

## 60 Fibre Mid Span ADSS Cable

Up to 60 optical fibres (12f/tube) in jelly-filled loose tubes, laid up around a central non-metallic strength member, water blocked, aramid yarn reinforced, and polyethylene sheathed. Surface printing includes sequential length marking at one metre intervals.

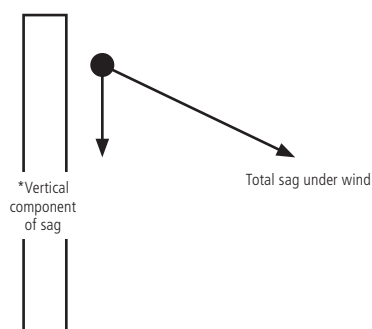
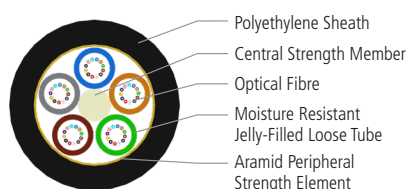
### Part Number

SMM5\*\*LL0††BK

### Applicable Specifications

AS/CA S-008, AS 1049, AS/NZS 11801.1, TIA-598-D, IEC 60793 and IEC 60794, ITU-T Rec. G.652.D

### Cable Components



### Applications

AFL all dielectric self-supporting cables are principally used for aerial installations - typically on roadside power distribution poles. Being totally non-metallic it is ideal for applications in close proximity to power distribution lines, for which it has become a standard.

This product is also suited to single point suspension applications such as down mine shafts or any application where the product has to support either a higher load than conventional terrestrial cable or a permanent or varying tensile load, applied through the outer sheath. Standard pole-mounting hardware is readily available for this product. Contact AFL for assistance with sag-tension calculations or other application support.

### Physical Characteristics

SPECIFICATION	UNIT	VALUE
Nominal Tube Diameter	mm	2.7
Nominal Cable Diameter	mm	11.1
Nominal Weight	kg/km	95
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	6.1
Zero Fibre Strain Limit	%	0.95
Min Bending Radius - Under Load	mm	20 x OD
Min Bending Radius - No Load	mm	10 x OD
Max Crush Resistance	kN/100 mm	2
Effective Modulus	GPa	8.7
Effective Area	mm <sup>2</sup>	68
CLTE	ppm/°C	12.8
MCBL	kN	14

### Stringing Examples

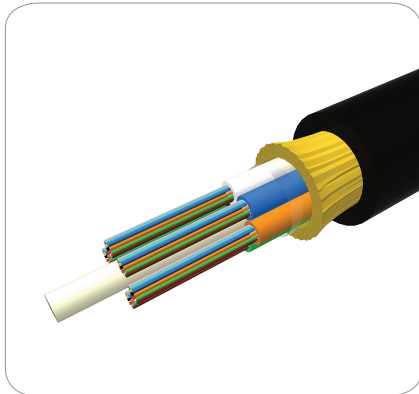
	UNITS	EDS	CONDITIONS		
			SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	-10	0
WIND	m/s (km/hr)	0	130	100	100
ICE	mm	0	0	2	0
SPAN	m	150/200/300	150	200	300
SAG	M	2.3/4/9.1	6.9 (0.58*)	9.79 (1.93*)	16.23 (2.30*)
TENSION	kN	1.1	4.26	4.39	4.33
CABLE STRAIN	%	0.19	0.72	0.74	0.74

\*\* Represents fibre type: 1D = SM G.652.D 'LWP'. Note: Other fibre types on request.

†† Represents any fibre-count up to 60.

Refer to OSP Cable - Optical Characteristics for further information.

Actual finished product may vary from illustration.



## 72 Fibre Mid Span ADSS Cable

Up to 72 optical fibres (12f/tube) in jelly-filled loose tubes, laid up around a central non-metallic strength member, water blocked, aramid yarn reinforced, and polyethylene sheathed. Surface printing includes sequential length marking at one metre intervals.

