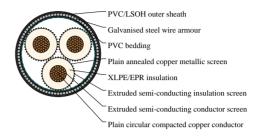


# Caledonian

# 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) 3C185





#### **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										



# Caledonian

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

mm²							A × km					
185	0.0991	0.128	0.116	12000	0.205	3.29	1.23	93.2	0.266	0.238	0.476	0.0685

## **DIMENSION AND PARAMETERS**

Nominal							Nominal			Nom.	Approx.
	Diameter				Area on Each	Diamter of	Armour Wire		Diameter	Overali Diameter	Weight
sectional Area		Thickness		over Bedding		Screened		Armour			
Alea			IIISulation	Deduing	core	Wires	Diameter		Screened Wires		
						vviies			vviies		
mm²	mm	mm	mm	mm	mm²	no x	mm	mm	mm	mm	kg/km
						mm					
185	16.1	8	33.6	85.2	68.1	40x0.85	3.15	91.5	37.1	99.9	1630