

## 144 Fibre Long 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, sheathed, aramid yarn reinforced, and final polyethylene sheath. Surface printing includes sequential length marking at one-metre intervals.

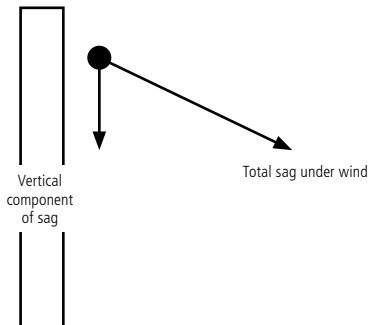
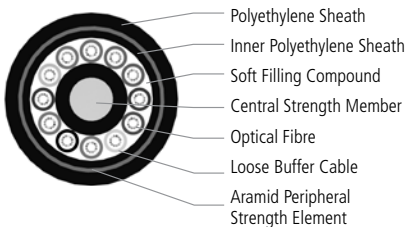
### Part Number

SMJC\*\*LE+++BK

### Applicable Specifications

AS/CA S-008, AS 1049, AS3080, IEC 60793 and IEC 60794

### Cable Components



### Applications

AFL all dielectric self-supporting cable 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	19.6
Nominal Weight	kg/km	300
Temperature Range	°C	-40 to 70
Max Allowable Load	kN	20
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>	236
CLTE	ppm/°C	10.3
MCBL	kN	53.07

### Stringing Example

	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	0	2	0
SPAN	m	350/450/600	350	450	600
SAG	M	15.16/25.4/46.19	22.8 (2.7*)	32.8 (7.21*)	51 (13.16*)
TENSION	kN	3	16.6	15.1	10.1
CABLE STRAIN	%	0.14	0.79	0.72	0.48

\*\* Represents fibre type: 1D = singlemode, 15 = G655, 53 = 50 um multimode (OM3), 55 = 50 um multimode (OM4), 62 = 62.5 um multimode (OM1)

+++ Represents any fibre-count up to 144. Actual finished product may vary from illustration.