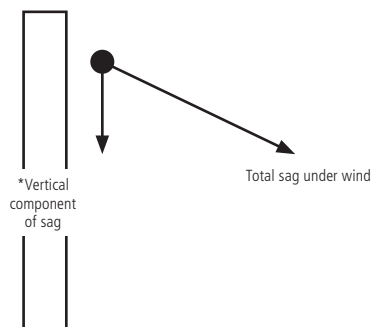
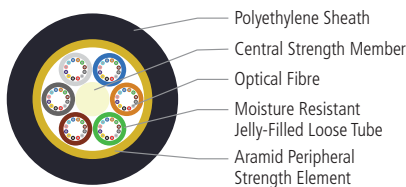
### Part Number

SMM6\*\*LL0††BK

### Applicable Specifications

AS/CA S-008, AS 1049, AS/NZS 11801.1, TIA-598-D, IEC 60793 and IEC 60794, ITU-T Rec. G.652.D

### Cable Components



### Applications

AFL all dielectric self-supporting cables are principally used for aerial installations - typically on roadside power distribution poles. Being totally non-metallic it is ideal for applications in close proximity to power distribution lines, for which it has become a standard.

This product is also suited to single point suspension applications such as down mine shafts or any application where the product has to support either a higher load than conventional terrestrial cable or a permanent or varying tensile load, applied through the outer sheath. Standard pole-mounting hardware is readily available for this product. Contact AFL for assistance with sag-tension calculations or other application support.

### Physical Characteristics

SPECIFICATION	UNIT	VALUE
Nominal Tube Diameter	mm	2.7
Nominal Cable Diameter	mm	11.9
Nominal Weight	kg/km	115
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	8
Zero Fibre Strain Limit	%	1.0
Min Bending Radius - Under Load	mm	20 x OD
Min Bending Radius - No Load	mm	10 x OD
Max Crush Resistance	kN/100 mm	2
Effective Modulus	GPa	9.7
Effective Area	mm <sup>2</sup>	78
CLTE	ppm/°C	12
MCBL	kN	18.9

### Stringing Examples

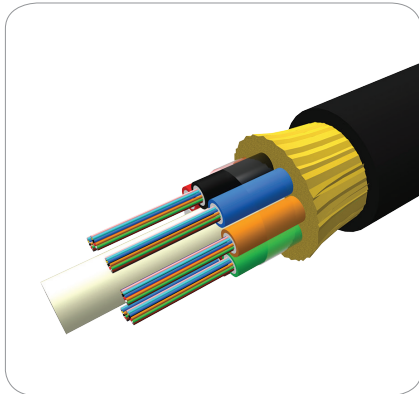
	UNITS	EDS	CONDITIONS		
			SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	0	0
WIND	m/s (km/hr)	0	150	120	100
ICE	mm	0	2	1	0
SPAN	m	150/200/300	150	200	300
SAG	M	2.25/4.01/9.06	8.11 (0.77*)	9.92 (1.28*)	15.33 (2.41*)
TENSION	kN	1.31	6.93	5.65	4.91
CABLE STRAIN	%	0.17	0.92	0.75	0.65

\*\* Represents fibre type: 1D = SM G.652.D 'LWP'. Note: Other fibre types on request.

†† Represents any fibre-count up to 72.

Refer to OSP Cable - Optical Characteristics for further information.

Actual finished product may vary from illustration.



## 96 Fibre Mid Span ADSS Cable

Up to 96 optical fibres (12f/tube) in jelly-filled loose tubes, laid up around a central non-metallic strength member, water blocked, aramid yarn reinforced, and polyethylene sheathed. Surface printing includes sequential length marking at one metre intervals.

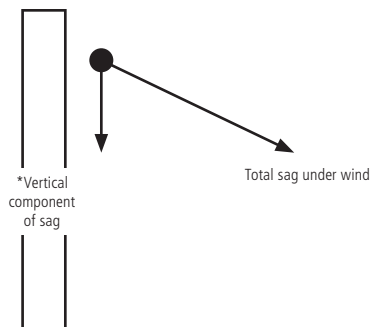
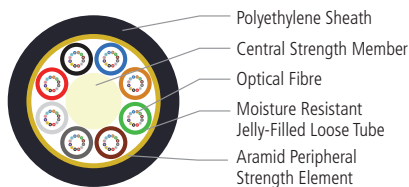
### Part Number

SMM8\*\*PE0††BK

### Applicable Specifications

AS/CA S-008, AS 1049, AS/NZS 11801.1, TIA-598-D, IEC 60793 and IEC 60794, ITU-T Rec. G.652.D

### Cable Components



### Applications

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This product is also suited to single point suspension applications such as down mine shafts or any application where the product has to support either a higher load than conventional terrestrial cable or a permanent or varying tensile load, applied through the outer sheath. Standard pole-mounting hardware is readily available for this product. Contact AFL for assistance with sag-tension calculations or other application support.

