

AUTOMOTIVE WIRE

High Quality, tried and tested. Manufactured in South Africa.

- Automotive wiring and harness assembly.
- Flexible annealed copper conductors SABS 1411 Part 1 class 5 resistance.
- PVC with stand temperatures from -15° C to 80° C as per SABS standard.
- Full range of colours on all sizes & tracers available from 0.50mm² to 2.5mm².
- Supplied on plastic spools in 30m, 50m & 100m or on wooden drums in bulk.



PART NO:	NOMINAL SIZE mm ²	DIAMETER OF INDIVIDUAL WIRES	RESISTANCE MAX @ 20° C MAXIMUM MΩ/KM	INSULATION / WALL THICKNESS	NOMINAL OUTSIDE DIAMETER	MAX. AMPS CONDUCTOR 50°
FLRY0050	0.50mm ²	0,2	39.00 mΩ/km	0.30 - 0.35	1,70	11 A
FLRY0075	0.75mm ²	0,3	26.00 mΩ/km	0.30 - 0.35	1,90	13 A
FLRY0100	1.00mm ²	0,3	19.50 mΩ/km	0.35 - 0.40	2,10	16 A
FLRY0125	1.25mm ²	0,3	15.78 mΩ/km	0.35 - 0.40	2,20	18 A
FLRY0150	1.50mm ²	0,3	13.30 mΩ/km	0.35 - 0.40	2,40	21 A
FLRY0200	2.00mm ²	0,3	9.98 mΩ/km	0.46 - 0.47	2,70	24 A
FLRY0250	2.50mm ²	0,3	7.98 mΩ/km	0.46 - 0.47	3,00	29 A
FLRY0300	3.00mm ²	0,3	6.63 mΩ/km	0.49 - 0.50	3,30	33 A
FLRY0400	4.00mm ²	0,3	4.95 mΩ/km	0.50 - 0.70	3,70	40 A
FLRY0600	6.00mm ²	0,3	3.30 mΩ/km	0.50 - 0.70	4,20	49 A

Colours available : Black, Blue, Brown, Green, Grey, Orange, Pink, Purple, Red, White, Yellow



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AUTOWIRE - 5mt RANGE

Ideal for DIY. Bringing convenience home.

- Automotive wire in new packaging.
- A range of 11 basic colours and assorted traces available.



CROSS SECTION	AMP
0.50mm ²	9A
0.75mm ²	13A
1.00mm ²	16A
1.50mm ²	21A
2.00mm ²	24A
2.50mm ²	29A
3.00mm ²	33A
4.00mm ²	40A




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JUMPER CABLES

Ideal for DIY. Bringing convenience home.

WARNING: Many low cost products claiming high amperage are on the market. Most of these have insufficient copper cross section >... 

Ensure complete reliability as well as the safety for you and your vehicle by using a tried and tested Flexicor product.

- Other sizes available upon request.

- The below table is intended as a general guide only.

MAX AMP RATING	ASSISTED START WITH PARTIALLY FLAT BATTERY IN VEHICLE TO BE STARTED	FULL COLD START WITH TOTALLY FLAT BATTERY IN VEHICLE TO BE STARTED NOMINAL ENGINE SIZE IN L
LEADS O.A.L		
200 Amps 4 mm ² 2 x 2.3 m	Up to 3 L Petrol or 2.4 L Diesel	Up to 2 L Petrol or 1.4 L Diesel
400 Amps 8 mm ² 2 x 2.3 m	Up to 4 L Petrol or 3.4 L Diesel	Up to 3 L Petrol or 2.4 L Diesel
600 Amps 35 mm ² 2 x 3.5 m 2 x 5 m	Up to 10 L Diesel	Up to 7 L Diesel



MADE-UP BATTERY CABLES & EARTH STRAPS

Ideal for DIY. Bringing convenience home.

- Available in all sizes and lengths to suit all makes of motor vehicles.



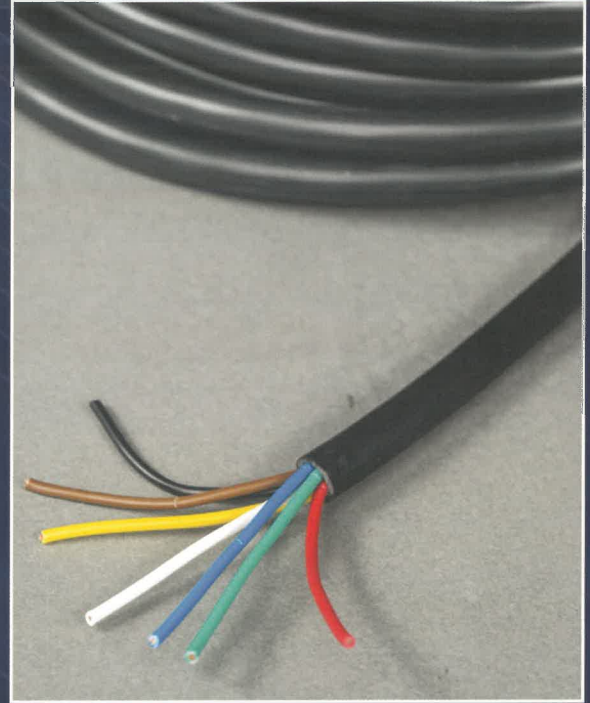
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AUTOMOTIVE MULTICORES

Connecting caravans and trailers of all sizes.

- Caravan & Trailer wiring.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance.
- PVC withstand temperatures from -15° C to 80° C as per SABS Standard.
- Supplied in shrinkwrap coils of 30mtr / 100mtr or on wooden drums of 500mtr / 1000mtr.
- All rated 100V.



LIGHT DUTY

PART NO:	NOMINAL SIZE mm ²	NOMINAL DIAMETER	CORE COLOURS
TF075-2C (2 Core)	2 x 0.75	Flat	Black & Red
MC075-3C (3 Core)	3 x 0.75	5.6mm	Black, Red & Green
MC075-5C (5 Core)	5 x 0.75	6.8mm	Black, Red, Green, Brown & Yellow
MC075-7C (7 Core)	7 x 0.75	7.5mm	Black, Red, Green, Brown, Yellow, Blue & White

HEAVY DUTY

PART NO:	NOMINAL SIZE mm ²	NOMINAL DIAMETER	CORE COLOURS
TF150-2C (2 Core)	2 x 1.5	Flat	Black & Red
MC150-3C (3 Core)	3 x 1.5	7.0mm	Black, Red & Green
MC150-5C (5 Core)	5 x 1.5	9.5mm	Black, Red, Green, Brown & Yellow
MC150-7C (7 Core)	(6 x 1.5) + (1 x 2.5)	10.4mm	(6x1.5 = Black, Red, Green, Brown, Yellow, Blue) + (1x2.5 = White)

Outer Sheath Colour: 2 Core = Grey / Black
Multicore = Black



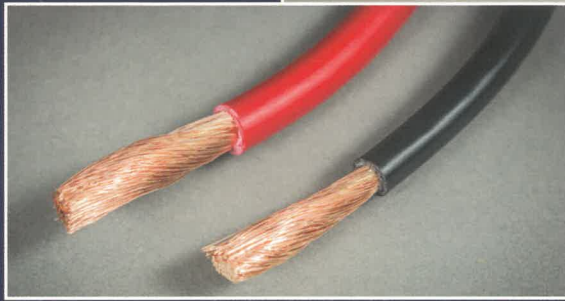
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BATTERY CABLES

High Quality, tried and tested. Manufactured in South Africa.

- Battery and Starter Cables.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance.
- PVC withstand temperatures from -15° C to 80° C as per SABS Standard.
- Supplied in shrink wrapped rolls of 10m / 30m / 100m.



