A close-up photograph of several electrical cables. Two green cables and one red cable are visible. The green cables have their outer jackets removed, revealing a braided copper shield. The red cable is also visible, though its shield is not as clearly shown. The cables are set against a light-colored, textured background.

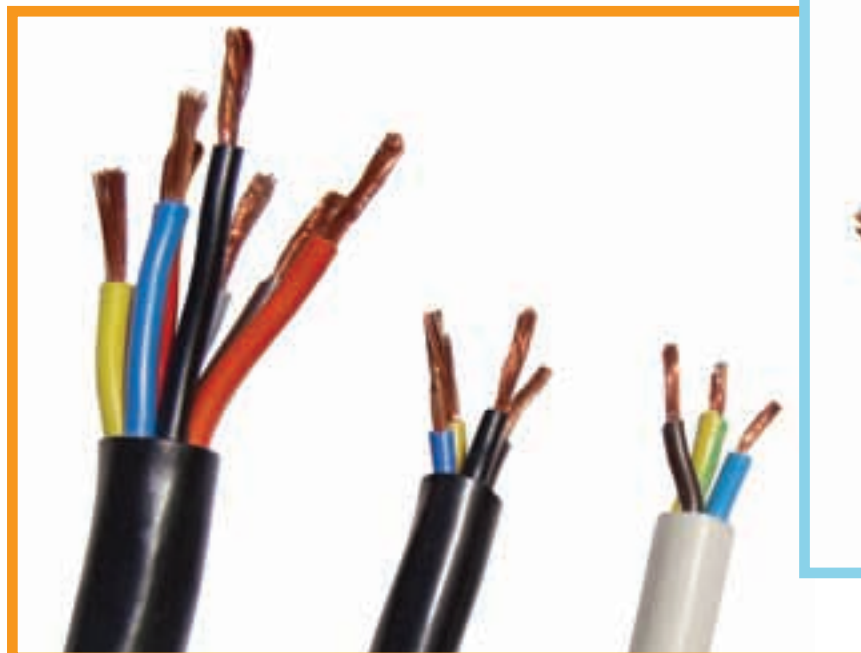
Single core & flexible cables

Introduction

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- 3 Product range

PVC Flexible cables - tables

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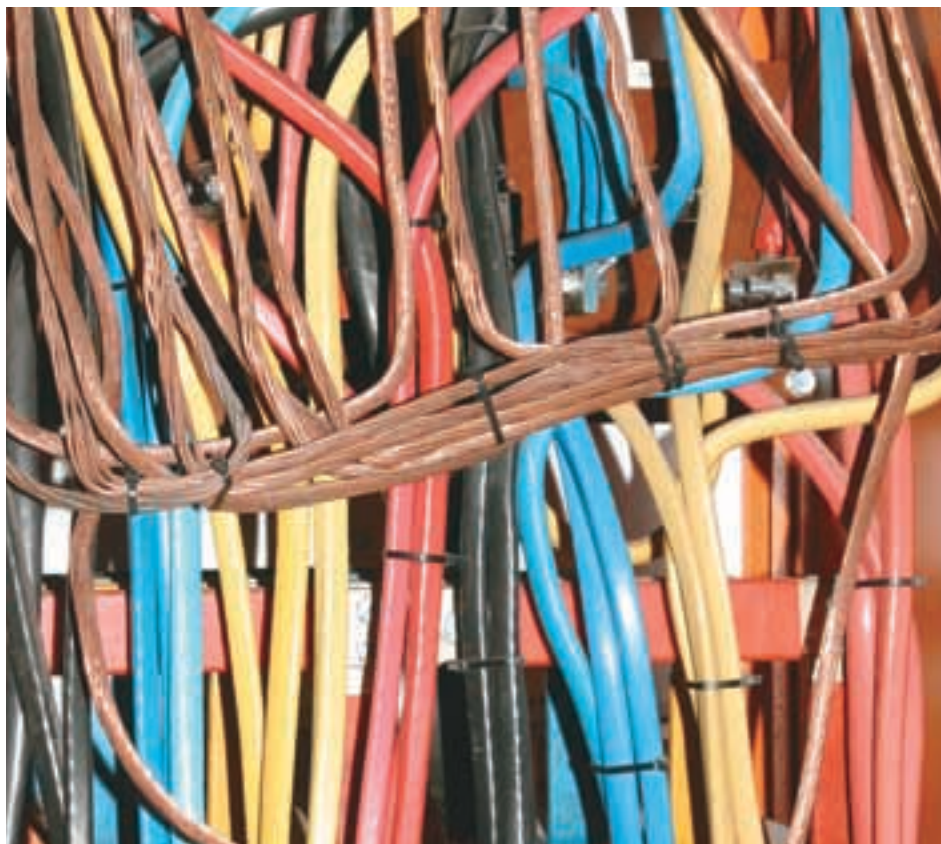


CAFCA manufactures single core and flexible cables.

This catalogue encompasses a wide range of flexible cables and single cords (cabtyre) to SAZ 240 and SANS 1557 standards with a maximum rating of 1000V.

The products find application in the general building industry and as components for electrical wiring. Generally these are found to be the products of choice for appliance wiring.

CAFCA provides you, our customer, with another opportunity to benefit from almost 70 years' experience in producing a wide range of quality products to international quality standards.



CORPORATE

CAFCA is the only cable manufacturer in Zimbabwe. It was established in 1947 and is listed on the Zimbabwe, Johannesburg and London stock exchanges. CAFCA is part of CBI Electric African Cables (RSA), which in turn is owned by Reunert Limited (RSA).

PRODUCTS & MARKETS ■■■■■

CAFCA manufactures and supplies cable and allied products for the transmission and distribution of electrical energy and information primarily in Southern and Central Africa. We manufacture over 900 cabling products including 11kV XLPE

cables, all to British, South African and Zimbabwe quality standards.

CAFCA offers a toll manufacturing option to all its customers who can access key raw materials such as copper and aluminium,

which are converted at the cost of value addition.

