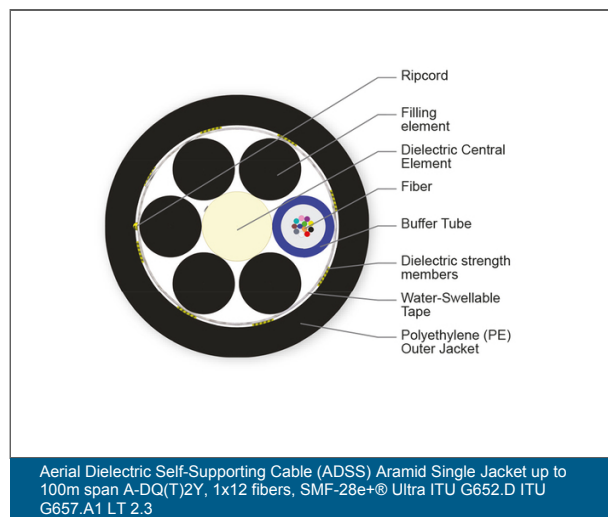
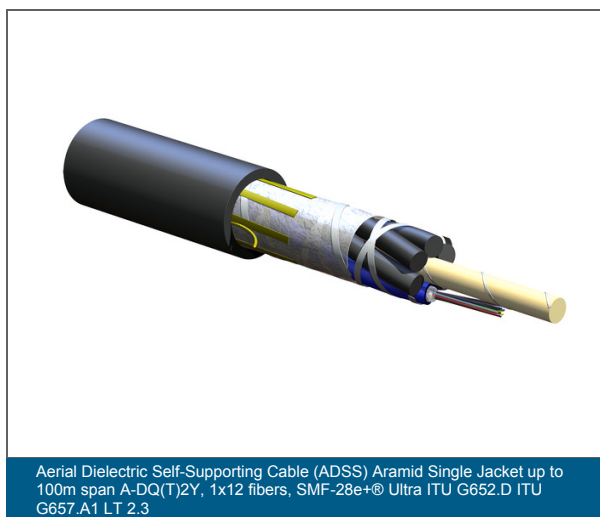
Dry cable core by swellable elements

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



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Specifications

General Specifications

Cable Type	Loose Tube
Environment	Outdoor
Fiber Category	SMF-28® Ultra
Cable geometry	Round

Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
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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 - Sine - CORNING - Fiber Optic Cable - Year - ADSS CABLE A-DQ(T)2Y 1X12 E9U LT2.3 UP TO 100M
Central Element	Dielectric
Fiber Count	12
Outer Jacket Color	Black
Outer Jacket Material	High Density Polyethylene (HDPE)
Buffer Tube Color	Blue
Number of Active Tubes	1
Number of Tube Positions	6
Cable Marking Method	Hotfoil printing
Cable Marking Color	White

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Cable Design

Fiber Coloring	Blue, Orange, Green, Brown, Slate, White, Red, Black, Yellow, Violet, Rose, Aqua
Fibers per Tube	12
Color Code Standards	Telcordia

Mechanical Specifications

Crush Resistance	2000 N/10 cm
Impact Testing acc. IEC 69794-1-2 E4, 5 J, $\Delta L \geq 0.5$ m	3 impact(s)
Max. Tensile Strength, Long-Term	2770 N
Max. Tensile Strength, Short-Term	4600 N
Min. Bend Radius Installation	158 mm
Min. Bend Radius Operation	210 mm
Nominal Outer Diameter	10.5 mm

Optical Characteristics

Fiber Code	Z
Performance Option Code	20
Fiber Category	OS2
Fiber Type	Single-mode (OS2) / 250 μ m
Fiber Name	Bend-Improved Single-mode (OS2)
Maximum Attenuation	0.34 dB/km / 0.34 dB/km / 0.20 dB/km
Wavelengths	1310 nm / 1383 nm / 1550 nm
Fiber Compliance	ITU-T G.652.D and ITU-T G.657.A1
Fiber Core Diameter	8.2 μ m
Cladding diameter	125 μ m
Coating diameter	242 μ m
Dispersion @ 1550 nm	≤ 18 [ps/(nm*km)]
Dispersion @ 1625 nm	≤ 22 [ps/(nm*km)]
Cable cutoff wavelength	1260 nm

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Optical Characteristics

Mode-Field Diameter at 1310 nm	9.2 µm
Mode-Field Diameter at 1550 nm	10.4 µm
PMD Link Design Value	≤ 0.04 ps/(nm*km)
PMD maximum individual fiber	≤ 0.1 ps/(nm*km)

Dimensions

Cable Weight	84 kg/km
Max. cable length per reel/drum	6000 m

Installation Characteristics

	Initial Installation		NESC Light		NESC Medium		NESC Heavy	
Span	SAG	Tension	SAG	Tension	SAG	Tension	SAG	Tension
Fiber Count 12								
50 m	1.1 %	467 N	3.1 %	1,252 N	3.5 %	1,599 N	4.2 %	2,345 N
100 m	1.1 %	933 N	3.6 %	2,164 N	4.1 %	2,715 N		



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