PART NO:	NOMINAL SIZE mm ²	DIAMETER OF INDIVIDUAL WIRES	RESISTANCE MAX @ 20° C MAXIMUM MΩ/KM	INSULATION / WALL THICKNESS	NOMINAL EXT DIAMETER	MAX. AMPS 50° C STARTING	50° C CONTINUOUS
FLY0800	8.00mm ²	0,4	2.300 mΩ/km	0.79-0.8mm	5,50	147A	58A
FLY1000	10.00mm ²	0,4	1.910 mΩ/km	0.79-0.8mm	6,00	165A	66A
FLY1600	16.00mm ²	0,4	1.210 mΩ/km	0.79-0.8mm	8,00	240A	96A
FLY2000	20.00mm ²	0,4	0.968 mΩ/km	0.95-1.00mm	8,60	275A	110A
FLY2500	25.00mm ²	0,4	0.780 mΩ/km	0.95-1.00mm	9,80	315A	126A
FLY3500	35.00mm ²	0,4	0.554 mΩ/km	1.25-1.30mm	11,70	372A	146A
FLY4000	40.00mm ²	0,4	0.480 mΩ/km	1.35-1.40mm	12,00	412A	165A
FLY5000	50.00mm ²	0,4	0.386 mΩ/km	1.45-1.50mm	13,00	469A	189A
FLY6000	60.00mm ²	0,4	0.325 mΩ/km	1.45-1.50mm	14,00	545A	218A
FLY7000	70.00mm ²	0,4	0.272 mΩ/km	1.45-1.50mm	15,00	602A	237A
FLY9500	95.00mm ²	0,4	0.206 mΩ/km	1.45-1.50mm	18,00	720A	280A

Colours available : Black / Red as well as other colours upon request.



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PANEL WIRE

The core with flexibility.

- For the wiring of all types of control panels, light fittings, appliances, communication panels, signalling relay racks as well as many other applications.
- Flexible annealed copper conductors to SABS 1411 Part 1 Class 5.
- PVC withstand temperatures from -15° C to 80° C as per SABS standard (as a guide).
- Supplied on plastic spools in 30m, 50m & 100m or on wooden drums in bulk.



PART NO:	NOMINAL SIZE mm ²	DIAMETER OF INDIVIDUAL WIRES	RESISTANCE MAX @ 20 ° C MAXIMUM MΩ/KM	INSULATION / WALL THICKNESS	NOMINAL OUTSIDE DIAMETER	MAX. AMPS CONDUCTOR 50 °C
PAN0050	0.50mm ²	0,20	39.00 mΩ/km	0.35 - 0.40	2,10	3 A
PAN0075	0.75mm ²	0,20	26.00 mΩ/km	0.55 - 0.65	2,75	6 A
PAN0100	1.00mm ²	0,20	19.50 mΩ/km	0.55 - 0.66	2,88	13.5 A
PAN0150	1.50mm ²	0,20	13.30 mΩ/km	0.75 - 0.80	3,25	17 A
PAN0250	2.50mm ²	0,25	7.98 mΩ/km	0.75 - 0.80	3,63	24 A
PAN0400	4.00mm ²	0,30	4.95 mΩ/km	0.75 - 0.80	4,60	32 A
PAN0600	6.00mm ²	0,30	3.30 mΩ/km	0.80 - 1.00	5,20	41 A
PAN1000	10.00mm ²	0,30	1.83 mΩ/km	0.80 - 1.00	6,22	57 A
PAN3500	35.00mm ²	0,30	0.554 mΩ/km	1.00 - 1.10	10,40	125 A

Colours available : Black, Blue, Brown, Green, Grey, Orange, Pink, Purple, Red, White, Yellow



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WELDING CABLES

For safe and reliable welding.



- For use in light duty electric arc-welding machines and as flexible Panel wire.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance.
- PVC withstand temperatures from -15° C to 70° C.
- Supplied in shrink wrapped rolls of 10m / 30m / 100m.

PART NO:	NOMINAL SIZE mm ²	DIAMETER OF INDIVIDUAL WIRES	INSULATION / WALL THICKNESS	NOMINAL EXT DIAMETER	RESISTANCE MAX	MAX. AMPS 50° C WELDING 30% D/C	CONDUCTOR CONTINUOUS (5 min.)	COLOUR CODE
					@ 20° C MAXIMUM			
FLEX0012	12.00mm ²	0,2	2.00mm	9.00mm	1.910 mΩ/km	150 A	80 A	Black
FLEX0016	16.00mm ²	0,3	2.00mm	9.80mm	1.210 mΩ/km	220 A	120 A	Green
FLEX0025	25.00mm ²	0,3	2.00mm	10.80mm	0.780 mΩ/km	295 A	160 A	Blue
FLEX0035	35.00mm ²	0,3	2.00mm	12.40mm	0.554 mΩ/km	365 A	200 A	Grey
FLEX0050	50.00mm ²	0,3	2.20mm	14.00mm	0.386 mΩ/km	465 A	255 A	Red
FLEX0070	70.00mm ²	0,3	2.40mm	16.00mm	0.272 mΩ/km	575 A	315 A	Brown
FLEX0095	95.00mm ²	0,3	2.60mm	19.00mm	0.206 mΩ/km	695 A	380 A	Yellow
FLEX0120	120.00mm ²	0,3	2.60mm	20.4mm	0.161 mΩ/km	850 A	450 A	Black

HEAVY DUTY WELDING CABLES

For safe and reliable welding.



- For use in heavy duty electric arc-welding machines and as Panel wire.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance
- PVC and a tightly bonded water and oil resistant PVC/Rubber nitrile blend sheath.
- Supplied in shrink wrapped rolls of 10m / 30m / 100m or on drums of 500m

PART NO:	NOMINAL SIZE mm ²	DIAMETER OF INDIVIDUAL WIRES	INSULATION / WALL THICKNESS	NOMINAL EXT DIAMETER	WEIGHT PER METER	600/1000v CUBICLE WIRING		COLOUR CODE
						AMP RATINGS		
						1ph 220V	3ph 380V	
WELD0016	16.00mm ²	0,3	2.00mm	± 9.50mm	0.214kg	76	68	Green
WELD0025	25.00mm ²	0,3	2.00mm	± 10.60mm	0.290kg	101	89	Blue
WELD0035	35.00mm ²	0,3	2.00mm	± 12.50mm	0.416kg	125	110	Grey
WELD0050	50.00mm ²	0,3	2.20mm	± 14.5mm	0.573kg	151	134	Red
WELD0070	70.00mm ²	0,3	2.40mm	± 17.10mm	0.833kg	192	171	Brown
WELD0095	95.00mm ²	0,3	2.60mm	± 19.10mm	0.988kg	232	207	Yellow
WELD0120	120.00mm ²	0,3	2.80mm	± 21.60mm	1.257kg	269	239	Black

OTHER SIZES AVAILABLE ON REQUEST



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ALUMINIUM WELDING CABLES

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

Single core flexible tin copper conductor to SANS 1411 Part 1 insulated with general purpose flexible grade PVC and sheathed with a flexible grade waterproof PVC/Nitrile.

MOST OFTEN USED BY:

Electricians, electrical contractors, farmers, DIY enthusiasts.

A flexible power cable where flexibility is needed in equipment such as:

LV Transformers connection.

General wiring application.

Motor control centres.

