## Caledonian

Industrial Cables (Australian Standard Medium Voltage)<br>www.caledonian-cables.com marketing@caledonian-cables.com

## 12.7/22kV Single Core Screened \& PVC Sheathed (AI Conductor) Light Duty 1C185



## APPLICATIONS

These cables are designed to be used for the supply of electrical energy in fixed applications up to the rated voltages at a nominal power frequency between 49 Hz and 61 Hz ., they are suitable for use in distribution installation, electrical power station, they are applied for installation, outdoors, underground where subject to mechanical damage.

## STANDARDS

AS/NZS 1429.1

## VOLTAGE RATING

## 12.7/22kV

## CABLE CONSTRUCTION

CONDUCTOR: Plain circular compacted aluminium to AS/NZS1125
Maximum Continuous Operating Temperature: $90^{\circ} \mathrm{C}$
CONDUCTOR SCREEN: Extruded semi-conducting compound, bonded to the insulation and applied in the same operation as the insulation
INSULATION: Cross Linked Polyethylene (XLPE) - standard
Ethylene Propylene Rubber (EPR) - alternative
INSULATION SCREEN: Extruded semi-conducting compound
METALLIC SCREEN: Plain annealed copper wire: 3kA for nominal 1 second(LIGHT DUTY)
SHEATH: Black 5V-90 polyvinyl chloride (PVC) - standard
Orange 5V-90 PVC inner plus black high density polyethylene (HDPE) outer - alternative
Low smoke zero halogen (LSOH) - alternative

## TECHNICAL CHARACTERISTICS



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|  | Or Flat <br> touching) |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{mm}^{2}$ | Ohm/ <br> km | Ohm/ <br> km | Ohm/ <br> km | Ohm/ <br> km | Ohm/ <br> km | Ohm/MegOhm.k <br> km | $\mu F \times$ <br> km | $\mathrm{kV} \times$ <br> mm | A | A | A |
| 185 | 0.164 | 0.211 | 0.211 | 0.121 | 0.136 | 0.181 | 9000 | 0.269 | 2.95 | 426 | 350 |

## DIMENSION AND PARAMETERS

| Nominal <br> Cross- <br> sectional <br> Area | Conductor <br> Diameter | Nominal <br> Insulation <br> Thickness | Nominal <br> Diameter <br> over <br> Insulation | Screen <br> Area on <br> Each core | No. <br> Diamter of <br> Screened <br> Wires | Nom. <br> Diameter <br> Over <br> Screened <br> Wires | Nom. <br> Overall <br> Diameter | Approx. <br> Weight |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathrm{mm}^{2}$ | mm | mm | mm | $\mathrm{~mm}^{2}$ | nox mm | mm | mm | $\mathrm{kg} / \mathrm{km}$ |
| 185 | 15.7 | 5.5 | 27.9 | 20 | $35 \times 0.85$ | 29 | 35.4 | 143 |

