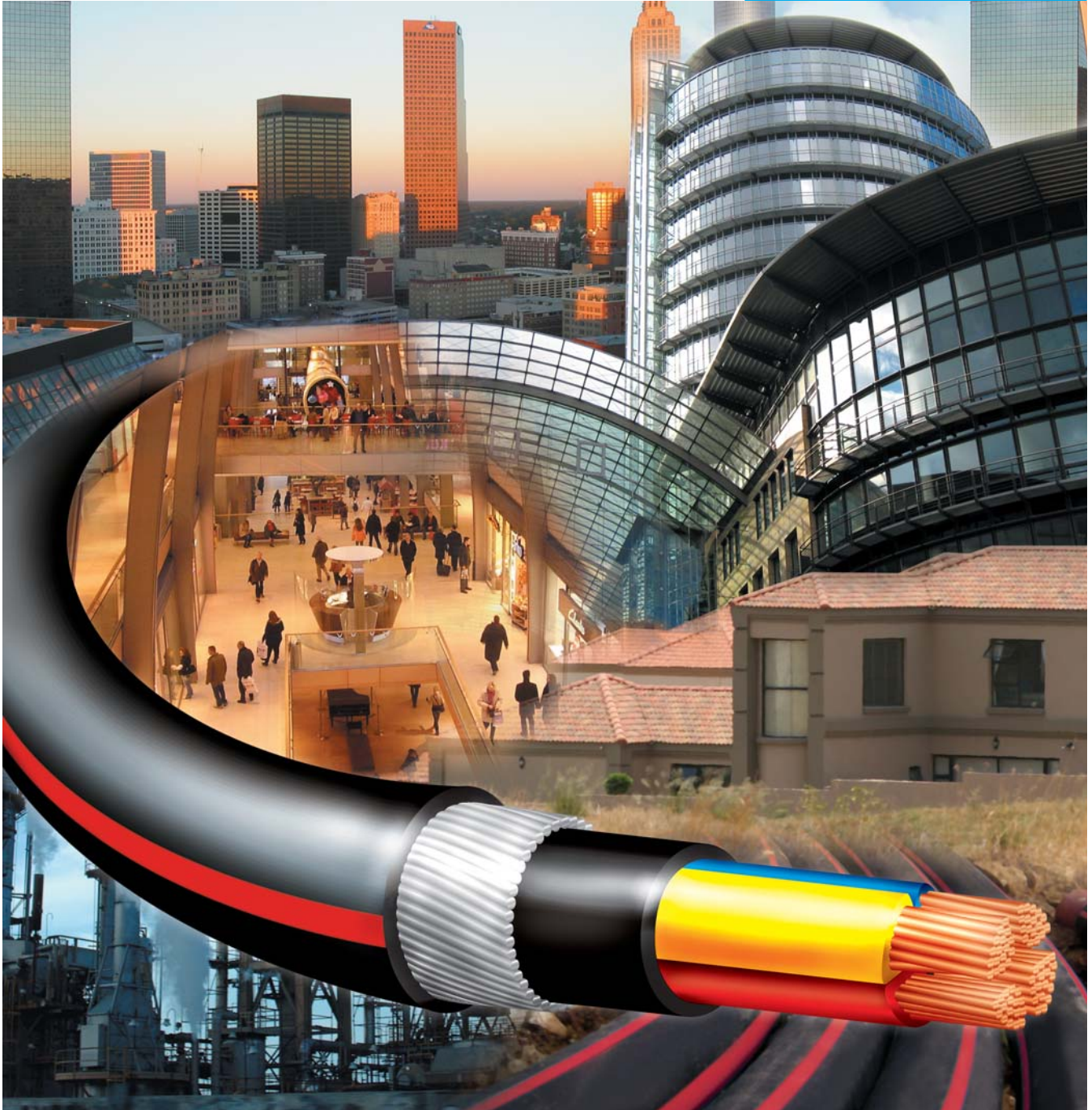


# ■ LV Armoured Cable

## Bells & Mains Cable

Fire Retardent (FR)

Black/Red & Black/Blue (LHFR)



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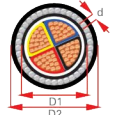
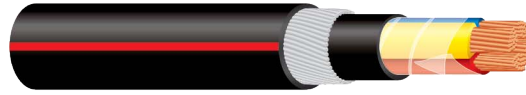
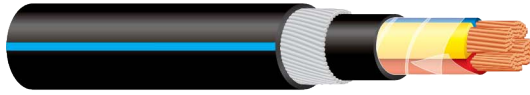
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**ABERDARE**  
CABLES

# Bells & Mains Cable

PVC PVC SWA PVC Fire Retardent (FR) Black/Red & Black/Blue (LHFR)



D1 = Diameter over bedding sheath    d = Diameter of armour wire    D2 = Diameter over outer sheath

## Cable Description

Plain copper conductors to SANS 1411-Part 1, Class 2. Two, three or four cores insulated with PVC, PVC bedded, steel wire armoured and sheathed with general purpose fire retardant PVC.