PROPERTIES

Specification: SANS 1574

Voltage rating: 600/1000volts

Spark test voltage]Voltage Withstand Test: 6000 volts (rms) on cores

Conductor: 1411 Part 1, Class 2 annealed Aluminium wire

Temperature range: - 10 to + 70°C

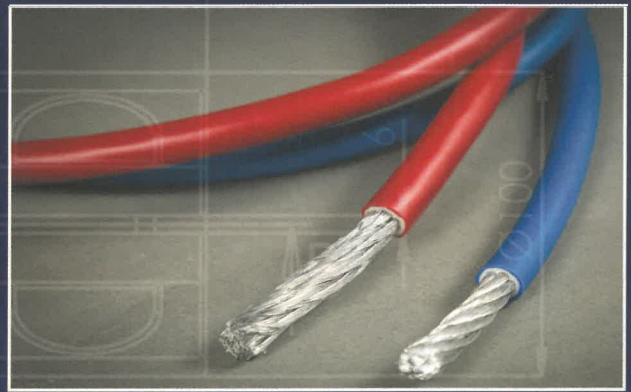
Insulation: General purpose PVC colour as below

Sheathing: Nitrile PVC

PACKAGING

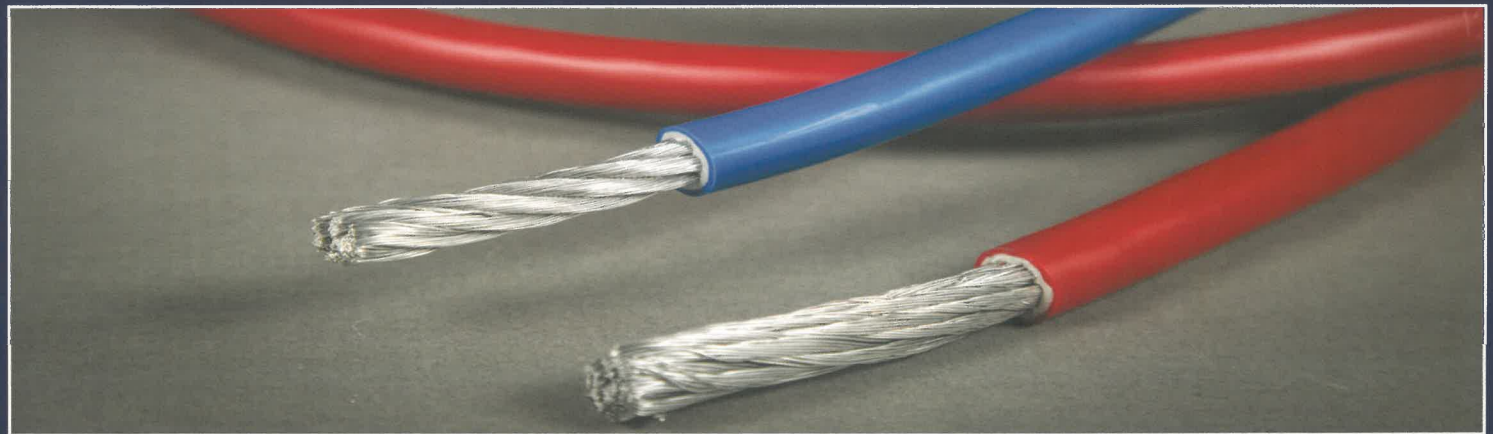
10m, 30m.,100m shrink-wrapped coils or on 500m length wooden drums

Cable Size	Product Code
mm ²	
1 x 25	ALU 0025
1 x 35	ALU 0035
1 x 50	ALU 0050



TECHNICAL DATA

ø	Individual wire OD	Insulation wall thickness	Approx. Overall Diameter	Resistance	600/100v Cubicle wiring AMP ratings		Approximate Volt Drop		Mas
					1ph 220v	3ph 380v	1φ	3φ	
mm ²	Nom (mm)	mm	mm	Ω			mV/ A/m		kg/m ³
25,00	0,40	2,00	10,60	1,200	101	89	1,7	1,5	0,152
35,00	0,40	2,00	12,50	0,868	125	110	1,3	1,1	0,218
50,00	0,40	2,00	14,50	0,641	151	134	0,9	0,8	0,264



Note:

Current ratings are based on cable installed in a cubicle, and may vary depending on other application.

Assumed ambient air temperature is 30°C

Maximum conductor temperature is 70°C



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EARTH SOCKS

High Quality, tried and tested. Manufactured in South Africa.

- For shielding around cables, ground straps, protective braid over hoses & tubing.
- As a guide-line the conductors are manufactured to SANS 1411 Part 1, Class 5.
- Non Insulated.
- Supplied in boxes.



<u>PART NO:</u>	<u>DESCRIPTION</u>	<u>DIAMETER OF INDIVIDUAL WIRES</u>	<u>MAX. AMPS</u>
QE2150/50	Tinned Copper Earth Sock 12.00mm ² x Ø50mm	0.25mm	97 Amps
QE2168/100	Tinned Copper Earth Sock 70.00mm ² x Ø100mm	0.25mm	300 Amps
QE2168/140	Tinned Copper Earth Sock 70.00mm ² x Ø140mm	0.25mm	300 Amps
QE2169/100	Tinned Copper Earth Sock 100.00mm ² x Ø100mm	0.25mm	372 Amps
QE2170/70	Tinned Copper Earth Sock 25.00mm ² x Ø70mm	0.25mm	150 Apms
QE3150/50	Plain Copper Earth Sock 12.00mm ² x Ø50mm	0.20mm	97 Amps
QE3169/100	Plain Copper Earth Sock 100.00mm ² x Ø100mm	0.30mm	372 Amps
QE3170/70	Plain Copper Earth Sock 25.00mm ² x Ø70mm	0.20mm	150 Apms



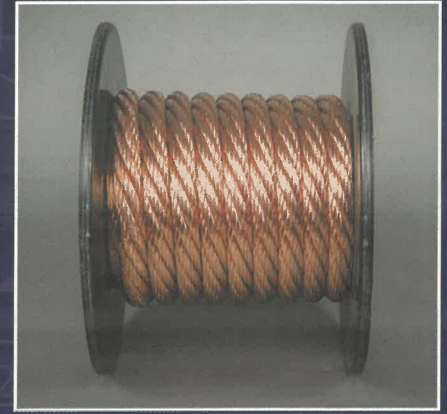
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PLAIN & TINNED COPPER STRANDS

High Quality, tried and tested. Manufactured in South Africa.

- As a guide-line the conductors are manufactured to SANS 1411-1:2008 Edition 2.1.
Table 4 - Class 6 Flexible copper conductors and flexible cords.
- PVC Insulation operating temperatures: -5°C - + 70°C.
- Supplied on wooden drums 300-500mt.
- Available in bare copper or PVC insulated.



PART NO:	DESCRIPTION	DIAMETER OF INDIVIDUAL WIRES	MAX Ø OF CONDUCTOR	RESISTANCE MAX @ 20 °C MAXIMUM MΩ/KM	CONSTRUCTION
SC001030R	10.00mm ² Plain Copper Strand	0.30mm	± 4.50mm	1.910 mΩ/km	Rope Type
SC002530R	25.00mm ² Plain Copper Strand	0.30mm	± 7.00mm	0.780 mΩ/km	Rope Type
SC003510R	35.00mm ² Plain Copper Strand	0.10mm	± 8.58mm	0.554 mΩ/km	Rope Type
SC005030R	50.00mm ² Plain Copper Strand	0.30mm	± 10.01mm	0.386 mΩ/km	Rope Type
SC007030R	70.00mm ² Plain Copper Strand	0.30mm	± 12.08mm	0.272 mΩ/km	Rope Type
SC009530R	95.00mm ² Plain Copper Strand	0.30mm	± 14.02mm	0.206 mΩ/km	Rope Type
SC012030R	120.00mm ² Plain Copper strand	0.30mm	± 16.22mm	0.161 mΩ/km	Rope Type
SC015031R	150.00mm ² Plain Copper Strand	0.30mm	± 17.20mm	0.129 mΩ/km	Rope Type
SC018541	185.00mm ² Plain Copper Strand	0.40mm	± 19.26mm	0.106 mΩ/km	Concentric Strand
SC021540	215.00mm ² Plain Copper Strand	0.40mm	± 22.44mm	0.082 mΩ/km	Concentric Strand
SC030040	300.00mm ² Plain Copper Strand	0.40mm	± 26.54mm	0.064 mΩ/km	Concentric Strand
SC040010	400.00mm ² Plain Copper Strand	0.10mm	± 29.90mm	0.049 mΩ/km	Concentric Strand
SC050010	500.00mm ² Plain Copper Strand	0.10mm	± 33.40mm	0.037 mΩ/km	Concentric Strand
SC0620160	620.00mm ² Plain Copper Strand	1.60mm	± 37.59mm	0.029 mΩ/m	Concentric Strand
SC0785120	785.00mm ² Plain Copper Strand	1.19mm	± 45.40mm	0.0219 mΩ/m	Concentric Strand
SC087540	875.00mm ² Plain Copper Strand	0.40mm	± 45.40mm	0.0204 mΩ/m	Concentric Strand
SC100020	1000.00mm ² Plain Copper Strand	0.20mm	± 52.15mm	0.0176 mΩ/m	Concentric Strand



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SPECIAL COPPER STRANDS

High Quality, tried and tested. Manufactured in South Africa.

