

ADSS Aramid Single Jacket Cable up to 200m span LT 2.3

CORNING

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

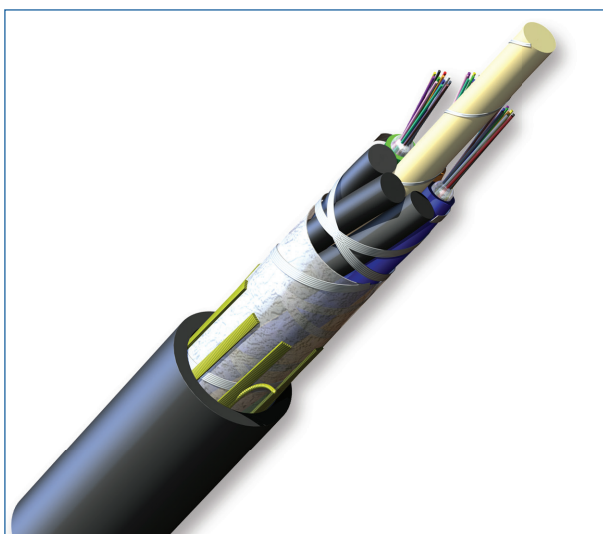
Single-mode fibres fully compliant to standard ITU G.652 D (reduced OH- peak) showing low attenuation throughout the 1285 nm to 1625 nm wavelength range

Telcordia standard for fibre and loose tube coloring

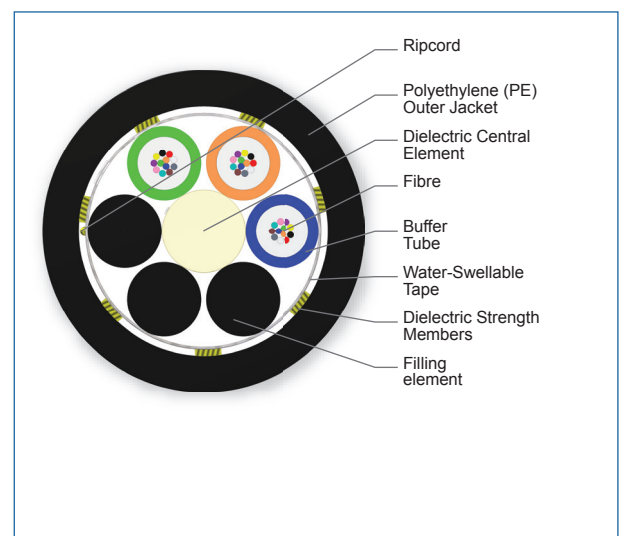
Cable design according to CORNING standard

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 fibre. 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.



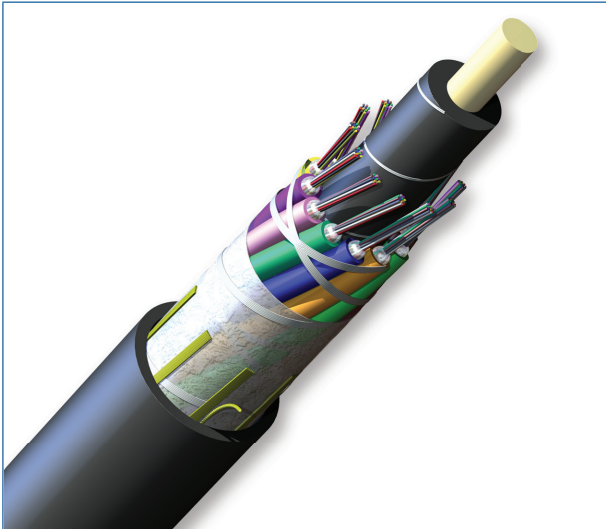
ADSS Aramid Single Jacket Cable, 36 Fibres
| Photo PIM0645



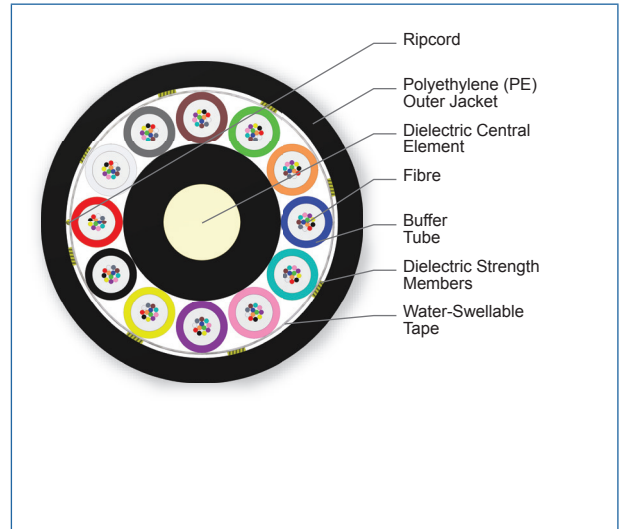
ADSS Aramid Single Jacket Cable, 36 Fibres
| Photo PIM1544