## Application Information

Distribution of low voltage power :

- Industrial plants
- Urban residential
- Shopping centres

## Properties

Specification	: SANS 1507/3
Temperature Range	: -10°C to 70°C
Voltage Rating	: 600/1000V
Core Identification	: Red, blue, yellow, white
Sheath Identification	: Black with red stripe, black with blue stripe
Packaging	: 300m or 500m. Other lengths available on request

## Technical Data - 3 Core (FR & LHFR)

### 3 Core Bells - Copper Conductors

Product Code	Cable Size (mm <sup>2</sup> )	Electrical Properties						Physical Properties			
		Current Rating			Impe- dance (Ω/km)	Volt Drop (mV/A/m)	1 Sec Short Circuit Rating (kA)	Nominal Diameters			Approx. Mass (kg/km)
		Ground (A)	Ducts (A)	Air (A)				D1 3c (mm)	d 3c (mm)	D2 3c (mm)	
BSAR1.5C03ESBRGD5	1,5	24	20	19	14,48	25,080	0,17	8,51	1,25	14,13	448
BSAR2.5C03ESBRGD5	2,5	32	26	26	8,87	15,363	0,28	9,61	1,25	15,23	522
BSAR4.0C03ESBRGD5	4	42	34	35	5,52	9,561	0,46	11,40	1,25	17,02	667
BMAR6.0C03ESBRGD5	6	53	43	45	3,69	6,391	0,69	12,58	1,25	18,4	790
BMAR10C03ESBRGD5	10	70	58	62	2,19	3,793	1,15	14,59	1,25	20,41	996
BLAR016C03ESBRGD5	16	91	75	83	1,38	2,390	1,84	16,55	1,25	22,37	1295

### 3 Core Mains - Copper Conductors

Product Code	Cable Size (mm <sup>2</sup> )	Electrical Properties						Physical Properties			
		Current Rating			Impe- dance (Ω/km)	Volt Drop (mV/A/m)	1 Sec Short Circuit Rating (kA)	Nominal Diameters			Approx. Mass (kg/km)
		Ground (A)	Ducts (A)	Air (A)				D1 3c (mm)	d 3c (mm)	D2 3c (mm)	
MCAR025C03ESBRGD5	25	119	96	110	0,8749	1,515	2,87	19,46	1,60	26,46	1838
MCAR035C03ESBRGD5	35	143	116	135	0,6335	1,097	4,02	20,89	1,60	27,89	2215
MCAR050C03ESBRGD5	50	169	138	163	0,4718	0,817	5,75	24,26	1,60	31,46	2871
MCAR070C03ESBRGD5	70	210	171	207	0,3325	0,576	8,05	27,07	2,00	35,47	3617
MCAR095C03ESBRSD3	95	251	205	251	0,2460	0,427	10,92	31,19	2,00	39,99	4901
MCAR120C03ESBRSD3	120	285	234	290	0,2012	0,348	13,80	33,38	2,00	42,18	5720
MCAR150C03ESBRSD3	150	320	263	332	0,1698	0,294	17,25	36,68	2,00	45,98	6908
MCAR185C03ESBRSD3	185	361	298	378	0,1445	0,250	21,27	40,82	2,50	51,12	8690
MCAR240C03ESBRSD3	240	416	344	445	0,1220	0,211	27,60	46,43	2,50	57,13	10767
MCAR300C03ESBRSD3	300	465	385	510	0,1090	0,189	34,50	51,10	2,50	62,20	12950

# Bells & Mains Cable

PVC PVC SWA PVC Fire Retardent (FR) Black/Red & Black/Blue (LHFR)



## Technical Data - 4 Core (FR & LHFR)

### 4 Core Bells - Copper Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	4c (mm)	4c (mm)	4c (mm)
BSAR1.5C04ESBRGD5	1,5	24	20	19	14,48	25,080	0,17	9,33	1,25	14,95	501
BSAR2.5C04ESBRGD5	2,5	32	26	26	8,87	15,363	0,28	10,56	1,25	16,18	597
BSAR4.0C04ESBRGD5	4	42	34	35	5,52	9,561	0,46	12,57	1,25	18,39	762
BMAR6.0C04ESBRGD5	6	53	43	45	3,69	6,391	0,69	13,90	1,25	19,72	910
BMAR10C04ESBRGD5	10	70	58	62	2,19	3,793	1,15	16,14	1,25	21,96	1169
BLAR016C04ESBRGD5	16	91	75	83	1,38	2,390	1,84	19,18	1,25	25,92	1768

