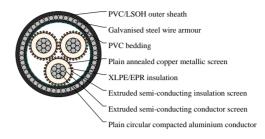


Caledonian

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) 3C35





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

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		
35	0.868	1.11	0.12	8700	0.278	1.92	0.332	5.04	0.761	0.643	1.91	0.0709

DIMENSION AND PARAMETERS

Nominal Cross-	Conducto Diameter					No. Diamter	Nominal Armour		Nom. Diameter	Nom. Overall	Approx. Weight
sectional	-	Thickness		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	kg/km
						mm					
35	6.9	2.5	13	38.6	23.8	14x0.85	2.5	43.6	16.3	48.6	370