

# General Wires

## Flat Twin & Earth Cable (300/500V)



**CABLE  
YOU CAN  
TRUST**

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**ABERDARE**  
CABLES

# Flat Twin & Earth Cable

(300/500V)



## Cable Description

Copper conductors to SANS 1411-1, PVC insulated to SANS 1411-2, laid up with a bare copper earth conductor between them, UV stable PVC sheathed to SANS 1411-2.

## Application Information

Complies with SANS 10142-1 "Code of Practice for the wiring of Premises" Section 6, Clause 6.3.6:

- Roof access wiring
- Wiring in hollow walls

## Properties

Specification	: SANS 1507-2
Temperature Range	: -10°C to 70°C
Voltage Rating	: 300/500V
Sheath Identification	: White & black
Core Identification	: 2 Core - red & black, 3 Core - red, yellow, blue
Packaging	: 100m shrink-wrapped coils
	: Available on 500 & 1000 metre wooden drums on request

## Technical Data

Product Code	Cable Size **		Electrical Properties				Physical Properties				
			Conductor Resistance (dc @ 20°C)		Current Rating ***	Volt Drop ****	1 Sec Short Circuit Rating	Approx. Height & Width	Approx. Cable Mass		
	Phase	Earth	Phase	Earth						(mm <sup>2</sup> )	(Ω/km)
<b>2 Core</b>											
GTEC1.0K02CS(*)GC1	1	1	16,1	18,1	13	44	0,11	7,6 x 4,1	7		
GTEC1.5K02CS(*)GC1	1,5	1	12,1	18,1	17	29	0,14	8,7 x 4,7	8,7		
GTEC2.5K02CS(*)GC1	2,5	1,5	7,41	12,1	23	18	0,24	10,3 x 5,5	12,8		
GTEC4.0C02CS(*)GC1	4	1,5	4,61	12,1	30	11	0,38	11,9 x 6,4	17,5		
GTEC6.0C02CS(*)GC1	6	2,5	3,08	7,41	38	7,3	0,58	13,4 x 7,0	23,3		
<b>3 Core</b>											
GTEC1.0C03CC(*)GC1	1	1	18,2	18,2	12	38	0,11	4,4 x 10,4	8,9		
GTEC1.5K03CS(*)GC1	1,5	1,5	12,1	18,2	15	25	0,14	4,8 x 10,5	9,9		

**NB:** The cable shall not be installed direct in concrete or in screed. Joints in the wiring shall be in boxes only.

**\* Notes:** Product Code: GADC0.2F02AC(\*)GC1  
 BB - Black  
 WW - White  
 GY - Green/Yellow (3 Core)

**Note:** \*\* Conductors larger than 2,5mm<sup>2</sup> are usually stranded.  
 \*\*\* Maximum conductor temperature 70° C, and installed as per installation Method 2 of SANS 10142-1.  
 \*\*\*\* 2 Core - Volt drop is phase to neutral (ie. Single-phase).  
 3 and 4 Core - Volt drop is phase-to-phase. (ie. Three phase AC).

### 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



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## 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.

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