### 4 Core Mains - Copper Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	4c (mm)	4c (mm)	4c (mm)
MCAR025C04ESBRGD5	25	119	96	110	0,8749	1,515	2,87	21,34	1,60	28,34	2196
MCAR035C04ESBRGD5	35	143	116	135	0,6335	1,097	4,02	23,97	1,60	31,17	2732
MCAR050C04ESBRGD5	50	169	138	163	0,4718	0,817	5,75	28,14	1,60	36,54	3893
MCAR070C04ESBRGD5	70	210	171	207	0,3325	0,576	8,05	31,29	2,00	40,09	4837
MCAR095C04ESBRSD3	95	251	205	251	0,2460	0,427	10,92	35,82	2,00	44,62	6115
MCAR120C04ESBRSD3	120	285	234	290	0,2012	0,348	13,80	38,10	2,00	47,40	7269
MCAR150C04ESBRSD3	150	320	263	332	0,1698	0,294	17,25	42,05	2,00	52,65	9250
MCAR185C04ESBRSD3	185	361	298	378	0,1445	0,250	21,27	46,75	2,50	57,45	11039
MCAR240C04ESBRSD3	240	416	344	445	0,1220	0,211	27,60	53,06	2,50	64,16	13726
MCAR300C04ESBRSD3	300	465	385	510	0,1090	0,189	34,50	58,53	2,50	70,13	16544

### 4 Core Mains - Aluminium Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	4c (mm)	4c (mm)	4c (mm)
MAAR025S04ESBRGD5	25	90	73	80	1,4446	2,502	1,80	20,65	1,60	27,65	1554
MAAR035S04ESBRBD5	35	108	87	99	1,0465	1,813	2,52	21,93	1,60	29,13	1757
MAAR050S04ESBRGD5	50	129	104	119	0,7749	1,342	3,61	25,05	1,60	32,25	2150
MAAR070S04ESBRGD5	70	158	130	151	0,5388	0,9333	5,05	29,27	1,60	37,67	2930
MAAR095S04ESBRSD5	95	192	157	186	0,3934	0,681	6,86	33,73	2,00	42,53	3647
MAAR120S04ESBRSD5	120	219	179	216	0,3148	0,545	8,66	35,44	2,00	44,24	4023
"On Request"	150	245	201	250	0,2607	0,452	10,83	39,39	2,50	49,69	5276
"On Request"	185	278	229	287	0,2133	0,369	13,35	44,51	2,50	54,81	6231
MAAR185S04ESBRSD5	240	324	268	342	0,1708	0,296	17,32	50,04	2,50	61,14	7550

**Notes:** Where the armouring of cable is used as the earth continuity path, it may be necessary to replace some of the steel wires with tinned copper wires (ECC) or to use a supplementary earth continuity conductor.

### Flamosafe range of fire performance of electric cables:

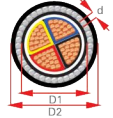
FR (Flame Retardant) Red and Orange Stripe cables are designed to reduce the spread of fire along a cable tray or duct. However, when these cables burn, they give off large quantities of toxic gases and smoke. (FYRGARD®)

LHFR (Low Halogen) Blue Stripe cables has specially formulated PVC that reduces the emission of hydro-chloric acid during burning of the cables. (LOHAL®)

NHLSFR (Non Halogen) White Stripe cables are designed to reduce flame propagation and smoke in those instances where a fire may develop. By replacing the standard PVC with XLPE insulation and EVA bedding and outer sheath, no HCl gases will be liberated during the burning of the cables. (LOTOX®)

# Bells & Mains Cable

XLPE PVC SWA PVC Fire Retardant Black/red



D1 = Diameter over bedding sheath    d = Diameter of armour wire    D2 = Diameter over outer sheath

## Cable Description

Plain copper conductors to SANS 1411 Part 1, Class 5. Three or four cores insulated with XLPE PVC bedded, steel wire armoured and sheathed with general purpose fire retardant PVC.