We also recover decommissioned cables for recycling that can be exchanged for other products within our manufacturing range.

MANUFACTURING STANDARDS

Standards Association of Zimbabwe (SAZ)

SAZ 240-Electrical cables with extruded solid dielectric 300/500V, 1900/3300V
South African National Standards (SANS, formerly SABS)
SANS 1507-PVC distribution cable rated 300/500V and 1900/3300V
SANS 1418-2 aerial bundled conductor
SANS 1339-XLPE insulated cable rated 3.8/6.6kV and 19/33kV

British Standards (BS)

BS 215 Part 1:1970 – Specification for aluminium conductors

International Electro-technical Commission (IEC)

IEC 502-Extruded solid dielectric insulated power cables 1kV and 30kV

South African Post Office (SAPO)

BS 215 Part 1:1970 – Specification for aluminium conductors

British Post Office (BPO)

BPO CW 1127 – Aerial distribution telephone cable (self-supporting)
BPO CW 1128 – Jelly-filled cellular polyethylene telephone cable

Post & Telecommunications (PTC)

Underground cables and aerial distribution copper cables
We also make product to customer's own specification.

QUALITY MANAGEMENT STANDARDS

Accredited to ISO 9001: 2000
(First company to gain accreditation in Zimbabwe: year 1999)

ENVIRONMENT MANAGEMENT STANDARDS

Accredited to ISO 9002:2000
(Design and manufacture)
(First cable company in sub-Saharan Africa to achieve the international quality standard.)

Accredited to ISO 14001:2004
(First company to gain accreditation in Zimbabwe: year 1999)

OCCUPATIONAL HEALTH AND SAFETY STANDARD

Accredited to OHSAS 18,001:2007

MILESTONES

CAFCA was the first company in Zimbabwe to achieve ISO 9002 accreditation, later upgraded to ISO 9001:2000, which enables us to design as well as produce cabling to international standards

In 1999 CAFCA became the first cable company in sub-Saharan Africa to be awarded the environmental standard, ISO 14,001:2004.

Zimbabwe Electricity Supply Authority annual supply contracts

- Low voltage armoured cables: 1985-98, 2000-03
- All aluminium conductor: 1988-99, 2001-03
- Aluminium conductor steel reinforced 1988-99, 2001-03

Anglo American Corporation annual supply contract 1985-2000

BHP annual supply contract 1996-1999

Botswana Power Corporation

- Split concentric annual supply contract 2000-2004

Botswana Ministry of Health

- Annual supply of low smoke and fume white stripe cables 2002-2004

African Cables (South Africa)

- Monthly delivery of 600/1000V red stripe to SANS 1507 2003 specifications to date

Confederation of Zimbabwe Industries (CZI)

- Industrial Exporter of the Year 1st Runner up 2005

Product group

Bare copper conductor, solid or stranded



Salient features and applications

Available as either hard drawn or annealed for equipment and circuit earthing or sold out to enamellers for motor and transformer and motor wire.

Product group

Flexible cords (cabtyre) and welding cables



Salient features and applications

Flexible cords for connecting portable equipment and for use in internal wiring.

Product group

Auto and instrument wire



Salient features and applications

Bunched fine wire conductors insulated for use as auto or instrument wire.

Product group

Indoor switchboard cable



Salient features and applications

Telephone cable for wiring distribution boards and switchboards.

Product group

Single cores



Salient features and applications

Colour coded and used in internal wiring of fixtures.

Product group

Armoured cables

Salient features and applications

Available from 1.5mm² to 300mm², 2 – 4 cores and in the 0.6/1kV and 3.3kV ranges. Other options available are flame retardant, low-tox or zerotox to meet various safety considerations in the case of a fire.



Product group

Jumper and blasting wire



Salient features and applications

Twisted pair or triple PVC insulated conductors for electronic panel wiring or for use as blasting wire.

Product group

Underground petroleum jelly-filled cables



Salient features and applications

Cross-linked polyethylene insulated communication cables with petroleum jelly as an agent against moisture ingress.

Product range

Product group

Aluminium conductors
(with or without steel
reinforcement)
AAC and ACSR



Salient features and applications

Overhead conductor for HT and LV power transmission and distribution.

Product group

Coaxial cable



Salient features and applications

Radio frequency cables, available in the 50 and 75 ohm specifications

Product group

Aerial bundled conductor

Salient features and applications

Twisted and insulated overhead aluminium conductor for overhead distribution



Product group

Aerial distribution cable



Salient features and applications

Overhead conductor for HT and LV power transmission and distribution. Self-supporting overhead telephone service cable (polythene insulated)

Product group

Medium voltage XLPE cables



Salient features and applications

XLPE insulated cable rated up to 11kV for underground power distribution networks.

Product group

Multi-core cables



Salient features and applications

Cables for control, panel wiring and signalling.

Product group

14.4mm copper rod



Salient features and applications

For equipment earthing or further drawing down to smaller wire for various applications.

OTHER PRODUCTS IN OUR RANGE

Aerial distribution cable – Self-supporting (with catenary wire) overhead service cable, polyethylene insulated

Coaxial cables – Radio frequency cables available in the 50 and 75 ohm specifications

Aerial bundled conductor – Twisted and insulated aluminium conductor for overhead power distribution

