

# General Wires

## Single Core XLPE PVC 3,3kV Cable General Purpose Wire (1,9/3,3 kV)



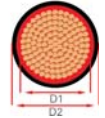
**CABLE  
YOU CAN  
TRUST**

181A Barbara Road, Elandsfontein  
PO Box 1679, Edenvale 1610  
Tel +27 (0)11 396 8000  
Fax +27 (0)11 396 8010  
[www.aberdare.co.za](http://www.aberdare.co.za)

**ABERDARE**  
CABLES

# Single Core XLPE PVC 3,3kV Cable

General Purpose Wire (1,9/3,3 kV)



D1 = Diameter over conductor D2 = Diameter over the PVC sheath

## Cable Description

High conductivity annealed stranded circular copper conductors to SANS 1411-1. Insulated with XLPE to SANS 1411-4, and sheathed with general purpose PVC to SANS 1411-2.

## Application Information

For the wiring of :

- Industrial Buildings
- Control Panels

## Properties

Specification : SANS 1507-4  
 Temperature Range : -10°C to 90°C  
 Voltage Rating : 1,9/3,3 kV  
 Core Identification : Red  
 Sheath Identification : Black  
 Packaging : 300/500m drums

## Technical Data

Product Code	Cable Size (mm <sup>2</sup> )	Nominal Diameters		Nominal Mass (kg/km)	Impedance (Ω/km)	Cables A.C. or D.C.			Cables in Trefoil Formation			
		D1	D2			Current Rating		Voltage Drop per Amp per metre (mV/A/m)	Current Rating			Voltage Drop per Amp per metre (mV/A/m)
						Ground (A)	Air (A)		Ground (A)	Duct (A)	Air (A)	
MCSX185C01GS38SD3	185	16,10	23,63	1995	0,15	554	585	0,3	449	345	537	0,3
MCSX240C01GS38SD3	240	18,71	26,69	2461	0,13	656	704	0,2	522	406	648	0,2
MCSX300C01GS38SD3	300	21,45	30,05	3182	0,11	766	804	0,2	589	459	741	0,2
MCSX400C01GS38SD3	400	24,30	33,30	4117	0,10	902	874	0,2	668	511	805	0,2
MCSX500C01GS38SD5	500	26,51	36,33	5032	0,10	1040	1013	0,2	750	583	935	0,2
MCSX630C01GS52SD5	630	33,15	42,79	6641	0,09	1229	1205	0,2	848	680	1115	0,2

Current Ratings are Based on the following Environmental Parameters

Maximum Sustained Conductor Temperature	Ground Temperature	Ambient Air Temperature	Ground Thermal Resistivity	Depth of Laying to top of Cable
90°C	25°C	30°C	1,2 K.m/W	500mm

### Quality and reliability backed by Aberdare

All cable manufactured by Aberdare Cables are covered by warranty for a period of 3 years. Please review our Terms and Conditions of Sale for further details.

# Low Voltage Product Range

Cable you can trust



## General Wires

- Slipdac Single Core Cable
- Single Core PVC 1kV Cable
- Single Core XLPE PVC 3,3kV Cable
- Surfix Cable
- Flat Twin and Earth Cable
- Cabtyre Cable
- Audio Cord (Ripcord)
- Submersible Pump Cable
- General Welding Cable
- Nitrile Trailing Cable
- Monster Cable
- HRQ Insulated Cable
- Illumination Cable
- Panel Flex Cable
- Nitrile Panel Flex Cable



## Bare Copper

- Bare Copper Wire



## Low Voltage Armoured Cables

- Bells & Mains Cable
- Multicore Cable
- Single Core Cable



## Electrodac

- Airdac SNE Cable
- Airdac CNE Cable
- Aerial Bundle Conductor (ABC) Cable



### Quality and reliability backed by Aberdare

All cable manufactured by Aberdare Cables are covered by warranty for a period of 3 years.  
Please review our Terms and Conditions of Sale for further details.

