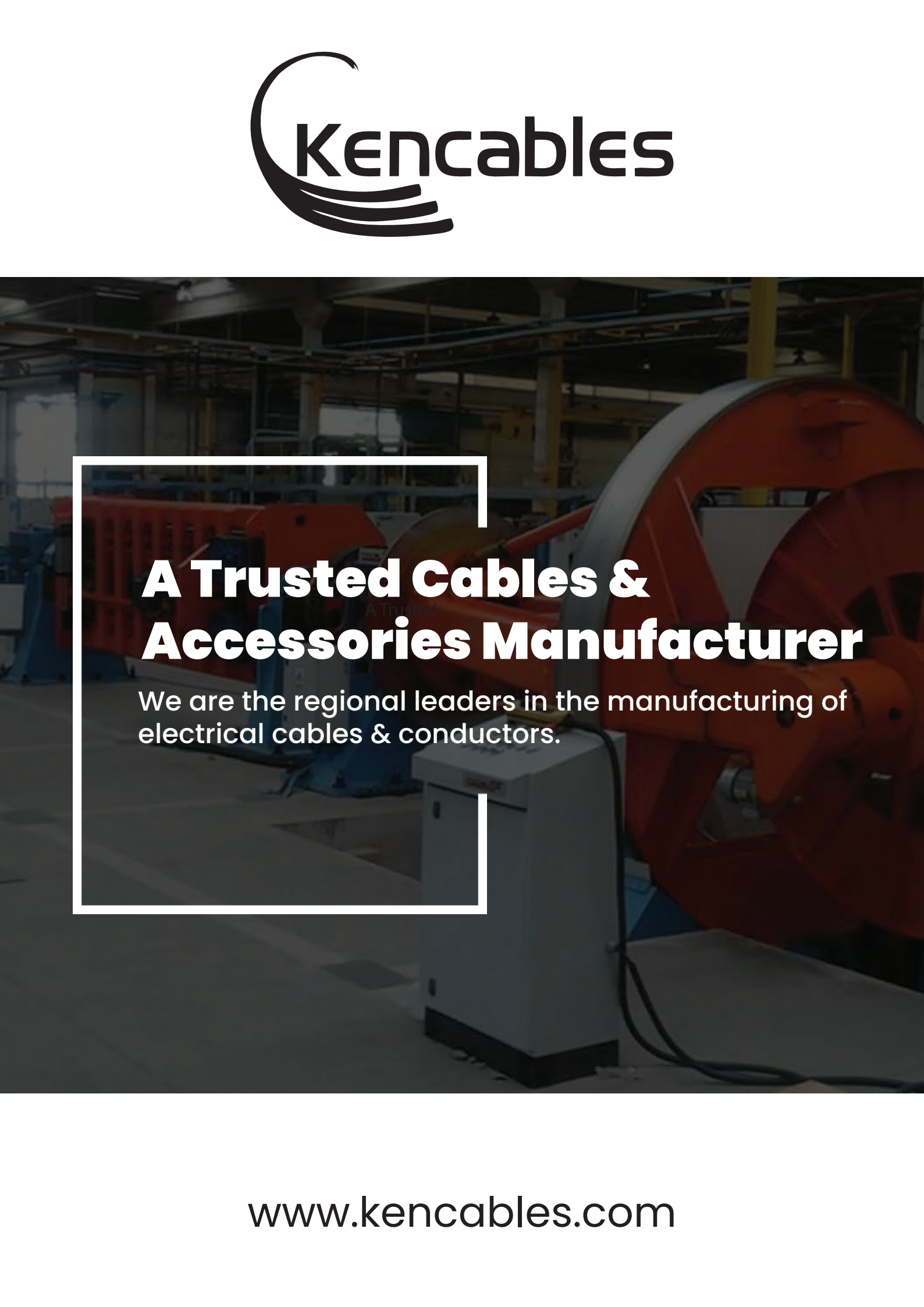
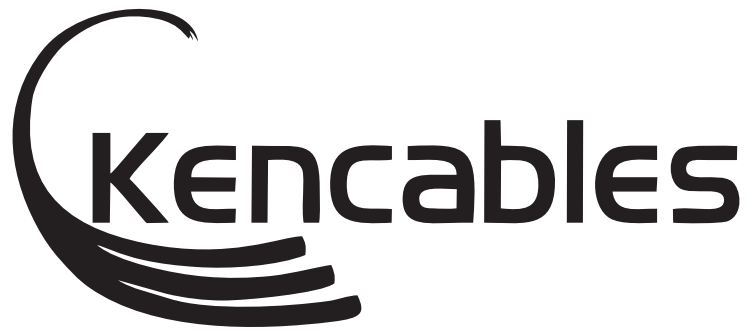