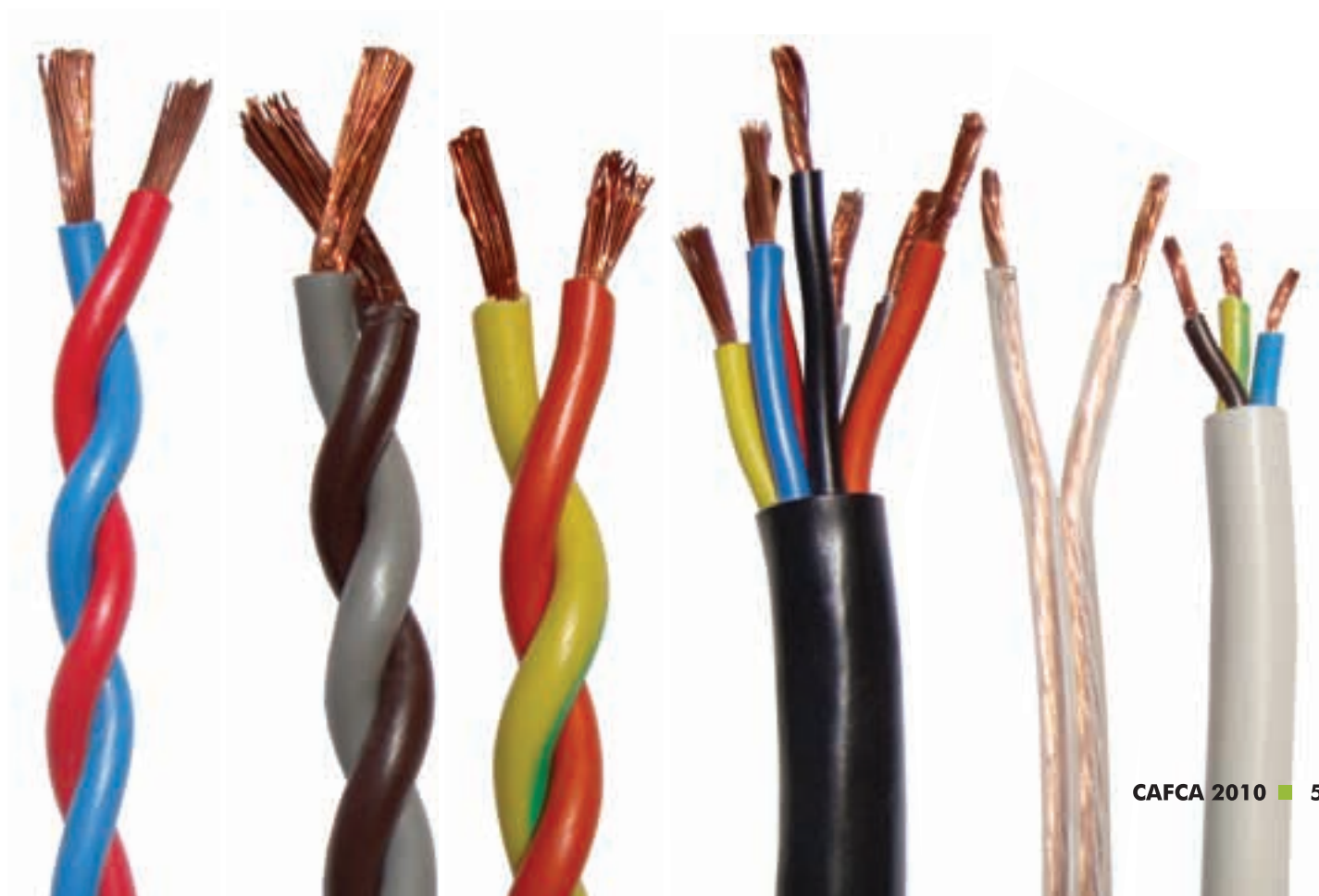
Copper rod – We convert copper cathode into 14.4 mm copper rod.

Single cores & flexible cables

This catalogue encompasses a wide range of flexible cables and single cords (cabtyre) to SAZ 240 and SANS 1557 standards with a maximum rating of 1000V.

The products find application in the general building industry and as components for electrical wiring. Generally these are found to be the products of choice for appliance wiring.

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PVC Flexible cables - tables

Single core and flexible tables

Table 1 - PVC Insulated flex panel cable 300/500V - Standard SAZ 240

Circuit applications

Automotive wiring applications.

Construction

Flexible plain copper conductor, PVC insulated.

Area of conductor	Stranding		Radial thickness of insulation	Overall diameter		Approximate cable mass	dc current rating (A) at 30°C in air
	Wire diameter	No. of wires		Lower limit	Upper limit		
mm ²	mm		mm	mm	mm	kg/km	
0.50	0.30	7	0.55	2.07	2.08	9.39	3
0.75	0.20	24	0.55	2.29	2.30	12.44	6
1.00	0.30	14	0.55	2.45	2.46	15.12	10
1.50	0.30	21	0.55	2.74	2.76	20.57	15

Table 2 - PVC high temperature cable 600/1000V - Standard SAZ 240

Circuit applications

Heavy duty power supply lead for operation at continuous conductor temperature up to 85°C.

Construction

Flexible plain copper conductor, heat resistant PVC insulated.

Area of conductor	Stranding		Radial thickness of insulation	Overall diameter		Approximate cable mass	dc current rating (A) at 30°C in air
	Wire diameter	No. of wires		Lower limit	Upper limit		
mm ²	mm		mm	mm	mm	kg/km	
0.5	0.3	7	0.80	2.60	2.60	11.80	3
1.0	0.3	14	0.80	2.97	2.99	17.89	10
1.5	0.3	21	0.80	3.27	3.28	23.61	15
2.0	0.3	28	0.80	3.51	3.53	31.02	18
2.5	0.3	35	0.80	3.73	3.75	36.54	20
3.0	0.3	44	1.00	4.39	4.41	45.68	23
4.0	0.3	56	1.00	4.68	4.70	54.94	25
5.5	0.3	80	1.00	5.17	5.20	72.94	38
6.0	0.3	84	1.00	5.24	5.28	75.92	42
7.0	0.3	98	1.00	5.50	5.53	86.24	48
8.0	0.3	120	1.00	5.86	5.90	102.30	50
10.0	0.4	80	1.00	6.19	6.23	118.35	57
16.0	0.4	126	1.00	7.23	7.29	176.45	76
25.0	0.4	196	1.20	8.92	8.99	272.27	100

