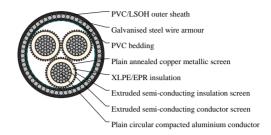


# Caledonian

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

#### 3.8/6.6kV Three Core Individual Screened & PVC/SWA/PVC Sheathed(Al Conductor) 3C120





#### **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: 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

### **TECHNICAL CHARACTERISTICS**

NonMax.Conduc Cond. InductivensulatioConducto Max. ChargindDielectric Screen Armour Zero Zero AC reactand Resistanc Cross-DC diaelectric current DC DC to loss sequence seq. SectiorResistanResistanc @50Hz @20°C screen stress per per resistancesistance react. @50Hz phrase at 20°C at 20°C at 20°C Area @20°C capacitand phase at 50Hz and 90°C



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mm²	Ohm/ km	Ohm/ km	Ohm/M km	egOhm.k	μF × km	kV × mm	A × km	W × km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km
120	0.253	0.325	0.0976	5500	0.439	1.74	0.524	7.96	0.265	0.487	0.769	0.0497

## DIMENSION AND PARAMETERS

Nominal								Diameter		Nom.	Approx.
Cross-	Diameter	Insulation	Diameter	Dia.	Area on	Diamter	Armour	under	Diameter	Overall	Weight
sectional		Thickness	over	over	Each	of	Wire	Armour	Over	Diameter	
Area			Insulation	Bedding	core	Screened	Diameter		Screened		
						Wires			Wires		
mm²	mm	mm	mm	mm	mm²	no x mm	mm	mm	mm	mm	kg/km
120	12.8	2.5	18.9	51.6	68.1	40x0.85	2.5	56.6	22.2	62.6	615