Aerial Dielectric Self-Supporting Cable, ADSS 5.4 mm aramid, A-D2Y(T)2Y, (8 x 12) fibres, single-mode (SMF-28e+®)

CORNING

Part Number:
096ELE-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 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	ITU-TG.652.D (OS2)
Cable geometry	Round

Standards	
Fibre 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	
Temperature range, installation	-5 °C to 50 °C
Temperature range, operation	-30 °C to 70 °C
Temperature range, storage	-40 °C to 70 °C

Cable Design	
Cable marking	Meter handset D-sine CORNING year
Central element	Dielectric
Fibre count	96
Number of ripcords	1
Buffer tube colour coding, layer 1	Blue, orange, green, brown, grey, white, red, black
Outer jacket colour	Black
Outer jacket material	Polyethylene (PE)
Inner jacket material	Polyethylene (PE)
Number of active tubes	8
Number of tube positions	8

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Cable Design	
Tape	Water-swellable
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	3000 N/10 cm
Max. tensile strength, long-term	1200 N
Max. tensile strength, short-term	3000 N
Min. bend radius installation	250 mm
Min. bend radius operation	295 mm
Nominal outer diameter	16.6 mm

Optical Characteristics	
Fibre code	E
Performance option code	22
Fibre category	OS2
Fibre Type	Single-mode (OS2) / 250 µm
Fibre 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
Fibre compliance	ITU-T G.652.D
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	≤ 0.06 ps/√km
PMD (Polarization Mode Dispersion) maximum individual fibre	≤ 0.1 ps/√km

Dimensions	
Cable Weight	196 kg/km
Max. cable length per reel/drum	6000 m

RoHS COMPLIANT

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