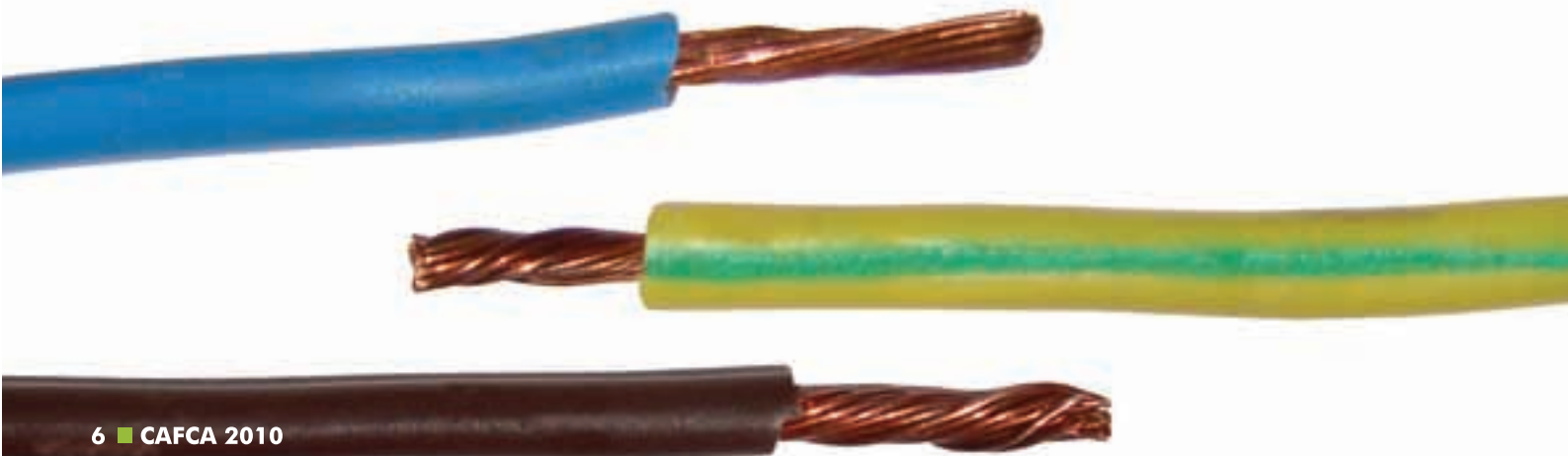


Table 3 - PVC instrument panel cables 300/500V - Standard SAZ 240

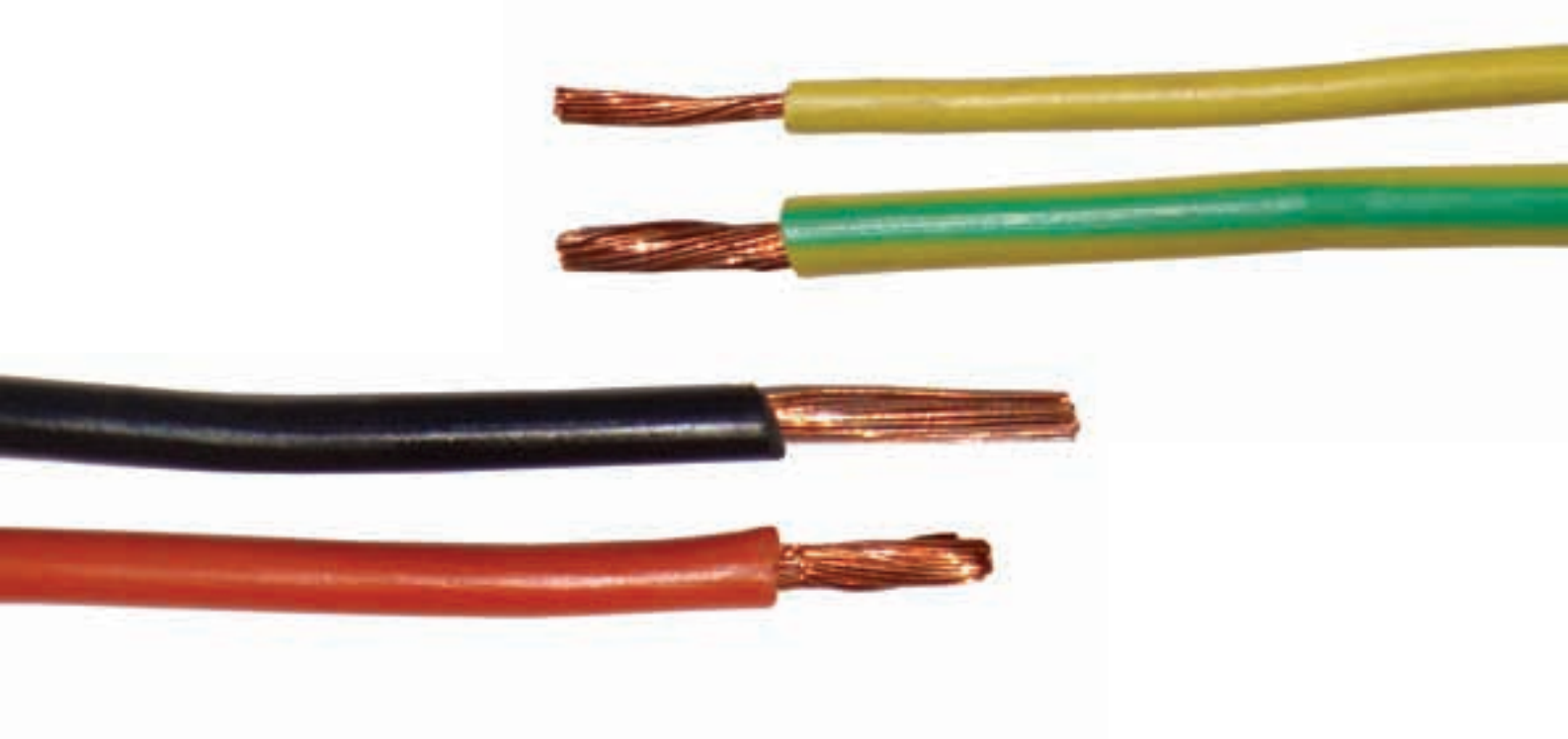
Circuit applications

Instrument and electronic panel wiring.