The background of the slide is a dark, industrial setting, likely a cable manufacturing plant. It shows large machinery, including a prominent red wheel-like structure on the right, and various cables and equipment in the background. The lighting is dim, with some highlights on the machinery.

A Trusted Cables & Accessories Manufacturer

We are the regional leaders in the manufacturing of electrical cables & conductors.

www.kencables.com



About Us

Kencables Limited has emerged as the most trusted electrical cable manufacturer and the choice of leading electrical consultants, engineers, and architects in the country and the region. At Kencables Limited quality is our priority combined with superior customer service and affordability.

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PVC Insulated Non Sheathed Single Core Cables

Standard: BS 6004, KS 453.

Voltage rating: 450/750V (1mm₂ 300/500V)

When installed in an earthed metal enclosure, cables are suitable for voltages up to 1000V a.c. or up to 750V to earth d.c.

Application: Industrial wiring.

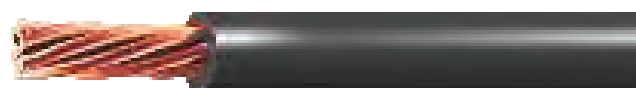
These cables are intended for drawing into trunking and conduit. They may also be used inside fixed, protected installations such as lighting fittings, appliances, switchgear and control gear

Construction: Single core cable. Solid (Class 1) or stranded plain copper conductor (Class 2), PVC insulated only.

Insulation colours: Black, Red and Green/Yellow.

Other colours available on order.

Maximum conductor temperature: 70°C.



Copper Conductors

Nominal cross sectional area	Insulation thickness	Number/ Diameter of strands	Max. Conductor resistance (Ω/Km)		Current rating in air Amps (A)		Approx. Overall diameter	Approx. Weight
mm ²	mm	No/mm	DC at 20°C	AC at 70°C	In air	In ducts	mm	Kg/Km

a-300/500V cables

1.0	0.6	1/1.13	18.1	22.73	13	10	2.5	15
-----	-----	--------	------	-------	----	----	-----	----

b-450/750V cables

1.5	0.7	1/1.38	12.100	14.600	17	13	2.8	20
1.5	.07	7/0.53	12.100	14.600	17	13	3	21
2.5	0.8	1/1.78	7.4100	8.890	24	19	3.4	31
2.5	0.8	7/0.67	7.4100	8.890	24	19	3.6	33
4	0.8	7/0.85	4.6100	5.510	32	23	3.9	47
4	0.8	1/2.25	4.6100	5.510	32	23	4.2	50
6	0.8	7/1.04	3.0800	3.680	40	29	4.4	68
6	0.8	1/2.76	3.0800	3.680	40	29	4.7	71
10	1.0	7/1.35	1.8300	2.170	57	41	6.1	117
16	1.0	7/1.70	1.1500	1.370	76	54	7.1	177
25	1.2	7/2.14	0.7270	0.860	103	70	8.8	278
35	1.2	7/2.52	0.5240	0.630	128	87	9.9	371
50	1.4	19/1.78	0.3870	0.460	156	106	11.8	514
70	1.4	19/2.14	.02680	0.320	200	131	13.5	711
95	1.6	19/2.52	0.1930	0.230	251	166	15.7	967
120	1.6	37/2.03	0.1530	0.190	293	190	17.4	1240
150	1.8	37/2.25	0.1240	0.150	335	219	19.4	1500
185	2.0	37/2.52	0.0991	0.120	390	250	21.5	1852
240	2.2	61/2.25	0.754	0.092	471	300	24.7	2457
300	2.4	61/2.52	0.0601	0.075	540	340	27.2	2977

PVC Insulated and PVC Sheathed Flat Wiring Cables

Standard: BS 6004, KS453.

