

# Catalogue

## INDUSTRIAL CABLE



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# STEEL & CABLE TRADER

## BARE COPPER EARTH WIRE



**Description:** Single core stranded, annealed copper conductor  
**Application:** Houses / Buildings / Control Panels / Appliances  
**Specifications:** SANS 1411  
**Packaging:** 5kg Coils  
 25kg Coils  
 500kg Wooden Drums

Technical Information						
Dimensions	+/-2.5%	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )	(M/Kg)		(mm)	(A)	(MV/A/M)	(KG)
1.5	76.336	7 x 0.53	1.6	20	29.00	1.4
2.5	46.729	7 x 0.66	2.0	27	18.00	2.1
4.0	29.070	7 x 0.85	2.6	37	11.00	3.5
6.0	19.417	7 x 1.04	3.1	47	7.30	5.3
10.0	11.534	7 x 1.35	4.1	65	4.40	9.0
16.0	7.252	7 x 1.67	5.0	87	2.80	13.7
25.0	4.583	19 x 1.31	6.4	114	1.75	23.6
35.0	3.297	19 x 1.53	7.7	141	1.25	31.7
50.0	2.435	19 x 1.78	8.9	182	0.95	42.5
70.0	1.68	19 x 2.14	10.7	234	0.66	61.5
95.0	1.21	19 x 2.52	12.6	284	0.50	84.2
120.0	0.962	37 x 2.03	14.2	330	0.41	108.2
150.0	0.779	37 x 2.25	15.8	381	0.34	136.9
185.0	0.623	37 x 2.52	17.6	436	0.29	164.5
240.0	0.474	61 x 2.25	20.2	515	0.25	205.8
300.0	0.378	61 x 2.52	22.7	594	0.22	233.2
400.0	0.296	61 x 2.80	26.0	694	0.20	361.0
500.0	0.23	61 x 3.20	29.2	792	0.185	455.1
630.0	0.177	91 x 2.97	32.7	904	0.175	571.7

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# STEEL & CABLE TRADER

## GENERAL PURPOSE HOUSE WIRE



**Description:** Plain stranded copper conductors, insulated with a general purpose grade PVC.  
**Application:** Houses / Buildings / Control Panels / Appliances  
**Specifications:** Voltage Rating: 600 - 1000V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
 500m Wooden Drums  
**Available Colours:** Black / Blue / Brown / Green-Yellow / Grey / Orange / Pink / Purple / Red / White / Yellow

### Technical Information

Dimensions	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )		(mm)	(A)	(MV/A/M)	(KG)
1.0	7 x 0.43	2.9	15	44.00	1.7
1.5	7 x 0.53	3.2	20	29.00	2.3
2.5	7 x 0.66	3.6	27	18.00	3.3
4.0	7 x 0.85	4.5	37	11.00	5.2
6.0	7 x 1.04	5.1	47	7.30	7.2
10.0	7 x 1.35	6.0	65	4.40	11.2
16.0	7 x 1.67	7.0	87	2.80	17.0
25.0	19 x 1.31	8.6	114	1.75	26.6
35.0	19 x 1.53	10.0	141	1.25	35.7
50.0	19 x 1.78	11.5	182	0.95	48.3
70.0	19 x 2.14	13.3	234	0.66	68.0
95.0	19 x 2.52	15.5	284	0.50	94.0
120.0	37 x 2.03	17.1	330	0.41	115.4
150.0	37 x 2.25	19.0	381	0.34	142.6
185.0	37 x 2.52	21.2	436	0.29	179.0
240.0	61 x 2.25	24.1	515	0.25	233.5
300.0	61 x 2.52	27.0	594	0.22	295.0
400.0	61 x 2.80	30.3	694	0.20	375.0
500.0	61 x 3.20	34.1	792	0.185	479.0
630.0	91 x 2.97	38.0	904	0.175	612.0