### Physical Characteristics

SPECIFICATION	UNIT	VALUE
Nominal Tube Diameter	mm	2
Nominal Cable Diameter	mm	11.3
Nominal Weight	kg/km	107
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	7.5
Zero Fibre Strain Limit	%	0.54
Min Bending Radius - Under Load	mm	20 x OD
Min Bending Radius - No Load	mm	10 x OD
Max Crush Resistance	kN/100 mm	1.5
Effective Modulus	GPa	19
Effective Area	mm <sup>2</sup>	75
CLTE	ppm/°C	3.3
MCBL	kN	36

### Stringing Examples

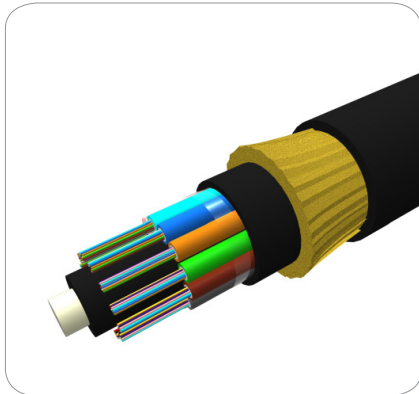
	UNITS	EDS	CONDITIONS		
			SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	-10	0
WIND	m/s (km/hr)	0	100	100	100
ICE	mm	0	2	1	0
SPAN	m	150/200/300	150	200	300
SAG	M	2.26/4.02/9.09	4.48 (0.94*)	0.46 (1.2*)	11.2 (1.78*)
TENSION	kN	1.27	5.5	5.84	6.44
CABLE STRAIN	%	0.087	0.38	0.401	0.44

\*\* Represents fibre type: 1D = SM G.652.D 'LWP'. Note: Other fibre types on request.

†† Represents any fibre-count up to 96.

Refer to OSP Cable - Optical Characteristics for further information.

Actual finished product may vary from illustration.



## 144 Fibre Mid Span ADSS Cable

Up to 144 optical fibres (12f/tube) in jelly-filled loose tubes, laid up around a central non-metallic strength member, water blocked, aramid yarn reinforced, and polyethylene sheathed. Surface printing includes sequential length marking at one metre intervals.

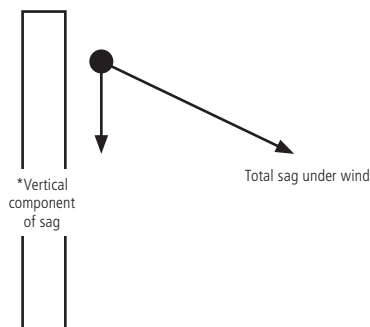
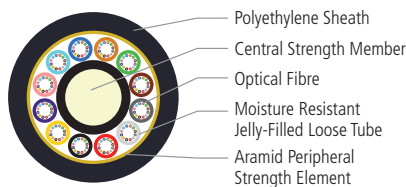
### Part Number

SMMC\*\*LI+++BK

### Applicable Specifications

AS/CA S-008, AS 1049, AS/NZS 11801.1, TIA-598-D, IEC 60793 and IEC 60794, ITU-T Rec. G.652.D

### Cable Components



### Applications

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### Physical Characteristics

SPECIFICATION	UNIT	VALUE
Nominal Tube Diameter	mm	2.7
Nominal Cable Diameter	mm	17.3
Nominal Weight	kg/km	240
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	13
Zero Fibre Strain Limit	%	1
Min Bending Radius - Under Load	mm	20 x OD
Min Bending Radius - No Load	mm	10 x OD
Max Crush Resistance	kN/100 mm	2
Effective Modulus	GPa	9
Effective Area	mm <sup>2</sup>	170
CLTE	ppm/°C	12.6
MCBL	kN	39

### Stringing Examples

	UNITS	EDS	CONDITIONS		
			SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	-10	-10
WIND	m/s (km/hr)	0	150	150	130
ICE	mm	0	4	0	0
SPAN	m	150/200/300	150	200	300
SAG	M	2.88/3.98/9.0	7.33 (1.12*)	9.63 (1.02*)	16.09 (2.25*)
TENSION	kN	2.88	12.29	11.29	11.47
CABLE STRAIN	%	0.184	0.79	0.73	0.74

\*\* Represents fibre type: 1D = SM G.652.D 'LWP'. Note: Other fibre types on request.

+++ Represents any fibre-count up to 144.

Refer to OSP Cable - Optical Characteristics for further information.

Actual finished product may vary from illustration.