Voltage rating: 300/500V.

Application: Domestic and light industrial wiring.

Suitable; Clipped to surface, on trays or in free air where there is little risk of mechanical damage. Suitable for laying into trunking or conduit etc. when mechanical protection is required. May be embedded in plaster or laid in walls.

Construction: Two core flat cables. Solid or stranded plain copper conductors, PVC insulated, laid parallel and PVC sheathed.

Core colours

Red and Black.

Sheath colour: Grey or White

Maximum conductor temperature: 70°C



Table 3

Nominal cross sectional area	insulation thickness	sheath thickness	Number/Diameter of wire		Max. Conductor resistance (Ω/Km)		Current rating Amps (A)		Dimension	Approx. Weight
			CORE 1	CORE 2	DC at 20°C	AC at 70 °C	In air	In ducts	mm	Kg/Km
mm ²	mm	mm								
1.0	0.6	0.8	1/1.13	1/1.13	18.1	22.73	13	10	6.7 X 4.4	54
1.5	0.7	0.8	1/1.38	1/1.38	12.1	14.6	17	13	7.2 X 4.6	67
2.5	0.8	0.8	7/0.67	7/0.67	7.41	8.89	24	19	8.6 X 5.4	99
4	0.8	0.9	7/0.85	7/0.85	4.61	5.51	32	23	10.7 X 6.5	150
6	0.8	0.9	7/1.04	7/1.04	3.08	3.68	40	29	12.7 X 7.3	205
10	1.0	0.9	7/1.35	7/1.35	1.83	2.17	57	41	14.9 X 8.8	325
16	1.0	1.0	7/1.7	7/1.7	1.15	1.37	76	54	17.2 X 10.1	465

