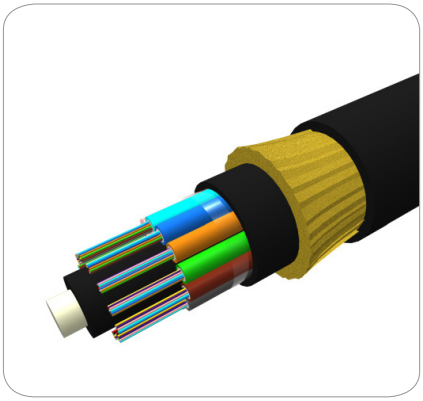


144 Fibre Long Span ADSS Cable

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 sheathed with polyethylene reinforced with aramid yarn and outer sheathed with UV stable Polyethylene. Surface printing includes sequential length marking at one metre intervals.

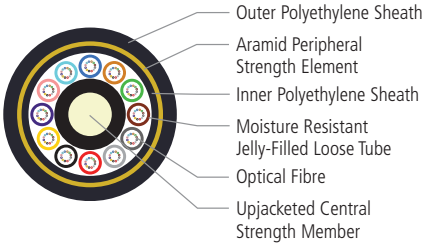
Part Number

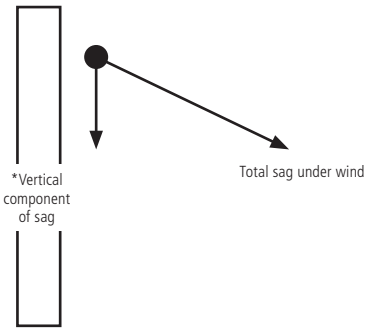
SMJC**LE†††BK

Applicable Specifications

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

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.

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.

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^2	236
CLTE	ppm/°C	10.3
MCBL	kN	53

Stringing Examples

			CONDITIONS		
	UNITS	EDS	SEVERE 1	SEVERE 2	SEVERE 3
TEMP	°C	15	-10	0	0
WIND	(km/hr)	0	150	120	120
ICE	mm	0	0	2	0
SPAN	m	350/450/600	350	450	600
SAG	M	12.25/20.4/36.8	21.3 (2.5*)	29.7 (6.5*)	46 (8.5*)
TENSION	kN	3.6	17.9	16.6	15.6
CABLE STRAIN	%	0.17	0.85	0.79	0.75

** 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.