Aerial Dielectric Self Supporting (ADSS) Aramid Single Jacket Cable up to 200m span LT 2.3 8x12 fibres, SMF-28e+® Ultra ITU G652.D ITU G657.A1 LT 2.3

Part Number:
096ZG4-T3M20A20

Corning single jacket ADSS cables for medium span applications 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 of 100m in NESC heavy conditions, 150m in NESC medium conditions and 200m in NESC light conditions.
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

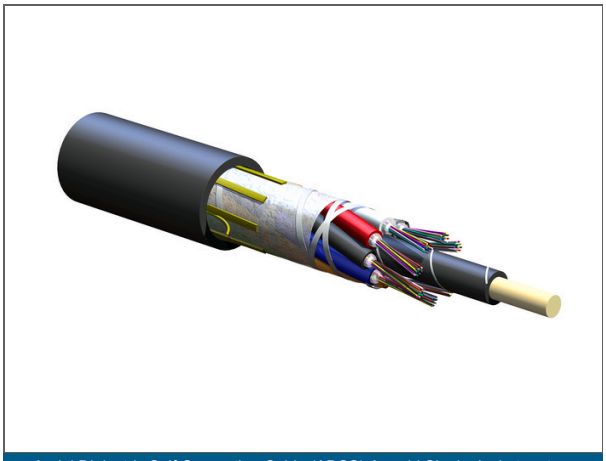
Dry cable core by swellable elements

Single-layer stranded construction up to 144 fibres

Single-mode fibres 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 fibre and loose tube coloring

Cable design according to CORNING standard



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Specifications

General Specifications	
Cable type	Loose tube
Environment	Outdoor
Fibre category	SMF-28® Ultra
Cable geometry	Round

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

Environmental Conditions	
Halogen-free	Yes
Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-40 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

Cable Design	
Cable marking	Metre Handset Sine CORNING Fiber Optic Cable YearADSS CABLE A-DQ(T)2Y 8X12 E9U LT2.3 UP TO 200M
Central element	Dielectric
Fibre count	96
Outer jacket colour	Black
Outer jacket material	High Density Polyethylene (HDPE)
Buffer tube colour	Blue, orange, green, brown, grey, white, red, black
Number of active tubes	8
Number of tube positions	8
Cable marking method	Hotfoil printing
Cable marking colour	White

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Cable Design	
Fibre colouring	Blue, orange, green, brown, grey, white, red, black, yellow, violet, pink, turquoise
Fibres per tube	12
Colour Code Standards	Telcordia

Mechanical Specifications	
Crush resistance	2000 N/10 cm
Impact testing acc. IEC 69794-1-2 E4, 5 J, ΔL ≥ 0.5 m	3 impact(s)
Max. tensile strength, long-term	4660 N
Max. tensile strength, short-term	7600 N
Min. bend radius installation	183 mm
Min. bend radius operation	244 mm
Nominal outer diameter	12.2 mm

Optical Characteristics	
Fibre code	Z
Performance option code	20
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre 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
Fibre compliance	ITU-T G.652.D and ITU-T G.657.A1
Fibre 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)]
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/√km
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/√km

Dimensions	
Cable Weight	114 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
Fibre count 96								
100 m	1.5 %	924 N	3.5 %	2,585 N	3.8 %	3,161 N	4.5 %	4,618 N
150 m	1.5 %	1,385 N	3.8 %	3,568 N	4.2 %	4,326 N		
200 m	1.5 %	1,847 N	4 %	4,477 N				

RoHS COMPLIANT

Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
00 800 2676 4641 • FAX: • www.corning.com/opcomm/emea

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