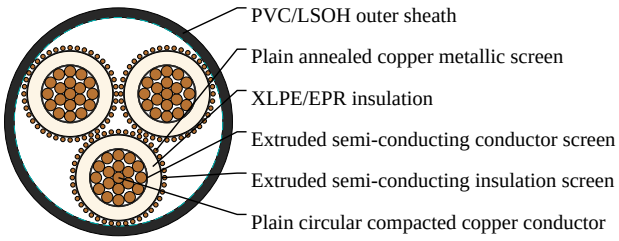
Caledonian

Industrial Cables (Australian Standard Medium Voltage)

www.caledonian-cables.com marketing@caledonian-cables.com

3.8/6.6kV Three Core Individual Screened & PVC Sheathed (Cu Conductor) Light Duty 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

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: 3kA for nominal 1 second(LIGHT 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

Nom. Cross-Section Area	Max.Conduct DC Resistance @20°C	Cond. AC Resistance @50Hz and 90°C	Inductive reactance @50Hz	Insulation Resistance @20°C	Conductor to screen capacitance	Max. diaelectric stress	Current Ratings (Unenclosed In Air)	Current Ratings (Buried Direct)	Current Ratings (Buried In Ducts)
mm²	Ohm/km	Ohm/km	Ohm/km	MegOhm.km	µF × km	kV × mm	A	A	A
70	0.268	0.342	0.109	6900	0.352	1.82	238	247	225

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DIMENSION AND PARAMETERS

Nominal Cross-sectional Area	Conductor Diameter	Nominal Insulation Thickness	Nominal Diameter over Insulation	Screen Area on Each core	Nom. Diameter Over Screened Wires	Nom. Overall Diameter	Approx. Weight
mm²	mm	mm	mm	mm²	mm	mm	kg/km
70	9.6	2.5	15.7	7.9	17.3	45.9	302