Construction

Single solid plain copper conductor, PVC insulated.

Area of conductor mm ²	Stranding		Radial thickness of insulation mm	Overall diameter		Approximate cable mass kg/km
	Wire diameter mm	No. of wires		Lower limit mm	Upper limit mm	
0.20	0.50	1	0.50	1.55	1.55	4.65
0.31	0.63	1	0.50	1.67	1.68	6.05
0.40	0.71	1	0.55	1.86	1.87	7.54
0.64	0.90	1	0.55	2.05	2.06	10.27



PVC Flexible cables - tables

Table 4 - PVC insulated single wiring cable 600/1000V - Standard:SAZ 240

Circuit applications

Internal wiring and equipment jumper leads.

Construction

Flexible plain copper conductor, heat resistant PVC insulated.

Area of conductor mm ²	Stranding		Radial thickness of insulation mm	Overall diameter		Approximate cable mass kg/km	dc current rating (A) at 30°C in air
	Wire diameter mm	No. of wires		Lower limit mm	Upper limit mm		
0.6	0.50	3	0.90	2.96	2.97	15.45	4
1	0.65	3	0.90	3.28	3.29	20.76	10
1.5	0.80	3	0.90	3.60	3.62	27.05	15
2.5	0.67	7	1.00	4.09	4.11	38.98	29
4	0.85	7	1.10	4.80	4.83	57.92	40
6	1.04	7	1.10	5.31	5.34	79.04	53
10	1.35	7	1.20	6.40	6.44	126.49	74
16	1.71	7	1.20	7.37	7.42	184.01	101
25	2.20	7	1.30	8.84	8.90	282.95	135
35	2.55	7	1.30	9.81	9.88	373.73	169
50	2.20	14	1.40	11.92	12.01	530.18	207
70	2.20	19	1.40	13.12	13.23	708.51	268
95	2.55	19	1.60	15.16	15.28	945.04	328
120	2.55	24	1.60	17.52	17.67	1203.90	383
150	2.55	29	1.80	18.91	19.06	1451.50	444
185	2.55	37	2.00	20.72	20.89	1820.50	510
240	2.55	49	2.20	23.88	24.08	2412.67	607
300	2.55	59	2.40	26.28	26.50	3078.28	703
400	2.36	91	2.60	29.49	29.73	3999.10	823
500	2.65	91	2.80	32.86	33.14	5020.27	946
630	2.55	127	2.80	36.57	36.88	6408.51	1088
800	2.85	127	2.80	40.18	40.52	7930.40	1300

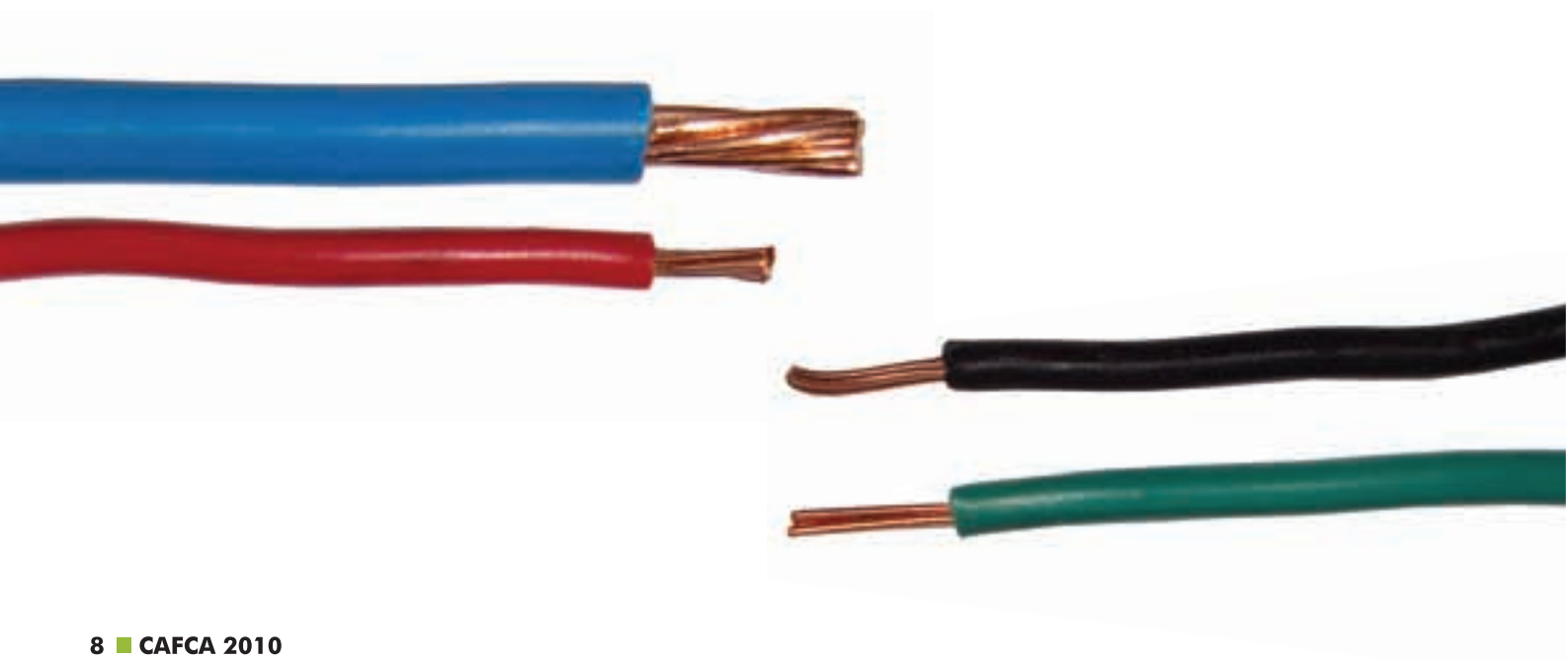


Table 5 - PVC insulated Fig. 8 rip cord 300/500V - Standard: SAZ 240

Circuit applications

Internal wiring within appliances, light fittings etc.