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ADSS Aramid Single Jacket Cable, 144 Fibres
| Photo PIM0650



ADSS Aramid Single Jacket Cable, 144 Fibres
| Photo PIMtbd

Specifications

Temperature Range	
Installation and assembly	-5 °C to 50 °C
Operation	-40 °C to 70 °C
Storage	-40 °C to 70 °C

Mechanical Characteristics Cable						
Fibre count	Number of tube positions	Number of active tubes	Weight	Nominal Outer Diameter	Min. Bend Radius Installation	Min. Bend Radius Operation
12 - 72	6	1 - 6	89 kg/km	10.8 mm	162 mm	216 mm
96	8	8	113 kg/km	12.2 mm	183 mm	244 mm
144	12	12	170 kg/km	15.1 mm	227 mm	302 mm

Chemical Characteristics	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU

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Installation Conditions

Span	Initial Installation		NESC Light		NESC Medium		NESC Heavy	
	SAG	Tension	SAG	Tension	SAG	Tension	SAG	Tension
12-72 Fibres								
100 m	1.5 %	725 N	3.53 %	2267 N	3.93 %	2884 N	4.71 %	4258 N
150 m	1.5 %	1087 N	3.86 %	3121 N	4.34 %	3935 N		
200 m	1.5 %	1450 N	4.11 %	3907 N				
96 Fibre								
100 m	1.5 %	924 N	3.46 %	2585 N	3.8 %	3161 N	4.54 %	4618 N
150 m	1.5 %	1385 N	3.77 %	3568 N	4.17 %	4326 N		
200 m	1.5 %	1847 N	4.01 %	4477 N				
144 Fibre								
100 m	1.5 %	1391 N	3.34 %	3030 N	3.68 %	3656 N	4.42 %	5206 N
150 m	1.5 %	2087 N	3.61 %	4214 N	4.02 %	5033 N		
200 m	1.5 %	2782 N	3.82 %	5318 N				

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Transmission Performance

Single-mode			
Fibre name	SMF-28® Ultra fibre	SMF28e+®	SMF28e+® LL
Fibre Category	OS2	OS2	OS2
Fibre core diameter (µm)	8.2	8.2	8.2
Mode-Field Diameter at 1310 nm (µm)	9.2	9.2	9.2
Fibre code	Z	E	L
Coating diameter (µm)	242	242	242
Cladding diameter (µm)	125	125	125
Wavelengths (nm)	1310/1383/1550	1310/1383/1550	1310/1383/1550
Maximum attenuation (dB/km)	0.34/0.34/0.20	0.36/0.36/0.22	0.34/0.34/0.20
Typical attenuation (dB/km)	0.32/0.32/0.18	0.32/0.32/0.18	0.32/0.32/0.18
Cable cutoff wavelength (nm)	1260	1260	1260
Dispersion @ 1625 nm (ps / (nm * km))	≤22.0	≤22.0	≤22.0
Dispersion @ 1550 nm (ps / (nm * km))	≤18.0	≤18.0	≤18.0
PMD Link Design Value (PS / √km)	≤0.04	≤0.06	≤0.04
PMD maximum individual fibre (PS / √km)	≤0.1	≤0.1	≤0.1
Standards in compliance	ITU-T G.652 D and ITU-T G.657 A1	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2	TIA/EIA 492-CAAB IEC 60793-2-50 Type B1.3, ITU-T G.652 D, ISO/IEC 11801 Ed.2.2

* Zero Dispersion Wavelength λ_0 : 1304nm $\leq \lambda_0 \leq$ 1324nm

* Zero Dispersion Slope $S_0 \leq 0.092$ ps / (nm² * km)

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Ordering Information | *Note:* For other options, please contact our Customer Care at cc.emea@corning.com or 00800 2676 4641.



- | | | |
|--|--|--|
| <p>1 Select fibre count.
004-144</p> | <p>4 Select jacket.
4 = PE jacket</p> | <p>7 Defines tensile strength.
M = ADSS Medium-Span Cable</p> |
| <p>2 Select fibre code.
E = Single-mode (OS2)
SMF-28e+®
L = Single-mode (OS2)
SMF-28e+LL®
Z = Single-mode (OS2)
SMF-28 ULTRA®</p> | <p>5 Defines fibre placement.
T = 12 fibres/buffer tube
(standard)
4 = 4 fibres/buffer tube
6 = 6 fibres/buffer tube
8 = 8 fibres/buffer tube</p> | <p>8 Select performance option code.
22 = SMF-28e+
20 = SMF-28e+LL or SMF-28 ULTRA</p> |
| <p>3 Defines cable type.
G/A = ADSS Single Jacket Cable</p> | <p>6 Select length marking.
3 = Marking in metres</p> | <p>9 Defines cable type.
G/A = ADSS Single Jacket Cable</p> <p>10 Defines special requirements.
20 = No special requirements</p> |



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