

## 144 Fibre Short Span ADSS Cable

Stranded ADSS cable comprising up to 144 optical fibres contained in jelly-filled loose tubes (up to 12 fibres per tube). The tubes and fillers are laid around a central strength member and contained within a dry, water blocked cable core which is reinforced with aramid yarn and sheathed with UV stable Polyethylene. Surface printing includes sequential length marking at one metre intervals.

### Part Number

SMMC\*\*PA+++BK

### Applicable Specifications

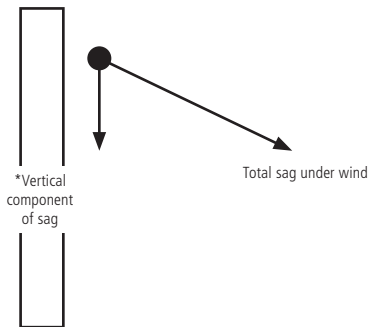
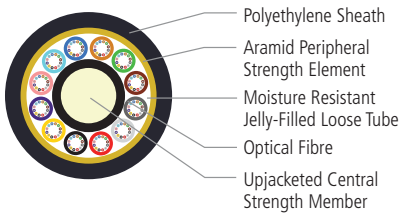
AS/CA S008, AS 1049, AS/NZS 11801-1, TIA-598-D, IEC 60793, IEC 60794, ITU-T Recommendations

### 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.

It is also suitable for single point suspension applications such as, down mine shafts or where the cable has to support higher load by providing fixed/variable tensile strength along the outer sheath. UV stabilised outer sheath as per AS 1049. Standard pole-mounting hardware is also readily available for this product. Contact AFL for assistance with sag-tension calculations or other application support.

### Cable Components



### Physical Characteristics

SPECIFICATION	UNIT	VALUE
Nominal Tube Diameter	mm	2
Nominal Cable Diameter	mm	14
Nominal Weight	kg/km	160
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	11
Zero Fibre Strain Limit	%	0.6
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	12
Effective Area	mm <sup>2</sup>	119
CLTE	ppm/°C	8
MCBL	kN	35

### Stringing Examples

	UNITS	EDS	CONDITIONS		
			SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	0	0
WIND	km/hr	0	150	120	100
ICE	mm	0	4	2	0
SPAN	m	50/60/80	50	60	80
SAG	m	0.25/0.36/0.64	1.53 (0.21*)	1.51 (0.26*)	1.74 (0.34*)
TENSION	kN	1.93	5.68	4.37	3.65
CABLE STRAIN	%	0.14	0.40	0.31	0.26

\*\* 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.