



# Caledonian

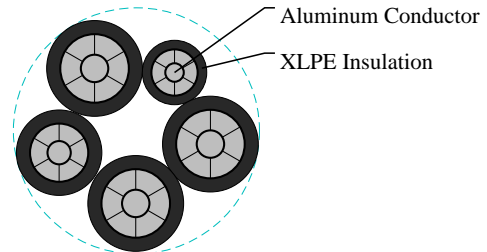
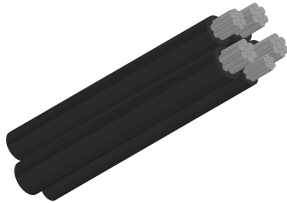
Aluminium Conductor Cables

[www.caledonian-cables.com](http://www.caledonian-cables.com)

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## LV Aerial Bundled Conductor (ABC) Cables

3C35+1C25+1C16 RM



## APPLICATIONS

Aerial Bundle Cable (ABC cable) is a very innovative concept for overhead power distribution as compared to the conventional bare conductor overhead distribution system. It provides higher level of safety and reliability, lower power losses and ultimate system economy by reducing installation, maintenance and operative cost. Caledonian LV Aerial Bundle Cables are designed to supply 600/1000 volt aerial service for temporary service at construction sites, as a service drop (power pole to service entrance), as a secondary cable (pole to pole) or street lighting. This over-head cable provides reinforced insulation acc. IEC 61140 and fulfill therefore Class II acc. IEC 61140. It is not flame retardant. But this could be if requested change to a flame retardant cable.

## STANDARDS

TNB Specification (IEC 60502)

## CABLE CONSTRUCTION

Conductor: Aluminium conductor, round stranded compressed (RM).

Insulation: XPLE compound, UV-resistant.

Core identification: 1, 2 resp. 3 raised longitudinal ribs on the surface of the cores. The surface of the neutral core should have at least 12 ribs for cross-sections up to 50 mm<sup>2</sup> and a minimum of 16 ribs for cores above 50 mm<sup>2</sup>. In the case of five core bundles the surface of the protective core should be smooth.

## Electrical Properties

Rated voltage: 0.6/1 kV

Test voltage: 4 Veff kV

Minimum laying temperature: -20 °C

Operating temperature: -40 °C ~ +90 °C

Maximum short-circuit temperature: 250 °C

Maximum conductor temperature: 80 °C

Minimum bending radius (min.): 18 × OD

## DIMENSION AND PARAMETERS



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| No. of Cores<br>× Cross-<br>sectional Area | Approx. Overall<br>Diameter | Cable Weight | max. conductor<br>resistance | min. breaking<br>load of<br>conductor strand | Current Rating |
|--|-----------------------------|--------------|------------------------------|--|----------------|
| No.×mm <sup>2</sup>                        | mm                          | kg/km        | Ω/km                         | kN   | A              |
| 3x35+1x25+1x16<br>RM                       | 25.6                        | 560          | 1.2                          | 4  | 107            |