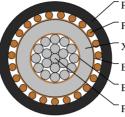


Caledonian

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

3.8/6.6kV Single Core Screened & PVC Sheathed (Al Conductor) Light Duty 1C50





PVC/LSOH outer sheath
Plain annealed copper metallic screen
XLPE/EPR insulation
Extruded semi-conducting insulation screen
Extruded semi-conducting conductor screen
Plain circular compacted aluminium conductor

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

3.8/6.6kV

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

NonMa	x.Conduc	Cond.	Cond.	Inductive	Inductive	Inductive	nsulatio	Conducto	Max.	Current	Current	Current
Cross-	DC	AC	AC I	eactance	eactance	eactand	Resistanc	to o	liaelectri	Ratings	Ratings	Ratings
SectiorR	lesistan B	lesistan b	Resistanc	@50Hz	@50Hz	@50Hz	@20°C	screen	stress(L	Inenclose	(Buried	(Buried
Area	@20°C	@50Hz	@50Hz	and	and	and	Ca	apacitanc		In Air)	Direct)	In
		and	and	90°C	90°C	90°C						Ducts)
		90°C	90°C	(Trefoil	(flat	(flat						
		(Trefoil	(flat	touching)	touching)	spaced)						
			spaced)									



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		or Flat touching)										
mm²	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/M km	egOhm.k	μF × km	kV × mm	A	A	A
50	0.641	0.821	0.821	0.135	0.150	0.196	7800	0.309	1.87	160	167	159

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Screen Area on Each core	Nom. Diameter Over Screened Wires	Nom. Overall Diameter	Approx. Weight
mm²	mm	mm	mm	mm²	mm	mm	kg/km
50	8.1	2.5	14.2	17.6	15.6	21.1	60