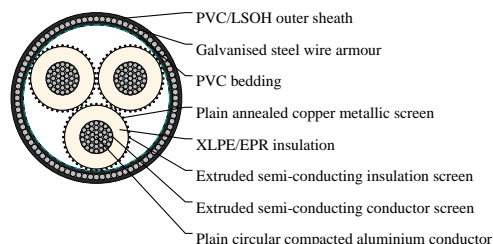




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19/33kV Three Core Individual Screened & PVC/SWA/PVC Sheathed (Al Conductor) 3C185



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 49Hz and 61Hz., they are suitable for use in distribution installation, electrical power station , they are applied for installation, outdoors, underground where subject to mechanical damage.

AS/NZS 1429.1

19/33kV

CONDUCTOR: Plain circular compacted aluminium to AS/NZS1125

Maximum Continuous Operating Temperature: 90°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: 10kA for nominal 1 second(HEAVY DUTY)

BEDDING: PVC

ARMOURING: Galvanised steel wires

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

Non-Cross-Sectional Area	Max. DC Resistance @20°C	Conductivity AC Resistance @50Hz and 90°C	Inductive reactance @50Hz	Insulation Resistance @20°C	Conductivity to screen capacitance	Max. dielectric stress	Charging current per phase	Dielectric loss per phase	Screen DC resistance at 20°C	Armour DC resistance at 20°C	Zero sequence resistance at 20°C	Zero seq. react. at 50Hz
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Caledonian

Industrial Cables (Australian Standard Medium Voltage)

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mm ²	Ohm/ km	Ohm/ km	Ohm/M km	MegOhm.k	μF × km	kV × mm	A × km	W × km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km
185	0.164	0.211	0.117	12000	0.202	3.31	1.2	91.5	0.265	0.241	0.543	0.0694

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Nominal Dia. over Bedding	Screen Area on Each core	No. Diameter of Screened Wires	Nominal Armour Wire Diameter	Diameter under Armour	Nom. Diameter Over Screened Wires	Nom. Overall Diameter	Approx. Weight
mm ²	mm	mm	mm	mm	mm ²	no x mm	mm	mm	mm	mm	kg/km
185	15.7	8	33.2	84.1	68.1	40x0.85	3.15	90.4	36.7	98.8	1270