## Application Information

Distribution of low voltage power :

- Underground power
- Distribution of power

## Properties

Specification : SANS 1507/3  
 Temperature Range : -10°C to 90°C  
 Voltage Rating : 600/1000V  
 Core Identification : Red, blue, yellow, white  
 Sheath Identification : Black with red stripe, black with blue stripe, black with white stripe  
 Packaging : 300m or 500m. Other lengths available on request

## Technical Data - 3 Core

### 3 Core Bells - Copper Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	3c	3c	3c
"On Request"	1,5	27	22	22	15,43	30,86	0,21	8,08	1,25	13,70	416
"On Request"	2,5	35	30	29	9,45	18,90	0,36	9,18	1,25	14,80	487
"On Request"	4	46	39	37	5,88	11,76	0,57	10,06	1,25	15,68	566
"On Request"	6	57	49	46	3,93	7,86	0,86	11,25	1,25	16,87	683
"On Request"	10	76	67	61	2,33	4,66	1,43	13,25	1,25	19,07	890
"On Request"	16	99	92	80	1,46	2,92	2,29	15,21	1,25	21,03	1191

### 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.

**3 Core Mains - Copper Conductors**

Product Code	Cable Size (mm <sup>2</sup> )	Electrical Properties						Physical Properties			
		Current Rating			Impedance (Ω/km)	Volt Drop (mV/A/m)	1 Sec Short Circuit Rating (kA)	Nominal Diameters			Approx. Mass (kg/km)
		Ground (A)	Ducts (A)	Air (A)				D1 3c (mm)	d 3c (mm)	D2 3c (mm)	
		(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	(mm)	(mm)	(mm)	(kg/km)
"On Request"	25	147	119	138	0,93	1,86	3,58	18,13	1,60	25,13	1693
MCAP035C03ESBRGD5	35	175	142	168	0,67	1,35	5,01	19,56	1,60	26,56	2025
MCAP050C03ESBRGD5	50	207	169	204	0,50	1,00	7,15	22,49	1,60	29,69	2606
"On Request"	70	253	207	256	0,35	0,70	10,01	25,74	2,00	32,94	3323
MCAP095C03ESBRSD3	95	302	248	312	0,26	0,52	13,59	28,76	2,00	37,16	4442
MCAP120C03ESBRSD3	120	344	282	362	0,21	0,42	17,16	31,39	2,00	40,19	5335
MCAP150C03ESBRSD3	150	387	318	416	0,18	0,36	21,45	34,69	2,50	43,49	6403
MCAP185C03ESBRSD3	185	435	359	478	0,15	0,30	26,46	39,05	2,50	49,35	8184
MCAP240C03ESBRSD3	240	498	413	557	0,12	0,25	34,32	44,22	2,50	54,52	10073
MCAP300C03ESBRSD3	300	558	471	634	0,11	0,22	42,90	48,45	2,50	58,35	12076

**Technical Data - 4 Core**

**4 Core Bells - Copper Conductors**

Product Code	Cable Size (mm <sup>2</sup> )	Electrical Properties						Physical Properties			
		Current Rating			Impedance (Ω/km)	Volt Drop (mV/A/m)	1 Sec Short Circuit Rating (kA)	Nominal Diameters			Approx. Mass (kg/km)
		Ground (A)	Ducts (A)	Air (A)				D1 4c (mm)	d 4c (mm)	D2 4c (mm)	
		(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	(mm)	(mm)	(mm)	(kg/km)
"On Request"	1,5	27	22	22	15,43	26,73	0,21	8,85	1,25	14,47	453
"On Request"	2,5	35	30	29	9,45	16,37	0,36	10,08	1,25	15,70	521
"On Request"	4	46	39	37	5,88	10,18	0,57	11,07	1,25	16,69	650
"On Request"	6	57	49	46	3,93	6,81	0,86	12,40	1,25	18,02	778
"On Request"	10	76	67	61	2,33	4,05	1,43	14,64	1,25	20,46	1033
"On Request"	16	99	92	80	1,46	2,55	2,29	17,68	1,25	24,42	1544