Construction

Two flexible plain copper conductors are laid parallel and have a common figure 8 PVC insulation.

Area of conductor	Stranding			Radial thickness of insulation	Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores		Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	kg/km
0.22	0.20	7	2	0.60	1.87 x 4.24	1.88 x 4.26	12.86
0.33	0.20	10	2	0.60	1.99 x 4.48	2.00 x 4.50	15.31
0.50	0.30	7	2	0.60	2.18 x 4.86	2.18 x 4.86	19.86
0.75	0.20	24	2	0.60	2.39 x 5.28	2.40 x 5.30	26.01



Table 6 - PVC twisted flex cord 300/500V - Standard: SABS 1574

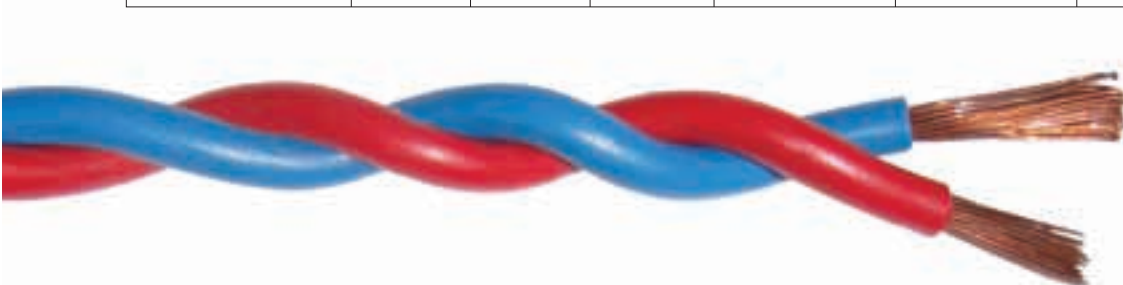
Circuit applications

Internal wiring within appliances, light fittings and control panels etc.

Construction

Single flexible plain copper conductors, PVC insulated.

Area of conductor	Stranding			Radial thickness of insulation	Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores		Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	kg/km
0.22	0.20	7	2	0.50	1.66	1.67	10.97
0.50	0.30	7	2	0.60	2.18	2.18	20.44
0.75	0.20	24	2	0.60	2.39	2.40	26.81
1.50	0.30	21	2	0.70	3.06	3.07	47.74



PVC Flexible cables - tables

Table 7 - PVC twisted flex cord 300/500V - Standard: BS 6500

Circuit applications

Flexible power/control cables for use in industrial situations where no mechanical protection is required.

Construction

Flexible plain copper conductors, PVC insulated. Cores laid up and PVC sheathed (circular cross-section).

Area of conductor	Stranding			Radial thickness of insulation		Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores	Insulation	Sheath	Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	mm	kg/km
0.22	0.20	7	3	0.40	0.60	4.42	4.44	26.16
0.50	0.30	7	2	0.60	0.80	6.07	6.09	56.99
0.50	0.30	7	3	0.60	0.80	6.42	6.44	54.97
0.50	0.30	7	4	0.60	0.80	6.96	6.99	67.05
0.75	0.20	24	2	0.60	0.80	6.50	6.52	67.96
0.75	0.20	24	3	0.60	0.80	6.88	6.91	66.44
0.75	0.20	24	4	0.60	0.80	7.48	7.51	81.86
1.00	0.30	14	2	0.60	0.80	6.83	6.86	77.23
1.00	0.30	14	3	0.60	0.80	7.24	7.27	76.26
1.00	0.30	14	4	0.60	0.90	8.09	8.12	99.34
1.00	0.30	14	5	0.60	0.90	8.83	8.87	118.60
1.00	0.30	14	7	0.60	0.90	9.60	9.64	153.27
1.50	0.30	21	2	0.70	0.80	7.83	7.86	104.49
1.50	0.30	21	3	0.70	0.90	8.54	8.57	108.39
1.50	0.30	21	4	0.70	1.00	9.51	9.55	140.69
1.50	0.30	21	7	0.70	1.00	11.32	11.36	219.22

