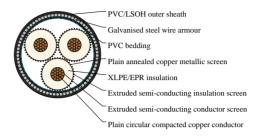


# Caledonian

# 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)3C95





#### **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/M km	egOhm.k		kV × mm	A × km			Ohm/ km		
95	0.193	0.247	0.128	15000	0.165	3.61	0.984	74.8	0.265	0.272	0.596	0.0807

## **DIMENSION AND PARAMETERS**

Nominal	Conducto	Nominal	Nominal	Nominal	Screen	No.	Nominal	Approx.	Nom.	Nom.	Approx.
Cross-	Diameter	Insulation	Diameter	Dia.	Area on	Diamter	Armour	Overall	Diameter	Overall	Weight
sectional		Thickness	over	over	Each	of	Wire	Diameter	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
95	11.5	8	29	74.2	68.1	40x0.85	3.15	80.5	32.3	88.2	1220