**4 Core Mains - Copper Conductors**

Product Code	Cable Size (mm <sup>2</sup> )	Electrical Properties						Physical Properties			
		Current Rating			Impedance (Ω/km)	Volt Drop (mV/A/m)	1 Sec Short Circuit Rating (kA)	Nominal Diameters			Approx. Mass (kg/km)
		Ground (A)	Ducts (A)	Air (A)				D1 4c (mm)	d 4c (mm)	D2 4c (mm)	
		(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	(mm)	(mm)	(mm)	(kg/km)
"On Request"	25	147	119	138	0,93	1,61	19,86	19,86	1,60	26,86	2018
"On Request"	35	175	142	168	0,67	1,16	22,32	22,32	1,60	29,52	2511
"On Request"	50	207	169	204	0,50	0,87	25,76	25,76	1,60	32,96	3242
"On Request"	70	253	207	256	0,35	0,61	29,81	29,81	2,00	38,21	4503
MCAP095C04ESBRSD3	95	302	248	312	0,26	0,45	33,10	33,10	2,00	41,90	5650
MCAP120C04ESBRSD3	120	344	282	362	0,21	0,37	35,87	35,87	2,00	44,67	6731
MCAP150C04ESBRSD3	150	387	318	416	0,18	0,31	40,12	40,12	2,50	50,42	8708
MCAP185C04ESBRSD3	185	435	359	478	0,15	0,26	44,77	44,77	2,50	55,07	10343
MCAP240C04ESBRSD3	240	498	413	557	0,12	0,22	50,58	50,58	2,50	61,68	12932
MCAP300C04ESBRSD3	300	558	471	634	0,11	0,19	55,56	55,56	2,50	67,16	15575

**Quality and reliability backed by Aberdare**

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Please review our Terms and Conditions of Sale for further details.

## Technical Data - 3 Core

### 3 Core Mains - Aluminium Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	(mm)	(mm)	(mm)
"On Request"	25	115	92	108	1,54	3,08	2,30	15,53	1,25	21,53	925
"On Request"	35	138	111	131	1,12	2,23	3,22	18,00	1,60	25,00	1307
"On Request"	50	164	132	160	0,83	1,65	4,60	20,09	1,60	27,09	1550
"On Request"	70	199	161	200	0,57	1,15	6,44	23,43	1,60	30,63	1911
"On Request"	95	238	194	245	0,42	0,84	8,74	25,85	1,60	33,05	2254
"On Request"	120	272	221	285	0,33	0,67	11,04	29,09	2,00	27,49	2929
"On Request"	150	306	249	328	0,28	0,55	13,80	32,15	2,00	40,95	3457
"On Request"	185	344	283	378	0,22	0,45	17,02	36,02	2,00	45,32	4132
"On Request"	240	392	325	438	0,18	0,36	22,08	40,39	2,50	50,69	5375

## Technical Data - 4 Core

### 4 Core Mains - Aluminium Conductors

Product Code	Cable Size	Electrical Properties						Physical Properties			
		Current Rating			Impedance	Volt Drop	1 Sec Short Circuit Rating	Nominal Diameters			Approx. Mass
		Ground	Ducts	Air				D1	d	D2	
		(mm <sup>2</sup> )	(A)	(A)	(A)	(Ω/km)	(mV/A/m)	(kA)	(mm)	(mm)	(mm)
"On Request"	25	115	92	108	1,54	2,67	2,30	19,16	1,60	26,16	1377
"On Request"	35	138	111	131	1,12	1,93	3,22	20,44	1,60	27,44	1549
"On Request"	50	164	132	160	0,83	1,43	4,60	23,06	1,60	30,26	1872
"On Request"	70	199	161	200	0,57	0,99	6,44	27,38	1,60	34,98	2371
"On Request"	95	238	194	245	0,42	0,72	8,74	30,99	2,00	39,39	3158
"On Request"	120	272	221	285	0,33	0,58	11,04	33,20	2,00	42,00	3584
"On Request"	150	306	249	328	0,28	0,48	13,80	36,75	2,00	46,05	4274
"On Request"	185	344	283	378	0,22	0,39	17,02	42,52	2,50	52,82	5650
"On Request"	240	392	325	438	0,18	0,31	22,08	50,40	2,50	61,50	7024

**Notes:** Where the armouring of cable is used as the earth continuity path, it may be necessary to replace some of the steel wires with tinned copper wires (ECC) or to use a supplementary earth continuity conductor.

### Flamosafe range of fire performance of electric cables:

FR (Flame Retardant) Red and Orange Stripe cables are designed to reduce the spread of fire along a cable tray or duct. However, when these cables burn, they give off large quantities of toxic gases and smoke. (FYRGARD®)

LHFR (Low Halogen) Blue Stripe cables has specially formulated PVC that reduces the emission of hydro-chloric acid during burning of the cables. (LOHAL®)

NHLSFR (Non Halogen) White Stripe cables are designed to reduce flame propagation and smoke in those instances where a fire may develop. By replacing the standard PVC with XLPE insulation and EVA bedding and outer sheath, no HCl gases will be liberated during the burning of the cables. (LOTOX®)

# 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

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Please review our Terms and Conditions of Sale for further details.

# Bells & Mains Cable

Fire Retardant (FR) Black/Red & Black/Blue (LHFR)



## 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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Electrical Accessories