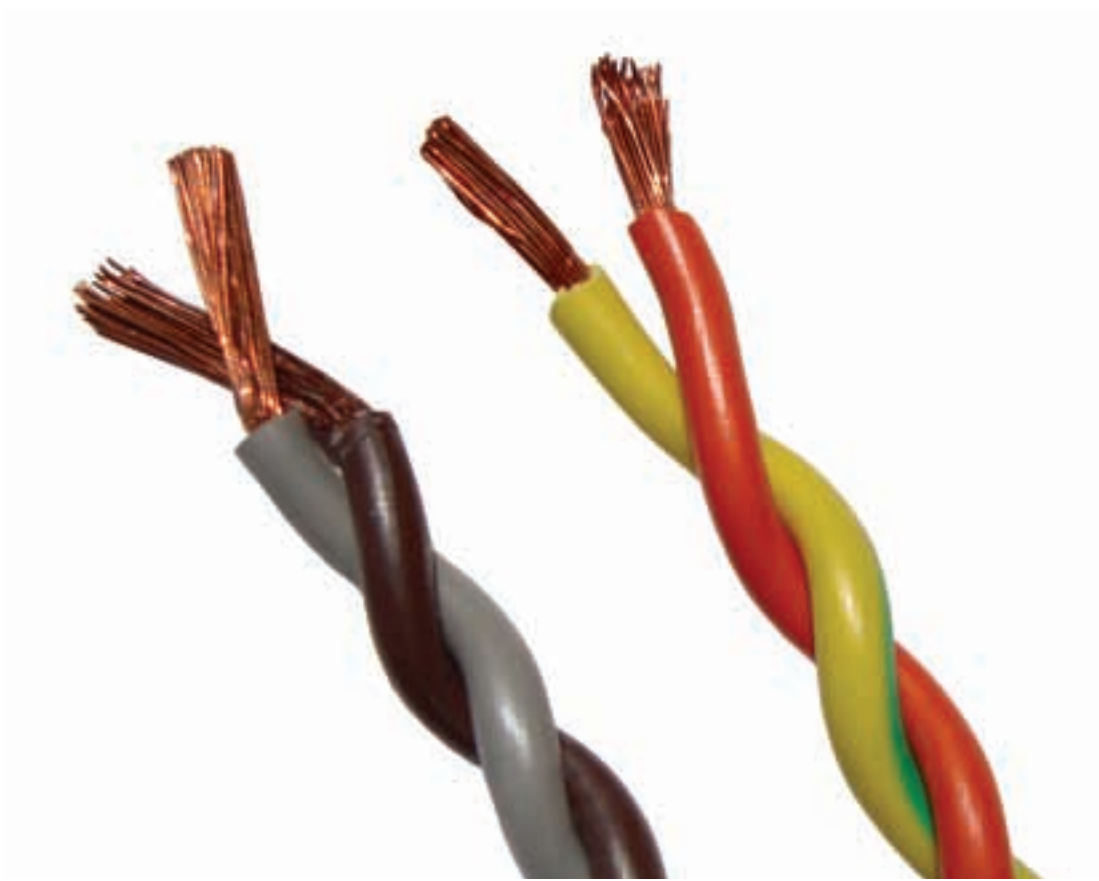


Table 8 - PVC flex cord 300/500V - Standard: SABS 1574

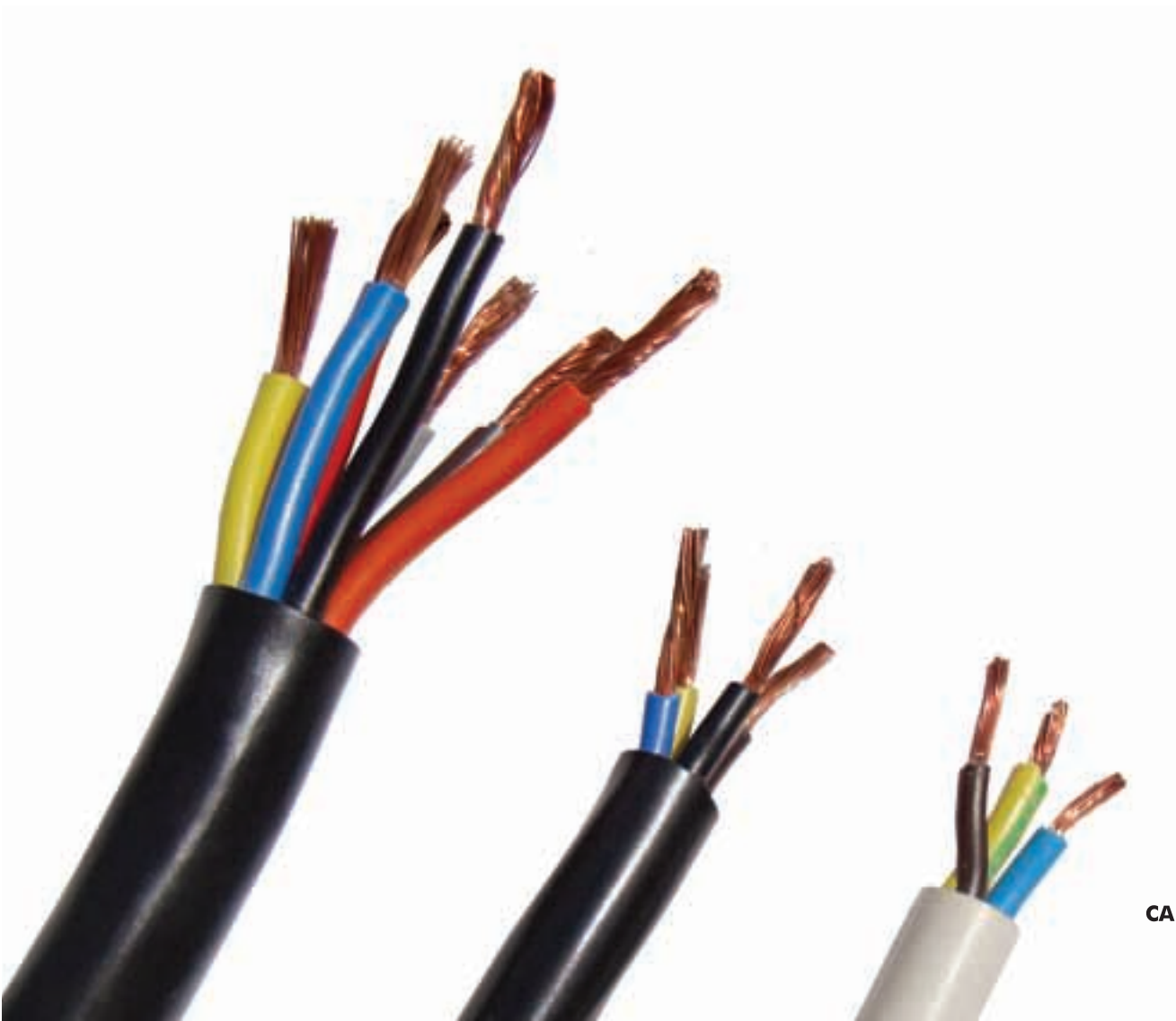
Circuit applications

Medium duty power supply leads for earthed domestic appliances, power tools, business machines, and industrial situations where no mechanical protection is required.

Construction

Flexible plain copper conductors, PVC insulated. Cores laid up and PVC sheathed (circular cross-section).

