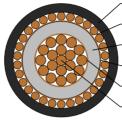


Caledonian

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

3.8/6.6kV Single Core Screened & PVC Sheathed (Cu Conductor) Heavy Duty 1C70





PVC/LSOH outer sheath
Plain annealed copper metallic screen
XLPE/EPR insulation
Extruded semi-conducting insulation screen
Extruded semi-conducting conductor screen
Plain circular compacted copper conductor

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 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)

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.	Cond.	Inductive	Inductive	Inductive	nsulatio	Conducto	Max.	Current	Current	Current
Cross-	DC	AC	AC I	reactance	eactance	eactand	Resistanc	to o	liaelectri	Ratings	Ratings	Ratings
SectiorR	lesistanB	lesistan b	Resistanc	@50Hz	@50Hz	@50Hz	@20°C	screen	stress(L	Inenclose	(Buried	(Buried
Area	@20°C	@50Hz	@50Hz	and	and	and	Ca	apacitano		In Air)	Direct)	In
		and	and	90°C	90°C	90°C						Ducts)
		90°C	90°C	(Trefoil	(flat	(flat						
		(Trefoil	(flat	touching	touching)	spaced)						
			spaced)									



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		or Flat touching)										
mm²	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/ km	Ohm/M km	egOhm.k	μF × km	kV × mm	A	A	A
70	0.268	0.342	0.342	0.130	0.145	0.191	6900	0.352	1.82	254	258	236

DIMENSION AND PARAMETERS

Nominal Cross- sectional Area	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Screen Area on Each core	No. Diamter of Screened Wires	Nom. Diameter Over Screened Wires	Nom. Overall Diameter	Approx. Weight
mm²	mm	mm	mm	mm²	no x mm	mm	mm	kg/km
70	9.6	2.5	15.7	68.1	30x1.7	20.7	25	160