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# STEEL & CABLE TRADER

## SURFIX CABLE



- Description:** Copper Conductors to SANS 1411, PVC Insulated to SANS 1411, laid up with a bare tinned copper earth wire in contact with a longitudinal aluminium / polyethylene laminate, UV stable PVC sheathed to SANS 1411
- Installation Application:** Surface Wiring / Under-plaster wiring / Wiring in hollow walls / Wiring in roof spaces
- Properties:** Voltage Rating: 300 - 500V  
Temperature Range: -10°C - 70°C
- Packaging:** 100m Coils (Shrink Wrapped)  
500m & 1000m Wooden Drums
- Core Identification:** **2 Core** - Red & Black  
**3 Core** - Red, Yellow & Blue  
**4 Core** - Red, Yellow, Blue & Black
- Available Colours:** Black / White

Technical Information								
Cable Size		Conductor Resistance (dc @ 20 No.x Diameter)		Current Rating	Volt Drop	1 Sec Short Circuit Rating	Approx. Overall Diameter	Approx Cable Weight Per 100m Coil
Phase	Earth	Phase	Earth					
(mm <sup>2</sup> )		(Ω/km)		(A)	(mV/A/m)	(kA)	(mm)	(KG/100m)
<b>2 Core</b>								
1.5	1	12.1	18.2	17	29	0.14	7.8	10.6
2.5	1.5	7.41	12.2	23	18	0.24	8.8	14.4
4.0	1.5	4.61	12.2	30	11	0.38	10.1	20.8
6.0	2.5	3.08	7.56	38	7.3	0.58	11.3	25.7
<b>3 Core</b>								
1.5	1	12.1	18.2	15	25	0.14	8.0	10.9
2.5	1.5	7.41	12.2	20	15	0.24	9.3	15.7
4	1.5	4.61	12.2	27	9.5	0.38	10.8	21.0
6	2.5	3.08	7.56	34	6.4	0.58	12.0	28.7
<b>4 Core</b>								
1.5	1	12.1	18.2	15	25	0.14	8.7	13.3
2.5	1.5	7.41	12.2	20	15	0.24	10.2	19.3
4	1.5	4.61	12.2	27	9.5	0.38	11.8	26.5
6	2.5	3.08	7.56	34	6.4	0.58	12.8	33.5

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# STEEL & CABLE TRADER

## Flat Twin And Earth Cable



**Description:**

Copper Conductors to SANS 1411, PVC Insulated to SANS 1411, laid up with a bare copper earth-continuity-conductor between them, UV stable PVC sheathed to SANS 1411  
Complies with SANS 10142/2001 "Code of Practices for the Wiring of Premises"  
-Surface Wiring – Under-Plaster Wiring – Roof Access Wiring – Wiring in Hollow Walls

**Installation Application:**

NB: The Cables shall not be buried direct in concrete or in screed. Joints in the wiring shall be in boxes only.

**Properties:**

Specifications:

SANS 1507-2

Temperature Range:

-10° to 70°

Voltage Rating:

300/500V

Sheath Identification:

White and Black

Core Identification:

**2 Core** – Red and Black

**3 Core** – Red, Yellow, Blue

Packaging:

100m shrink-wrapped coils

### Technical Information

Cable Size		Conductor Resistance (dc @ 20 No.x Diameter)		Current Rating	Volt Drop	1 Sec Short Circuit Rating	Approx. Overall Diameter	Approx Cable Weight Per 100m Coil
Phase	Earth							
(mm <sup>2</sup> )	(mm <sup>2</sup> )	(Ω/km)	(Ω/km)	(A)	(MV/A/M)	(kA)	(mm)	(KG/100m)
<b>2 Core</b>								
1.5	1	12.1	18.1	17	29	0.14	8.7 x 4.7	8.7
2.5	1.5	7.4	12.1	23	18	0.24	10.3 x 5.5	12.8
4	1.5	4.61	12.1	30	11	0.38	11.9 x 6.4	17.5
6	2.5	3.08	7.41	38	7.3	0.58	13.4 x 7.0	23.3
10	4	1.83	4.61	52	4.4	0.96	16.5 x 8.3	36.1
<b>3 Core</b>								
1	1	18.2	18.2	12	38	0.11	4.4 x 10.4	8.9
1.5	1	12.1	18.2	15	25	0.14	4.8 x 10.5	9.9
2.5	1.5	7.4	12.2	20	15	0.24	5.5 x 12.3	14.1