- As a guide-line above strands are manufactured to EN 61230:2008.
Live working portable equipment for earthing or earthing and short-circuiting.
- PVC insulation operating temperatures: - 5 °C to + 70 °C.
- Supplied on wooden drums 300 - 500 mt.
- Available in all translucent colours.



NOMINAL CROSS SECTION mm ²	NOMINAL DIAM. OF BARE CONDUCTOR	NOMINAL PVC RADIAL THICKNESS	NOMINAL PVC OVERALL DIAMETER	MAX. RESISTANCE OF CONDUCTOR ohm/Km	SHORT CIRCUIT CURRENT FOR 1 SEC. (kA)
16.00	5.7	1.3	8.4	1.210	1.9
25.00	7.1	1.3	9.8	0.780	3.5
35.00	8.8	1.4	11.4	0.554	5.1
40.00	9.2	1.6	12.5	0.480	6.0
50.00	10.1	1.8	13.8	0.386	7.5
70.00	12.2	1.8	15.8	0.272	11.9
95.00	14.2	2.0	18.2	0.206	14.7
120.00	16	2.0	20.1	0.161	20.4
190.00	18	2.0	22.00	0.129	25.5



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PLAIN COPPER BRAIDS

High Quality, tried and tested. Manufactured in South Africa.

- Used as earthing straps and are also used in numerous electrical components.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance.
- Non insulated.
- Cut to customer request.



PART NO:	DESCRIPTION	DIAMETER OF INDIVIDUAL WIRES	MAX. AMPS	NOMINAL WIDTH OF BRAID
BC000130R	1.70mm ² Plain Copper Braid	0.30mm	18 Amp	± 2mm
BC001220	12.00mm ² Plain Copper Braid	0.20mm	85 Amp	± 13mm
BC001310	13.00mm ² Plain Copper Braid	0.10mm	85 Amp	± 13mm
BC001616	16.00mm ² Plain Copper Braid	0.16mm	120 Amp	± 16mm
BC001620	16.00mm ² Plain Copper Braid	0.20mm	120 Amp	± 16mm
BC002010	20.00mm ² Plain Copper Braid	0.10mm	120 Amp	± 18mm
BC002020	20.00mm ² Plain Copper Braid	0.20mm	120 Amp	± 22mm
BC002510	25.00mm ² Plain Copper Braid	0.10mm	150 Amp	± 25mm
BC003510	35.00mm ² Plain Copper Braid	0.10mm	195 Amp	± 35mm
BC003520	35.00mm ² Plain Copper Braid	0.20mm	195 Amp	± 27mm
BC003610	36.00mm ² Plain Copper Braid	0.10mm	195 Amp	± 30mm
BC005030	50.00mm ² Plain Copper Braid	0.30mm	250 Amp	± 36mm
BC007031	70.00mm ² Plain Copper Braid	0.30mm	300 Amp	± 40mm
BC009530	95.00mm ² Plain Copper Braid	0.30mm	360 Amp	± 40mm
BC010030	100.00mm ² Plain Copper Braid	0.30mm	360 Amp	± 50mm
BC015030	150.00mm ² Plain Copper Braid	0.31mm	480 Amp	± 46mm
BC020030	200.00mm ² Plain Copper Braid	0.30mm	570 Amp	± 75mm
BC024030	240.00mm ² Plain Copper Braid	0.30mm	670 Amp	± 60mm



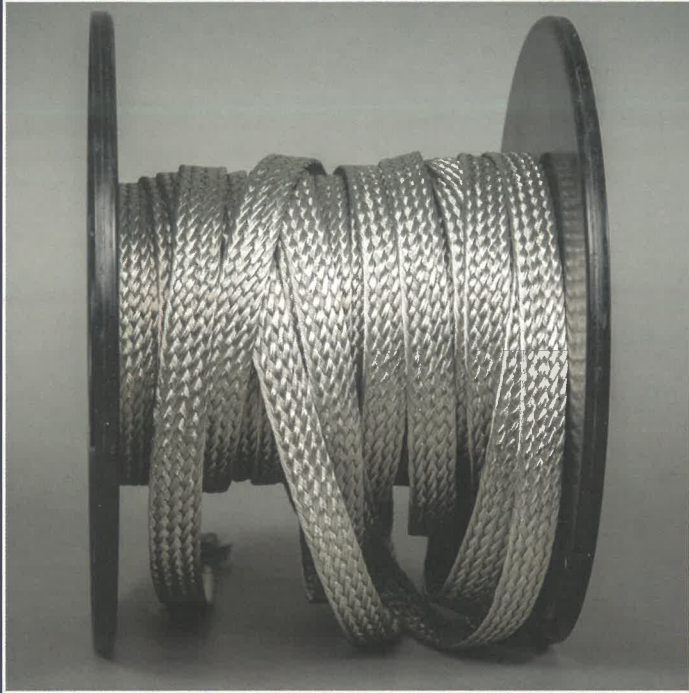
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TINNED COPPER BRAIDS

High Quality, tried and tested. Manufactured in South Africa.

- Used as earthing straps and are also used in numerous electrical components.
- Flexible annealed copper conductors SABS 1411 Part 1 Class 5 resistance.
- Non insulated.
- Cut to customer request.



PART NO:	DESCRIPTION	DIAMETER OF INDIVIDUAL WIRES	MAX. AMPS	NOMINAL WIDTH OF BRAID
BT000416	4.00mm ² Tinned Copper Braid	0.16mm	40 Amp	± 8mm
BT000418	4.00mm ² Tinned Copper Braid	0.18mm	40 Amp	± 8mm
BT000618	6.00mm ² Tinned Copper Braid	0.18mm	55 Amp	± 10mm
BT000625	6.00mm ² Tinned Copper Braid	0.25mm	55 Amp	± 9mm
BT001025	10.00mm ² Tinned Copper Braid	0.25mm	85 Amp	± 14mm
BT001616	16.00mm ² Tinned Copper Braid	0.16mm	120 Amp	± 16mm
BT001625	16.00mm ² Tinned Copper Braid	0.25mm	120 Amp	± 16mm
BT002025	20.00mm ² Tinned Copper Braid	0.25mm	120 Amp	± 20mm
BT002510	25.00mm ² Tinned Copper Braid	0.10mm	150 Amp	± 25mm
BT002516	25.00mm ² Tinned Copper Braid	0.16mm	150 Amp	± 25mm
BT002525	25.00mm ² Tinned Copper Braid	0.25mm	150 Amp	± 20mm
BT003110	31.00mm ² Tinned Copper Braid	0.10mm	150 Amp	± 20mm
BT003510	35.00mm ² Tinned Copper Braid	0.10mm	195 Amp	± 27mm
BT003525	35.00mm ² Tinned Copper Braid	0.25mm	195 Amp	± 25mm
BT004025	40.00mm ² Tinned Copper Braid	0.25mm	195 Amp	± 25mm
BT005025	50.00mm ² Tinned Copper Braid	0.25mm	250 Amp	± 30mm
BT006020	60.00mm ² Tinned Copper Braid	0.20mm	250 Amp	± 30mm
BT007025	70.00mm ² Tinned Copper Braid	0.25mm	300 Amp	± 40mm
BT007030	70.00mm ² Tinned Copper Braid	0.30mm	300 Amp	± 40mm
BT009525	95.00mm ² Tinned Copper Braid	0.25mm	360 Amp	± 41mm
BT024025	240.00mm ² Tinned Copper Braid	0.25mm	670 Amp	± 60mm



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BRAIDED, STRANDED & LAMINATED FLEXIBLE CONNECTORS

Flexibility at it's best.

