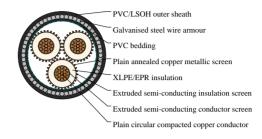


### Caledonian

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

#### 6.35/11kV Three Core Individual Screened & PVC/SWA/PVC Sheathed(Cu Conductor) 3C50





#### **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**

6.35/11kV

#### CABLE CONSTRUCTION

CONDUCTOR: Plain circular compacted copper 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

NonMa	x.Conduc	Cond.	Inductive	nsulatio	Conducto	Max.	Charging	Dielectric	Screen	Armour	Zero	Zero
Cross-	DC	AC i	reactande	Resistanc	to (	diaelectri	current	loss	DC	DC :	sequence	seq.
SectionF	Resistan	esistand	@50Hz	@20°C	screen	stress	per	per r	esistana	esistana	esistance	react.
Area	@20°C	@50Hz		Ca	apacitano		phase	phrase	at 20°C	at 20°C	at 20°C	at
		and										50Hz
		90°C										



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mm²	Ohm/ km	Ohm/ km	Ohm/M km	egOhm.k		kV × mm	A × km			Ohm/ km		
50	0.387	0.494	0.121	10000	0.242	2.46	0.484	12.3	0.366	0.559	1.05	0.0725

### **DIMENSION AND PARAMETERS**

	Conducto Diameter					No. Diamter		Diameter	Nom. Diameter	Nom.	Approx. Weight
sectional		Thickness	over	over	Each	of	Wire	Armour		Diameter	U
Area			Insulation	Bedding	core	Screened Wires	Diameter		Screened Wires		
mm²	mm	mm	mm	mm	mm²	no x	mm	mm	mm	mm	kg/km
111111						mm					Kg/KIII
50	8	3.4	16	45.1	49.4	29x0.85	2.5	50.1	19.3	55.7	565