# Single Core XLPE PVC 3,3kV Cable

General Purpose Wire (1,9/3,3 kV)



## Notice to the user of Electric Cable products manufactured by Aberdare Cables:

- **“WARNING: Electrical equipment (including cable) and installations which form part of a facility, whether fixed, mobile or moveable are by nature inherently dangerous when energized with electrical power as contact with un-insulated or damaged components of such a facility may result in injury, loss of life and damage to property. Only qualified persons should attend to the installation of such electrical equipment, the maintenance thereof, and the repair of any faulty facilities which have an electrical component.”**
- Selection and Installation of the product must be carried out as per the applicable compulsory specifications by appropriately qualified persons and certified by a competent person so authorized by law prior to being put into service. All fixed electrical Low Voltage installations must have a valid Certificate of Compliance (COC)
- Low voltage electrical installations up to 600/1000V must conform to the compulsory specification SANS 10142-1 “The Wiring of Premises Part 1: Low voltage installations”
- SA Legislation determines that the User or Lessor is responsible for the safety of the electrical installation.
- All Medium Voltage installations above 1 kV must conform to the specification SANS 10198 “The Selection, Handling and installation of electric power cables of rating not exceeding 33 kV”; and where applicable SABS 10142-2 “The wiring of premises Part 2: Medium voltage installations above 1 kV a.c. and not exceeding 22kV a.c. and up to and including 3 000 kW installed capacity”.
- The following **Compulsory Safety Standards** are applicable to Electric Cables manufactured, imported and used in South Africa and no product may be used which does not comply to the applicable standard:
  - (VC 8075) SANS 1507: Electric Cables with solid dielectric insulation for fixed installations (300/500 V to 1900/3300 V)
  - (VC 8077) SANS 1339: Electric Cables Cross linked Polyethylene (XLPE) insulated cables for rated voltages 3,8/6,6 kV to 19/33 kV
  - (VC 8077) SANS 97: Electric Cables Impregnated paper insulated metal sheathed cables for rated voltages 3,3/3,3 kV to 19/33 kV
  - (VC8006) SANS 1574: Electric Flexible Cables with solid dielectric insulation.
- All cables manufactured to a compulsory safety standard must be clearly marked with the applicable SANS standard number as well as the Manufacturer's name.
- Aberdare Cables manufactures all Electric Cables made to Compulsory standards under the SABS Mark scheme. Products manufactured under the SABS mark scheme carries the wording “SABS” to show that the manufacturer is a licensed Mark Holder. The SABS Mark gives the user the assurance that the South African Bureau of Standards monitors the quality of the products which carries this mark and verifies the quality system used by Aberdare Cables to manufacture these products, on an ongoing basis.
- Compulsory specifications (VC's) may be downloaded for free from the SABS website [www.sabs.co.za](http://www.sabs.co.za).
- The user of electric cable products has the right to take up any issue of concern with the **National Regulator of Compulsory Specifications at +27(0)12 428 5000**

**POSSIBLE SPECIFICATION CHANGES:** Aberdare's policy of continuous product improvement may result in changes to the finished product, the parameters of which may differ from the published parameters in this brochure. Aberdare reserves the right to change product specifications from time to time to effect improvements and/or enhancements and accepts no liability arising from any differences between the published parameters of this brochure and the finished product, unless by prior written agreement.

Unauthorised duplication of this brochure by any means is strictly prohibited.

**ABERDARE GROUP OPERATIONS CENTRE**  
181A Barbara Road, Elandsfontein, Gauteng  
PO Box 1679, Edenvale 1610  
Tel +27 (0) 11 396 8000 Fax +27 (0)11 396 8010

**DISTRIBUTION & LOGISTICS**  
**Elandsfontein** Tel +27 (0)11 396 8000 Fax +27 (0)11 396 8015

#### CUSTOMER SERVICE CENTRES

<b>Bloemfontein</b>	Tel +27 (0)51 448 9226	Fax +27 (0)51 447 9078
<b>Cape Town</b>	Tel +27 (0)21 555-2919	Fax +27 (0)21 555 2950/2
<b>Durban</b>	Tel +27 (0)31 702 2861	Fax +27 (0)31 702 2959
<b>Gauteng</b>	Tel +27 (0)11 396 8000	Fax +27 (0)11 396 8012
<b>Middelburg</b>	Tel +27 (0)13 246 2511	Fax +27 (0)13 246 2144
<b>Nelspruit</b>	Tel +27 (0)13 758 1049	Fax +27 (0)13 758 1037
<b>Port Elizabeth</b>	Tel +27 (0)41 486 1536	Fax +27 (0)41 486 1010
<b>Welkom</b>	Tel +27 (0)57 355 3395/6	Fax +27 (0)57 355 3717

[www.aberdare.co.za](http://www.aberdare.co.za)

Technical / Product Application queries email: [helpdesk@aberdare.co.za](mailto:helpdesk@aberdare.co.za) call: +27 (0)11 396 8107