Flexicor has the expertise to manufacture braided, stranded and laminated flexible connectors to suit varied applications to customer design.

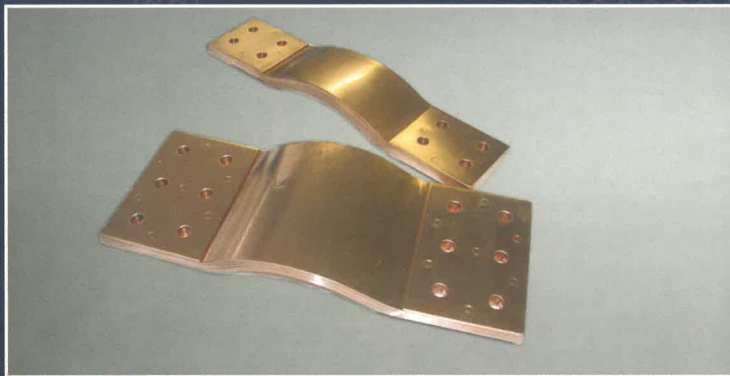
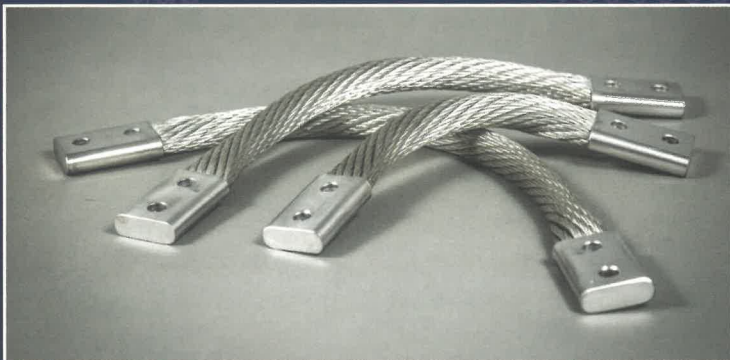
Every connector is manufactured to a master drawing to ensure a quality product and continuity of supply.

Electroplated coverings can also be offered for all kinds of terminations.

For applications where high flexibility is required, electrolytic copper bare or tinned with wire sizes from 0,10 mm diameter is used.

Flexicor, through its manufacturing capability, ensures that conductivity between the connectors and the strands are of a high standard.

Flexible Connectors are manufactured according to customer requirements and specifications. All types of Laminated Flexible Connectors are made to Customer drawing & specification.



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WATER COOLED & AIR COOLED FLEXIBLE CONNECTORS

The power connection.

Every Flexicor Water-cooled furnace cable is individually designed to suit the requirements of the furnace it will serve. Flexicor manufactures furnace cables up to the capacity of 35 000 amps (working on a current density of 5 amps per mm²).

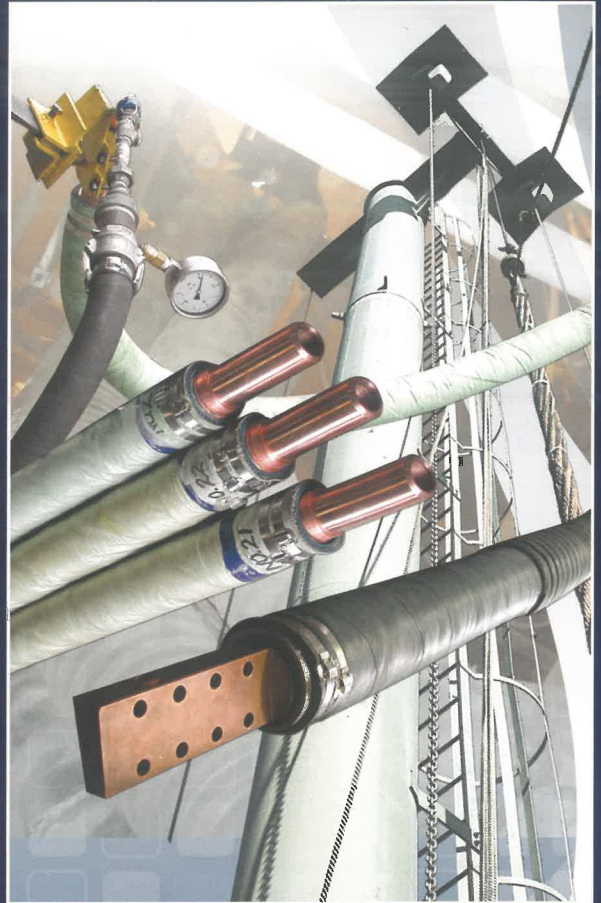
Design pre-requisites are to give a longer life, greater flexibility, improved heat resistance and reduced maintenance.

Advantages:

- Reduced downtime during replacement.
- Longer operating life.
- Safer operation, electrical insulation.
- Vastly reduced mass.
- Reduction in costs of electrode driven equipment.

Various methods are used to connect the high conductivity electrolytic tough pitch copper strand to the terminals.

Flexicor are specialists in sweating, hexagon crimping and thermal welding. The outer cover of the cable is both a water jacket and a protective sheath. It is available in various rubber and fabric combinations depending on environmental conditions of temperatures and gasses. Anti-chaff buffers are fitted to cables, if required. Correct lay up is guaranteed with minimal possibility of damaged strands. Assembly time is reduced thus improving turn around in abreakdown situation. Flexicor's cable tower can accommodate any water-cooled furnace cable in Southern Africa. Flexicor is a recommended supplier to major steel producers in Southern Africa.



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KWENA ANTI-THEFT EARTHING CONDUCTORS 100% CONDUCTIVITY

Stopping theft through innovation.



- For the earthing of Mini-Subs, Pylons, etc. and also for bonding of joints on rail tracks for electrical locomotives.
- The DC resistance and conductivity of these strands are in compliance with SANS 1411-1:2008.
- PVC Insulation operating temperatures: -5°C - $+70^{\circ}\text{C}$.
- Supplied on wooden drums 300mtrs.

PART NO:	DESCRIPTION	DIAMETER OF INDIVIDUAL WIRES	MAX Ø OF CONDUCTOR	RESISTANCE MAX @ 20 °C MAXIMUM MΩ/M	CONSTRUCTION
ATC000496	4.00mm ² Anti-Theft Strand	0.90mm	± 5.20mm	4.70 mΩ/km	Rope Type
ATC000696	6.00mm ² Anti-Theft Strand	0.90mm	± 6.50mm	3.11 mΩ/km	Rope Type
ATC001096	10.00mm ² Anti-Theft Strand	0.90mm	± 8.50mm	1.84 mΩ/km	Rope Type
ATC001696	16.00mm ² Anti-Theft Strand	0.90mm	± 10.15mm	1.16 mΩ/km	Rope Type
ATC002596	25.00mm ² Anti-Theft Strand	0.90mm	± 11.30mm	0.734 mΩ/km	Rope Type
ATC003596	35.00mm ² Anti-Theft Strand	0.90mm	± 14.00mm	0.529 mΩ/km	Rope Type
ATC005096	50.00mm ² Anti-Theft Strand	0.90mm	± 16.00mm	0.391 mΩ/km	Rope Type
ATC007096	70.00mm ² Anti-Theft Strand	0.90mm	± 17.00mm	0.270 mΩ/km	Rope Type
ATC009596	95.00mm ² Anti-Theft Strand	0.90mm	± 19.00mm	0.195 mΩ/km	Rope Type
ATC012096	120.00mm ² Anti-Theft Strand	0.90mm	± 26.50mm	0.154 mΩ/km	Rope Type
ATC015096	150.00mm ² Anti-Theft Strand	0.90mm	± 27.00mm	0.126 mΩ/km	Rope Type



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KWENA ANTI-THEFT EARTHING CONDUCTORS 40% CONDUCTIVITY

Stopping theft through innovation.



- For the earthing of Mini-Subs, Pylons, and also for bonding of joints on rail tracks for electrical locomotives.
- The DC resistance and conductivity of these strands are in accordance to NRS 102:2014 (as a guide).
- PVC Insulation operating temperatures: -5°C - + 70°C.
- Supplied on wooden drums 300mtrs..