Area of conductor mm ²	Stranding			Radial thickness of insulation		Overall diameter		Approximate cable mass kg/km
	Wire diameter mm	Number of wires	Number of cores	Insulation mm	Sheath mm	Lower limit mm	Upper limit mm	
2.5	0.30	35	2	0.80	1.00	9.60	9.65	107.55
2.5	0.30	35	3	0.80	1.10	10.42	10.46	158.18
2.5	0.30	35	4	0.80	1.10	11.35	11.40	198.64
2.5	0.30	35	7	0.80	1.20	13.76	13.82	323.73
4	0.30	56	3	0.80	1.20	11.80	11.86	219.10
4	0.30	56	4	0.80	1.20	12.87	12.93	276.94



PVC Flexible cables - tables

Table 9 - PVC heavy duty flex 600/1000V - Standard: SAZ 240

Circuit applications

For connecting portable equipment such as water pumps where cable is both robust and flexibility is required.

Construction

Flexible plain copper heavy duty PVC insulation and sheath.

Area of conductor	Stranding			Radial thickness of insulation		Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores	Insulation	Sheath	Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	mm	kg/km
4.5	0.30	65	3	1.00	1.8	14.38	14.44	305.47
4.5	0.30	65	4	1.00	1.8	14.38	15.66	385.82
7	0.30	98	3	1.00	1.8	16.80	16.88	462.16
7	0.30	98	4	1.00	1.8	16.80	18.39	595.11
10	0.40	80	3	1.00	1.8	19.15	19.25	731.06
10	0.40	80	4	1.00	1.8	19.15	21.04	906.82
16	0.40	126	3	1.00	1.8	21.09	21.22	970.96
16	0.40	126	4	1.00	1.8	21.09	23.23	1214.00
25	0.40	196	3	1.20	2	25.56	25.72	1404.58
25	0.40	196	4	1.20	2	25.56	28.20	1744.27
35	0.40	276	3	1.20	2	29.62	29.82	1812.16
35	0.40	276	4	1.20	2	29.62	32.78	2268.77
50	0.40	396	3	1.40	2.2	34.89	35.13	2358.10
50	0.40	396	4	1.40	2.2	34.89	38.65	3065.09
70	0.50	360	3	1.40	2.2	39.46	39.75	3249.58
70	0.50	360	4	1.40	2.2	39.46	43.80	4323.82
95	0.50	475	3	1.60	2.2	43.13	43.44	4020.46
95	0.50	475	4	1.60	2.4	43.56	48.35	5350.20
185	0.50	925	4	2.00	3	59.12	65.71	9871.31



Table 10 - TPR heavy duty flex 600/1000V - Standard: SAZ 240

Circuit applications

Suitable for heavy duty industrial applications where a high flexibility is required, e.g. welding.

Construction

Flexible plain copper conductors, thermoplastic rubber insulated cores. Cores laid up and thermoplastic rubber sheath applied.

Area of conductor	Stranding			Radial thickness of insulation		Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores	Insulation	Sheath	Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	mm	kg/km
4.5	0.3	65	3	1.10	1.8	14.83	14.89	301.23
4.5	0.3	65	4	1.10	1.8	14.83	16.17	381.35
7	0.3	98	3	1.10	1.8	17.25	17.33	452.93
7	0.3	98	4	1.10	1.8	17.25	18.89	583.96
10	0.4	80	3	1.20	1.8	20.05	20.16	709.60
10	0.4	80	4	1.20	1.8	20.05	22.05	882.80
16	0.4	126	4	1.20	1.8	22.00	24.24	1184.23
25	0.4	196	4	1.30	2	26.02	28.71	1730.29
35	0.4	276	4	1.30	2	30.08	33.29	2248.98
50	0.4	396	4	1.40	2.2	34.89	38.65	3033.92
70	0.5	360	4	1.40	2.2	39.46	43.80	4265.62



Table 11 - PVC high temperature flex 300/500V - Standard: SAZ 240

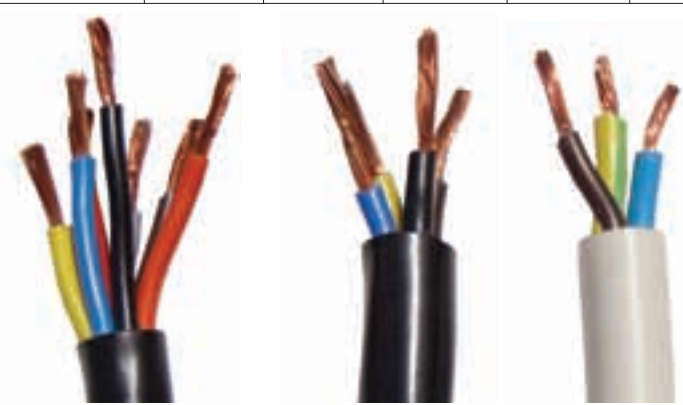
Circuit applications

Medium duty power supply lead for operation at continuous conductor temperature up to 85°C.

Construction

Flexible plain copper conductors, heat resistant PVC insulated cores. Cores laid up and heat resisting PVC sheath applied.

Area of conductor	Stranding			Radial thickness of insulation		Overall diameter		Approximate cable mass
	Wire diameter	Number of wires	Number of cores	Insulation	Sheath	Lower limit	Upper limit	
mm ²	mm			mm	mm	mm	mm	kg/km
0.5	0.30	7	2	0.60	0.80	6.07	6.09	40.61
0.5	0.30	7	3	0.60	0.80	6.42	6.44	51.55
0.5	0.30	7	4	0.60	0.80	6.96	6.99	63.30





CONTACT US

Sales and Marketing Team

CAFCA Limited

54 Lytton Road, Workington, Harare, Zimbabwe

P.O. Box 1651, Harare, Zimbabwe

Tel: +263 (04) 754075, 754084

Fax: +263 (04) 754080, 754086

E-mail: marketing@cafca.co.zw

www.cafca.co.zw