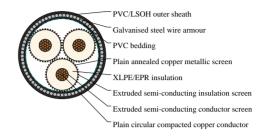


# Caledonian

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

### 19/33kV Three Core Individual Screened & PVC/SWA/PVC Sheathed(Cu Conductor) 3C70





#### **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 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	μF × km		A × km		Ohm/ km			
70	0.268	0.342	0.139	16000	0.148	3.82	0.883	67.1	0.265	0.288	0.682	0.0909

## **DIMENSION AND PARAMETERS**

	Conducto Diameter					No. Diamter	Nominal				Approx. Weight
sectional		Thickness		over	Each	of	Wire	Armour	Diameter Over	Diameter	
Area				Bedding	core	Screened	Diameter		Screened		
						Wires			Wires		
mm²	mm	mm	mm	mm	mm²	no x mm	mm	mm	mm	mm	kg/km
70	9.6	8	27.1	70.2	68.1	40x0.85	3.15	76.5	30.4	83.9	1080