PART NO:	DESCRIPTION	DIAMETER OF INDIVIDUAL WIRES	MAX Ø OF CONDUCTOR	RESISTANCE MAX @ 20 °C MAXIMUM MΩ/M	CONSTRUCTION
ATC0016/40	16.00mm ² Anti-Theft Strand 40% Conductivity	0.90mm	± 9.00mm	1.7 mΩ/km	Rope Type
ATC0035/40	35.00mm ² Anti-Theft Strand 40% Conductivity	0.90mm	± 12.00mm	0.86 mΩ/km	Rope Type
ATC0050/40	50.00mm ² Anti-Theft Strand 40% Conductivity	0.90mm	± 15.00mm	0.75 mΩ/km	Rope Type
ATC0070/40	70.00mm ² Anti-Theft Strand 40% Conductivity	0.90mm	± 16.50mm	0.44 mΩ/km	Rope Type
ATC0095/40	95.00mm ² Anti-Theft Strand 40% Conductivity	0.90mm	± 19.00mm	0.29 mΩ/km	Rope Type

All the sizes are available in PVC Covered, i.e. Black, Clear, Green/Yellow in solid or translucent (which the latter is recommended)



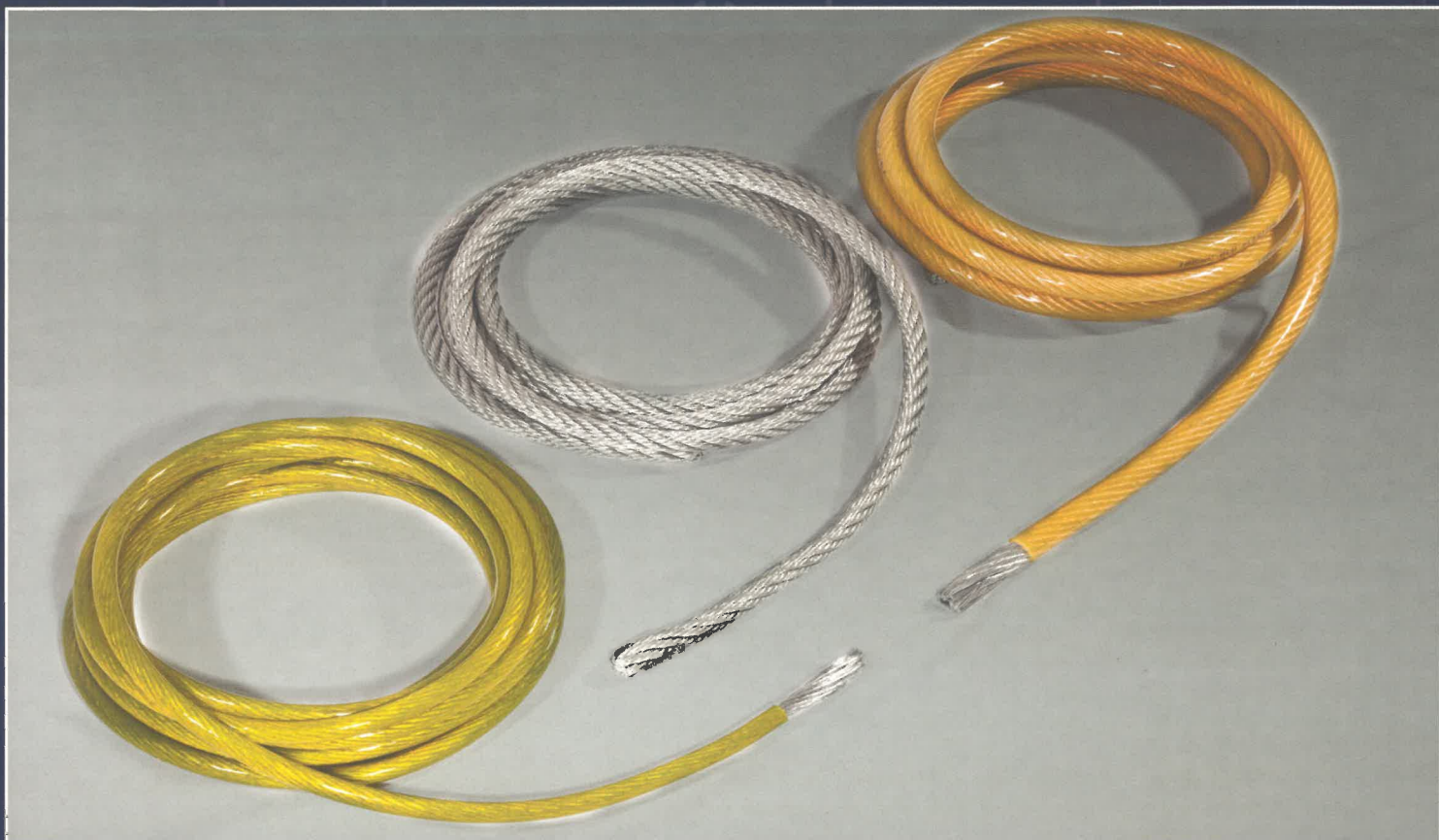
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SPECIAL ALUMINIUM STRANDS

High Quality, tried and tested. Manufactured in South Africa.

- The below Aluminium conductors are typically used in general earthing and earthing kits.
- As guide-line the conductors are manufactured to SANS 1411 - 1: 2008, Table 2 Class 2 stranded conductors
- PVC insulation operating temperatures: - 5 °C to + 70 °C.
- Supplied on wooden drums 300 - 500 mt.
- Available in bare strands or all translucent colours.



NOMINAL CROSS SECTION mm ²	NOMINAL DIAM. OF BARE CONDUCTOR	NOMINAL PVC RADIAL THICKNESS	NOMINAL PVC OVERALL DIAMETER	MAX. RESISTANCE OF CONDUCTOR ohm/Km
16.00	5.7	1.3	8.4	1.910
35.00	8.8	1.4	11.7	0.868
50.00	10.1	1.8	13.8	0.641
60.00	11.2	1.8	14.8	0.542
70.00	12.2	1.8	15.9	0.443
95.00	14.2	2.0	18.2	0.320
120.00	16.0	2.2	20.5	0.253
150.00	18.0	2.5	24.0	0.206
185.00	19.5	2.5	24.6	0.164



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SUBMERSIBLE PUMP CABLES

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

The nitrile PVC sheath has excellent water, oil as well as abrasion resistant properties allowing for use in borehole and submersible pumps, sewerage extraction plant as well as engines rooms.

Most often used by: Electricians, electrical contractors, farmers & DIY enthusiasts.

PROPERTIES

Specifications:	SANS 1574
Voltage Rating:	600-1000 volts
Spark Test Voltage Withstand Test:	6000 volts (rms) on cores
Voltage Withstand Test:	2.5 Kv for 10 mins. after 2 Hrs in Water
Conductor:	SANS 1411 Part 1 Class 5 annealed PCW
Temperature Range:	- 10°C to + 70°C
Insulation:	General purpose PVC colour as below
Sheathing:	Nitrile PVC

Cable Size mm ²	Product Code
1.5 x 3	PUMP150 - 4C - BU
2.5 x 3	PUMP250 - 4C - BU
4.0 x 3	PUMP400 - 4C - BU
6.0 x 3	PUMP600 - 4C - BU
10.0 x 3	PUMP1000 - 4C - BU
16.0 x 3	PUMP1600 - 4C - BU
1.5 x 4	PUMP150 - 4C - BU
2.5 x 4	PUMP250 - 4C - BU
4.0 x 4	PUMP400 - 4C - BU
6.0 x 4	PUMP600 - 4C - BU
10.0 x 4	PUMP1000 - 4C - BU
16.0 x 4	PUMP1600 - 4C - BU