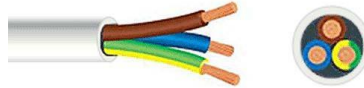
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# STEEL & CABLE TRADER

## Cabtyre Cable



### Description:

High conductivity bunched plain flexible copper conductors to SANS 1411. Insulated and colour coded with general purpose flexible grade PVC to SANS 1411. Cores are twisted together and sheathed with a flexible grade PVC.

### Application:

For supplying power to all types of electrical, domestic and industrial appliances and equipment such as: - Power Tools - Electric Lawnmowers - Kitchen Appliances - Extension Leads - Multi Plug Extensions - Small Industrial Machinery

### Properties:

Specifications:

SANS 1574

Temperature Range:

-10° to 70°

Voltage Rating:

Light Duty (LD) 300/300V and Normal Duty (ND) 300/500V

Sheath Identification:

White, Black and Grey

Core Identification:

**2 Core** - Blue and Brown,

**3 Core** - Blue, Brown and Yellow/Green,

**4 Core** - Blue, Brown, Black and Yellow/Green,

**5 Core** - Blue, Black, Brown, Yellow/Green, Violet,

**7 Core** - Blue, Brown, Black, Yellow/Green, Violet, Pink, Orange

Packaging:

100m shrink-wrapped coils/500m and 1000m lengths available on request

### Technical Information

Cable Size (mm <sup>2</sup> )	Conductor Strands No.x Diameter	Approx. Overall Diameter					Current Rating (A)	Volt Drop		Approx. Cable Weight Mass Per 100m Coil				
		(mm)	(mm)	(mm)	(mm)	(mm)		(MV/A/M)	(MV/A/M)	(kg)	(kg)	(kg)	(kg)	(kg)
		2C	3C	4C	5C	7C		2C	3,4,5 & 7C	2C	3C	4C	5C	7C
<b>Light Duty</b>														
0.5	16 x 0.20	5.2	5.6	6.1	6.6	-	3	93	80	3.5	4.3	5.1	6.7	-
0.75	24 x 0.20	5.7	5.9	6.6	-	-	6	62	54	4.9	5.6	6.7	-	-
<b>Heavy Duty</b>														
0.75	24 x 0.20	6.1	6.5	7.0	7.9	9.3	6	62	54	5.8	6.8	8.0	9.9	12.2
1.0	30 x 0.20	6.7	7.11	7.76	8.6	10.9	10	46	40	6.7	7.6	9.7	11.6	14.8
1.5	30 x 0.25	7.8	8.50	9.50	10.1	13.2	16	32	27	8.9	10.6	13.4	16.2	20.6
2.5	50 x 0.25	9.5	10.4	11.3	12.2	14.1	20	19	16	13.4	16.0	20.1	24.2	31.5
4.0	56 x 0.30	10.3	11.7	12.9	14.1	-	25	12	10	17.6	22.2	27.5	33.9	-

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# STEEL & CABLE TRADER

## TWIN ILLUMINATION CABLE



**Description:** Stranded plain copper conductors, PVC insulated laid flat with a PVC outer Sheath  
**Application:** For the wiring of outdoor lighting using quickfit lampholders  
**Specifications:** Voltage Rating: 33/500V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
**Sheath Colour:** Black & White  
**Core Colours:** 2 Core – Black & Red

### Technical Information

Dimensions	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )		(mm)	(A)	(MV/A/M)	(KG)
2.5	7 x 0.67	5.6 x 10.2	25	15	11.5

