



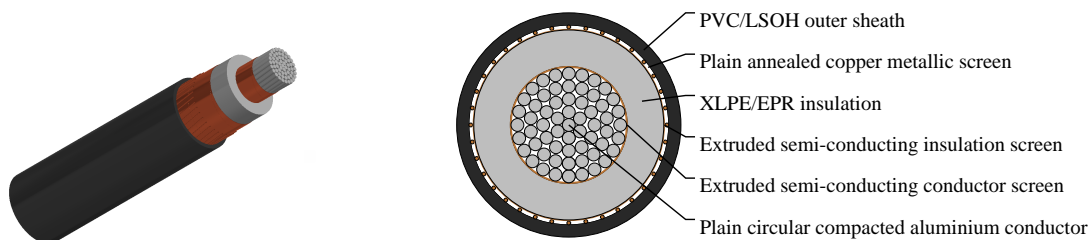
Caledonian

Industrial Cables (Australian Standard Medium Voltage)

www.caledonian-cables.com

marketing@caledonian-cables.com

19/33kV Single Core Screened & PVC Sheathed (Al Conductor) Light Duty 1C400



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 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.

STANDARDS

AS/NZS 1429.1

VOLTAGE RATING

19/33kV

CABLE CONSTRUCTION

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: 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

NonMax. Conduc	Cond.	Cond.	Inductive	Inductive	Inductive	Insulation	Conductor	Max.	Current	Current	Current
Cross-DC	AC	AC	reactance	reactance	reactance	Resistance	to	dielectric	Ratings	Ratings	Ratings
SectionResistan	Resistan	Resistan	@50Hz	@50Hz	@50Hz	@20°C	screen	stress	Unenclose	(Buried	(Buried
Area	@20°C	@50Hz	and	and	and		capacitanc		In Air)	Direct)	In
		and	90°C	90°C	90°C						Ducts)
		(Trefoil	(flat	(flat	(flat						
		spaced)	touching	touching	spaced)						



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		or Flat touching)										
mm ²	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/Meg km	Ohm.k	μF × km	kV × mm	A	A	A
400	0.0778	0.101	0.101	0.116	0.131	0.177	9100	0.267	3.02	677	521	459

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Screen Area on Each core	No. Diameter of Screened Wires	Nom. Diameter Over Screened Wires	Nom. Overall Diameter	Approx. Weight
mm ²	mm	mm	mm	mm ²	no x mm	mm	mm	kg/km
400	23	8	40.7	20	36x0.85	41.3	48.6	261