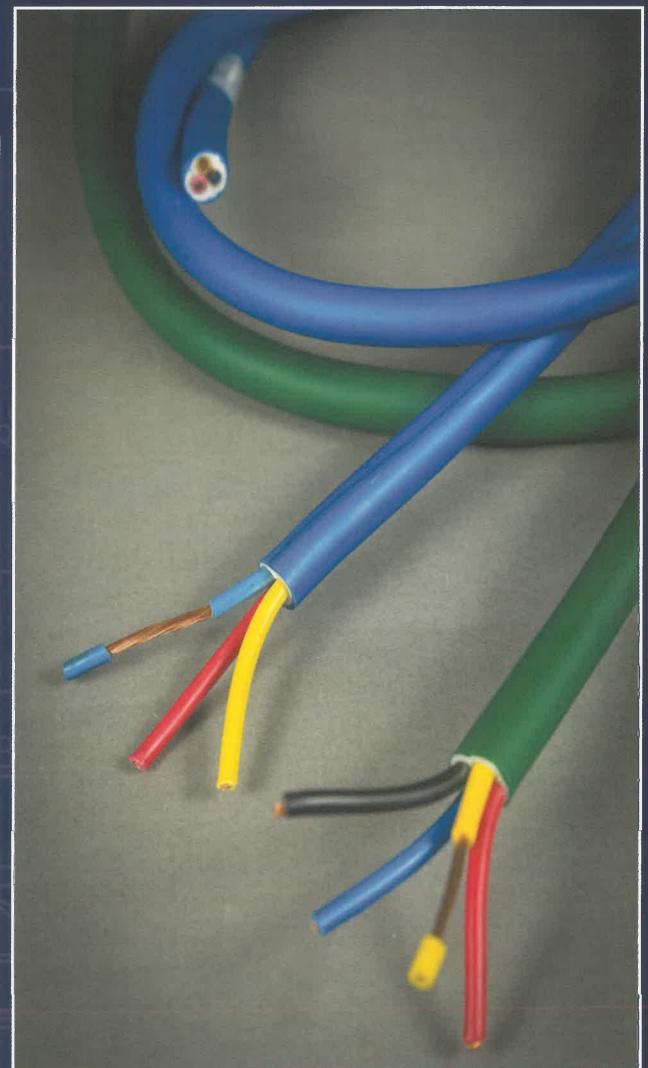
PACKAGING

100m shrink-wrapped coils or on 500m length wooden drums

TECHNICAL DATA

3 Core (Blue)					
Size	Individual wire OD	Approx. Overall Diameter	Current rating	Volt Drop	Mass
mm ²	Nom (mm)	mm	Ampere	Mv/A/m	kg/m
1,50	0,25	10,30	15	30,00	0,146
2,50	0,25	11,50	20	20,00	0,209
4,00	0,30	13,00	30	12,00	0,270
6,00	0,30	17,60	35	8,00	0,465
10,00	0,30	17,50	50	5,00	0,589
16,00	0,30	23,90	65	3,00	0,911

4 Core (Green)					
Size	Individual wire OD	Approx. Overall Diameter	Current rating	Volt Drop	Mass
mm ²	Nom (mm)	mm	Ampere	Mv/A/m	kg/m
1,50	0,25	11,30	15	30,00	0,183
2,50	0,25	12,80	20	20,00	0,251
4,00	0,30	15,02	30	12,00	0,357
6,00	0,30	20,50	35	8,00	0,541
10,00	0,30	22,00	50	5,00	0,775
16,00	0,30	26,50	65	3,00	1,145



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NITRILE TRAILING CABLES

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

For the power supply to any mobile or portable equipment in the most adverse weather conditions, in harsh mechanical and chemical environment such as - Construction sites, open cast mines, factories, dockyards, **railways and engine rooms.**

PROPERTIES

Specifications:	SANS 1574
Voltage Rating:	600-1000 volts
Spark Test Voltage Withstand Test:	6000 volts (rms) on cores
Maximum Current Rating:	Single Phase (See table below)
Conductor:	SANS 1411 Part 1 Class 5 annealed PCW
Temperature Range:	- 10°C to + 70°C
Insulation:	General purpose PVC colour as below
Sheathing:	Orange Nitrile PVC

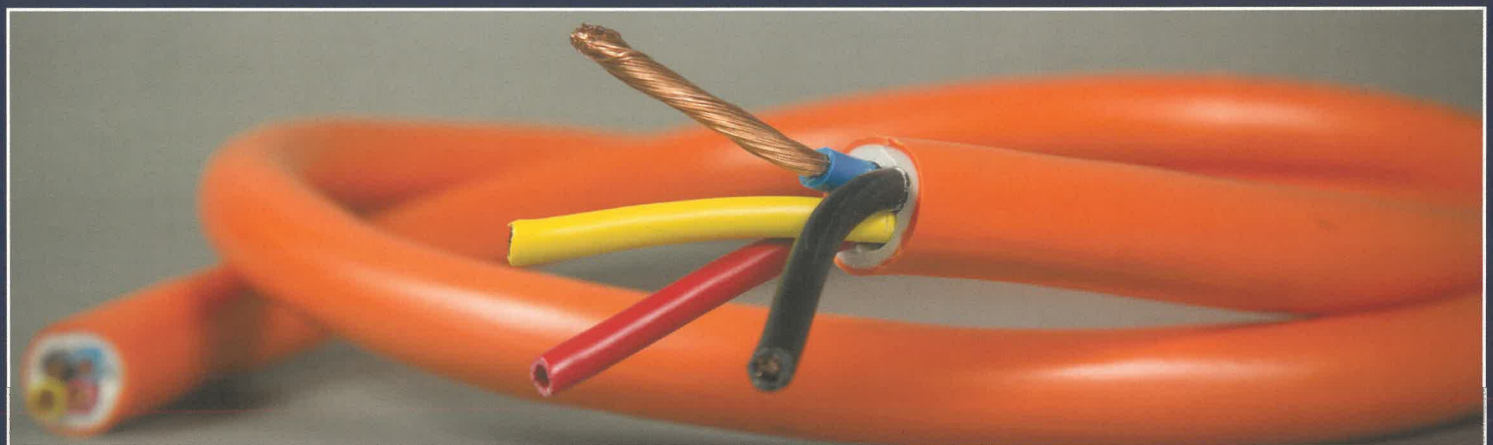
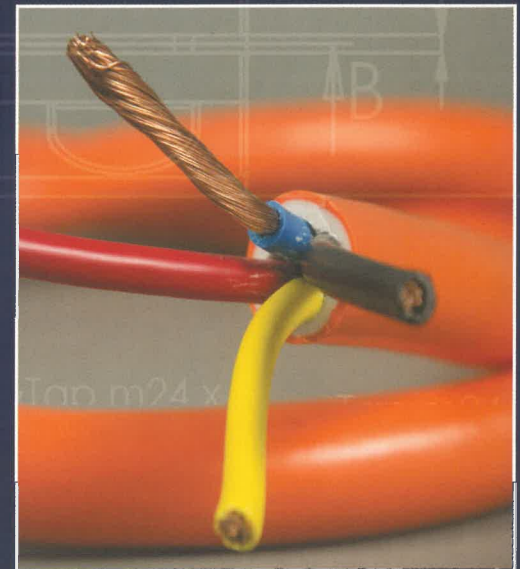
Cable Size mm ²	Product Code
1.5 x 4	TRAIL150 - 4C - OR
2.5 x 4	TRAIL250 - 4C - OR
4.0 x 4	TRAIL400 - 4C - OR
6.0 x 4	TRAIL600 - 4C - OR
10.0 x 4	TRAIL1000 - 4C - OR
16.0 x 4	TRAIL1600 - 4C - OR

PACKAGING

100m shrink-wrapped coils or on 500m length wooden drums

TECHNICAL DATA

4 Core (Orange)						
Size	Strand		Approx Overall Diameter	Current rating	Volt Drop	Mass
	Wire	Resistance				
mm ²	Ø (mm)	Ω/km @ 20°C	mm	Ampere	Mv/A/m	kg/m
1,50	0,25	13,30	10,30	15	25,00	0,146
2,50	0,25	7,98	11,50	20	15,00	0,209
4,00	0,30	4,95	13,00	30	9,50	0,270
6,00	0,30	3,30	17,60	35	6,40	0,465
10,00	0,30	1,91	17,50	80	3,80	0,589
16,00	0,30	1,21	23,90	65	2,40	0,911



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THERMOFLEX CABLES

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

Specification designed for Marine application.
Superior quality insulation material rated 105°C.