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# STEEL & CABLE TRADER

## SINGLE CORE FLEX



**Description:** Plain annealed flexible copper conductor, insulated with a flexible grade PVC.  
**Application:** For the wiring of Control Panels, Light Fittings, Appliances  
**Specifications:** Voltage Rating: 600/1000V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
 1000m Wooden Drums  
**Available Colours:** Black / Blue / Brown / Green-Yellow / Grey / Orange / Pink / Purple / Red / White / Yellow

Technical Information					
Dimensions	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )		(mm)	(A)	(MV/A/M)	(KG)
0.5	15w x 0.20	2.48	3	93.00	0.99
0.75	22w x 0.20	2.68	6	62	1.07
1.0	29w x 0.20	2.86	10	44.00	1.53
1.5	28w x 0.25	3.12	16	29.00	2.00
2.5	46w x 0.25	3.54	27	18.00	2.94
4.0	52w x 0.30	4.48	37	11.00	4.72
6.0	84w x 0.30	5.20	47	7.30	7.30
10.0	140w x 0.30	6.12	65	4.40	11.34
16.0	200w x 0.30	9.50	87	2.80	22.0
25.0	312w x 0.30	12.50	114	1.75	30.0
35.0	440w x 0.30	12.90	141	1.25	40.0

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# STEEL & CABLE TRADER

## SOLID PANEL WIRE



**Description:** High conductivity, solid copper conductor to Sans. PVC Insulated 105°C  
**Application:** For the wiring of Ballasts, Fluorescent Lights  
**Specifications:** Voltage Rating: 300/500V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
**Available Colours:** Black / Blue / Brown / Green / Grey / Orange / Pink / Purple / Red / White and Yellow

Technical Information					
Dimensions	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )		(mm)	(A)	(MV/A/M)	(KG)
0.5	1 x 0.8	2.00	10	93	0.83
1.0	1 x 1.2	2.31	15	44	1.30

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# STEEL & CABLE TRADER

## FLEX POWER



**Description:** Plain annealed flexible copper conductor, flexible PVC bedded, with a Nitrile PVC sheath  
**Application:** For the wiring of Control panels and power installations where a flexible conductor is required.  
**Specifications:** Voltage Rating: 600 - 1000V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
 500m Wooden Drums  
**Available Colours:** Black / Red / Green-Yellow / Blue

Technical Information					
Dimensions	Nominal Stranding No.x Diameter	Approx Overall Diameter	Current Rating	Volt Drop	Approx Cable Weight Per 100m Coil
(mm <sup>2</sup> )		(mm)	(A)	(MV/A/M)	(KG)
16.0	240 x 0.3	10.3	80	2.420	21.2
25.0	329w x 0.3	11.9	114	1.560	29.4
35.0	455w x 0.3	13.6	141	1.108	38.7
50.0	670w x 0.3	15.7	182	0.772	55.7
70.0	904w x 0.3	17.0	234	0.544	73.6
95.0	1190w x 0.3	19.1	284	0.412	95.3
120.0	1530w x 0.3	22.9	330	0.161	131.0
150.0	1917 x 0.3	25.8	376	0.258	155.3

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# STEEL & CABLE TRADER

## RIPCORD



**Description:** Flexible plain copper conductors, PVC insulated  
**Application:** For the wiring of Audio Equipment, Intercoms, Alarm Systems  
**Specifications:** Voltage Rating: 80V  
 Temperature Range: -10°C - 70°C  
**Packaging:** 100m Coils (Shrink Wrapped)  
**Available Colours:** Black / White / Brown / Transparent

### Technical Information

Dimensions (mm <sup>2</sup> )	Nominal Stranding No.x Diameter	Approx Overall Diameter (mm)	Current Rating (A)	Volt Drop (MV/A/M)	Approx Cable Weight Per 100m Coil (KG)
0.5	16 x 0.20	2.4 x 4.8	5	93	2.2
0.75	24 x 0.20	2.6 x 5.2	6	62	2.8

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