

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.

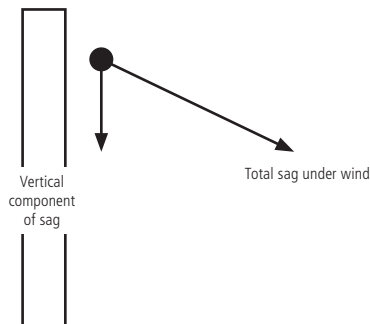
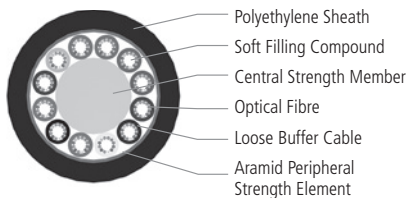
Part Number

SMMC**LI+++BK

Applicable Specifications

AS/CA S-008, AS 1049, 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 | 17.3 |
| Nominal Weight | kg/km | 240 |
| Temperature Range | °C | -40 to 70 |
| Max Allowable Load | kN | 10 |
| 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 | 170 |
| CLTE | ppm/°C | 12.6 |
| MCBL | kN | 39 |

Stringing Example

| | 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 | 4 | 2 | 0 |
| SPAN | m | 100/200/300 | 100 | 200 | 300 |
| SAG | M | .63/2.51/5.65 | 3.74 (.57*) | 8.01 (1.61*) | 11.6 (2.70*) |
| TENSION | kN | 4.6 | 10.73 | 10.88 | 9.61 |
| CABLE STRAIN | % | 0.29 | 0.69 | 0.7 | 0.62 |

** Represents fibre type: 1D = single-mode, 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.