PROPERTIES

Voltage Rating: 600-1000 volts
Spark Test Voltage Withstand Test: 6000 volts (rms) on cores
Conductor: SANS 1411 - Part 1 Class 5 annealed Tinned Copper
Temperature Range: 150°C
Insulation: H2010

PACKAGING

Full colours from 0.75 mm² to 10.00 mm² & from 16 to 120mm² all bulk.

TECHNICAL DATA

Size	Individual wire OD	Sheath		Res. Max cond	Res. Max insulation	Current rating (Sustained)	Approximate mass/100m
		Nom wall thickness	Nom overall diameter				
mm ²	Nom (mm)	mm	Ø mm	mΩ/km	mΩ/km		
0,75	0,20	0,60	2,75	26,7	30	30	1,4
1,00	0,20	0,60	2,88	20,0	25	25	1,7
1,50	0,25	0,80	3,20	13,7	24	24	2
2,50	0,25	0,80	3,60	8,2	20	20	3,2
4,00	0,30	1,00	4,50	5,1	19	19	5
6,00	0,30	1,00	5,40	3,4	17	17	7,4
10,00	0,30	1,00	6,20	2,0	14	14	11,3
16,00	0,30	1,30	7,60	1,24	11	11	15,6
25,00	0,30	1,20	9,60	0,795	11	11	27,2
35,00	0,30	1,20	10,20	0,565	9	9	35
50,00	0,30	1,40	13,50	0,393	9	9	50,4
70,00	0,30	1,40	15,60	0,277	8	8	74,2
95,00	0,30	1,40	16,80	0,210	8	8	92,6
120,00	0,30	1,50	18,50	0,164	7	7	112,2

Cable Size	Product Code
mm ²	
0,75	PANT0075
1,00	PANT0100
1,50	PANT0150
2,50	PANT0250
4,00	PANT0400
6,00	PANT0600
10,00	PANT1000
16,00	PANT1600 BL
25,00	PANT2500 BL
35,00	PANT3500 BL
50,00	PANT5000 BL
70,00	PANT7000 BL
95,00	PANT9500 BL
120,00	PANT12000 BL



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RRU - PLAIN CU OR TINNED CU WITH OVERBRAID

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

Remote Radio Unit (RRU) power cable's are generally installed in towers and are controlled by a controller placed inside a closed shelter on the ground near the tower. The connection between the RRU and controller is generally optical and RRU cable is a - 48V DC shielded cable. It feeds - 48V DC power to an RRU . The maximum length that an RRU power cable supports is 100m.

RRU FUNCTIONS

Acts as a transceiver: transmit and receive the user signals to the base station and vice-versa. Provides back to back support and connectivity between user equipment's like power, delay, etc. Control and process the EM signals received from the Antenna via Jumper(Hollow Guide).

CONSTRUCTION

Conductor: Plain/Tinned Copper wire of \varnothing 0.30 wire
 Insulation: General purpose PVC colour as below
 Colour coding: Red & Blue
 Overall screen: \varnothing 0.20 Tin copper wire of \varnothing 0.2 mm
 % coverage: 100%



SHEATH

F2050: F2050 Heavy metal free flexible, fire retardant PVC compound.
 Shore hardness: 91

PROPERTIES

Specifications: SANS 1574
 Voltage ratings: 600/1000Volts
 Spark test voltage]Voltage Withstand Test: 6000 volts (rms) on cores
 Conductor: SANS 1411 Part 1 Class 5 annealed copper
 Temperature range: - 10°C to 70°C
 Insulation: General purpose PVC colour as below
 Sheathing: Black fire retardant PVC
 Maximum operating temp: 70°C
 Capacitance mutual (cores/core): 65.6Pf/m



PACKAGING

100m shrink-wrapped coils or on 500 and 1000m length wooden drums.

TECHINICAL DATA

PRODUCT CODE	Cross section (mm ²)	Conductor construction & wire size	INSULATION		NOM Finish OD of cable	Resistance Max @ 20°C mΩ/m	Approximate Mass/ meter
			NOM Wall Thickness	NOM Overall Diameter			
RRU 0400-2C-BL	2 x 4	51 x 0.30	0,35	3,68	11,40	4,95	0.261 kg
RRU 0600 - 2C - BL	2 x 6	48 x 0.40	1,00	5,20	13,00	3,30	0.218 kg
RRU 1000-2C-BL	2 x 10	80 x 0.40	1,00	6,20	14,00	1,91	0.282 kg



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RRU - ALUMINIUM WITH MYLAR TAPE LAPPING

High Quality, tried and tested. Manufactured in South Africa.

APPLICATION

Remote Radio Unit (RRU) power cable's are generally installed in towers and are controlled by a controller placed inside a closed shelter on the ground near the tower. The connection between the RRU and controller is generally optical and RRU cable is a - 48V DC shielded cable. It feeds - 48V DC power to an RRU . The maximum length that an RRU power cable supports is 100m.

RRU FUNCTIONS

Acts as a transceiver: transmit and receive the user signals to the base station and vice-versa.
Provides back to back support and connectivity between user equipment's like power, delay, etc.
Control and process the EM signals received from the Antenna via Jumper(Hollow Guide).

CONSTRUCTION

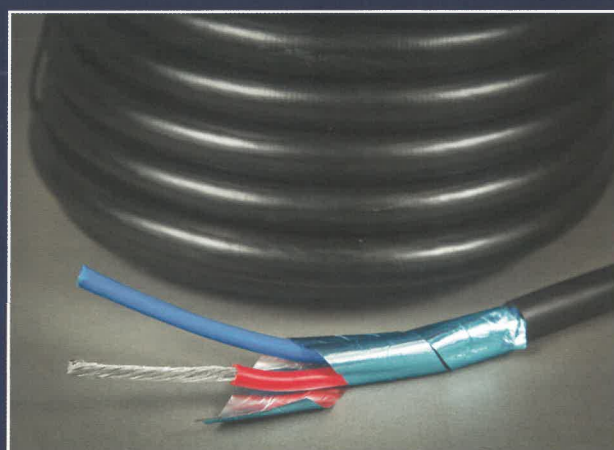
Conductor: Aluminium wire of Ø 0.40 wire
Insulation: General purpose PVC colour as below
Colour coding: Red & Blue
Overall screen: Aluminium Mylar tape 30mm wide.
% coverage: 100%

SHEATH

F2050: F2050 Heavy metal free flexible, fire retardant PVC compound.
Shore hardness: 91

PROPERTIES

Specifications: SANS 1574
Voltage ratings: 600/1000Volts
Spark test voltage]Voltage Withstand Test: 6000 volts (rms) on cores
Conductor: SANS 1411 Part 1 Class 5 annealed copper
Temperature range: - 10°C to 70°C
Insulation: General purpose PVC colour as below
Sheathing: Black fire retardant PVC
Maximum operating temp: 70°C
Capacitance mutual (cores/core): 65.6Pf/m



PACKAGING

100m shrink-wrapped coils or on 500 and 1000m length wooden drums.

TECHNICAL DATA

PRODUCT CODE	Cross section (mm ²)	Conductor construction & wire size	INSULATION		NOM Finish OD of cable	Resistance Max @ 20°C mΩ/m	Approximate Mass/ meter
			NOM Wall Thickness	NOM Overall Diameter			
RRUA 0600 - 2C - BL	2 x 6	48 x 0.40	1,00	5,20	13,00	4,77	0.218 kg
RRUA 1000-2C-BL	2 x 10	80 x 0.40	1,00	6,20	14,00	2,86	0.282kg
RRUA 1600-2C-BL	2 x 16	128 x 0.40	1,00	7,80	17,50	1,91	0.337 kg



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