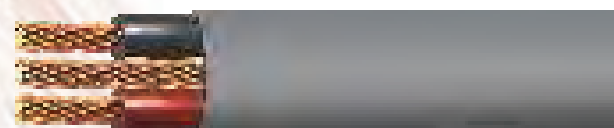
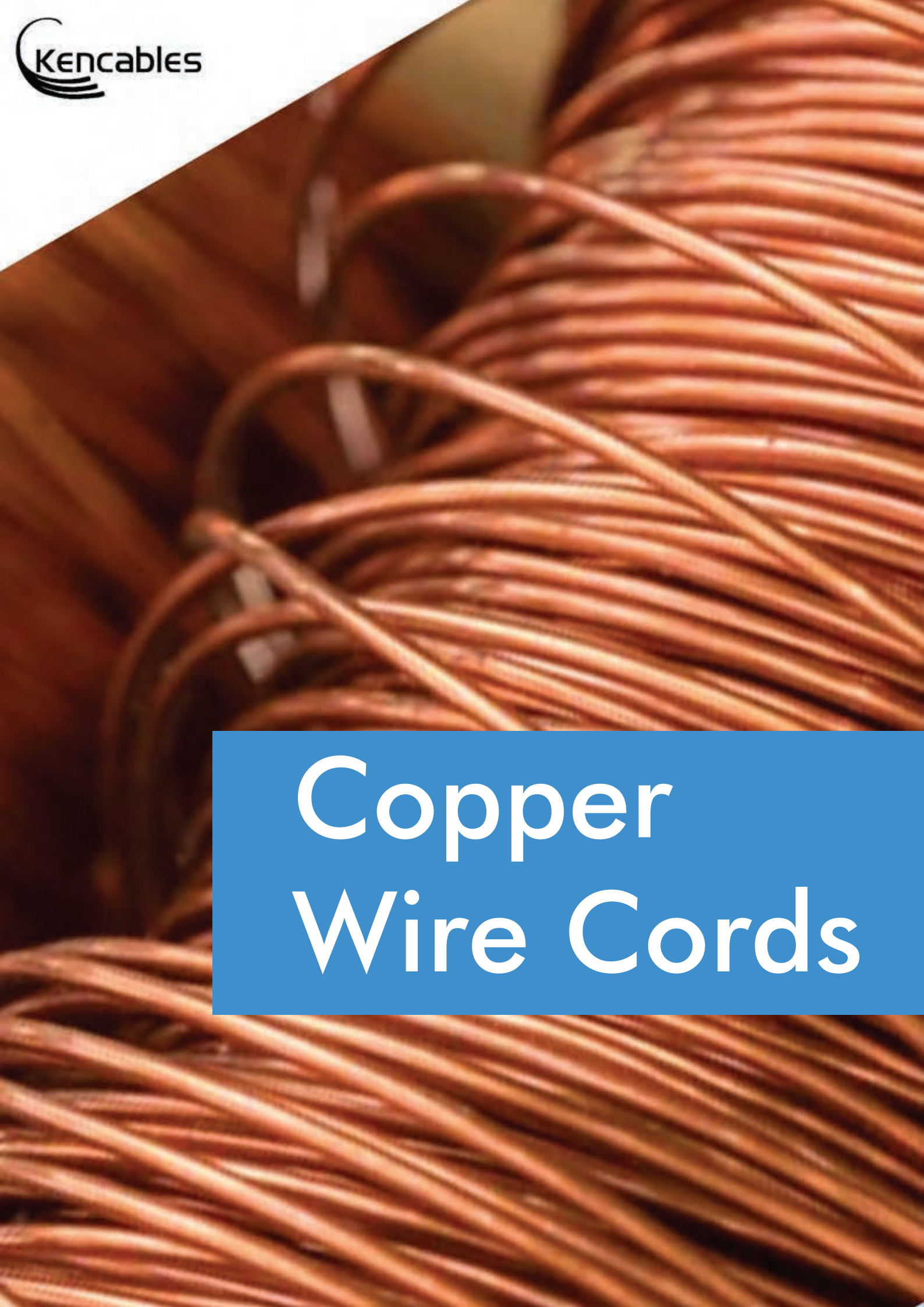


Table 2

Nominal cross sectional area	insulation thickness	sheath thickness	Number/Diameter of wire			Size of Earth Continuity Conductor	Max. Conductor resistance (Ω/Km)		Current rating Amps (A)		Dimension	Approx. Weight
			CORE 1	ECC	CORE 2		DC at 20°C	AC at 70 °C	In air	In ducts	mm	Kg/Km
mm ²	mm	mm				mm ²						
1.0	0.6	0.8	1/1.13	1/1.13	1/1.13	1.0	18.1	22.73	13	10	7.8 X 4.4	69
1.5	0.7	0.9	1/1.38	1/1.13	1/1.38	1.0	12.1	14.6	17	13	8.3 X 4.6	82
2.5	0.8	1.0	7/0.67	7/0.67	7/0.67	2.5	7.41	8.89	24	19	9.7 X 5.4	120
4.0	0.8	1.0	7/0.85	7/0.67	7/0.85	2.5	4.61	5.51	32	23	12.0 X 6.5	175
6.0	0.8	1.1	7/1.04	7/0.67	7/1.04	2.5	3.08	3.68	40	29	13.8 X 7.3	240
10.0	1.0	1.2	7/1.35	7/0.85	7/1.35	4.0	1.83	2.17	57	41	17.4 X 8.8	300
16.0	1.0	1.3	7/1.70	7/1.04	7/1.70	6.0	1.15	1.37	76	54	2.3 X 10.1	560

A close-up photograph of a large coil of copper wire. The wires are tightly packed and curve in various directions, creating a complex, textured pattern. The color is a warm, reddish-brown copper. A blue rectangular box is overlaid on the lower right portion of the image, containing the title text.

Copper Wire Cords

PVC Insulated and PVC Sheathed Flexible Cables.

Standard: BS 6500, KS 04-192.

Voltage rating: 300/500V.

Application: General purpose indoors or outdoors in dry or damp situations. Suitable for portable tools, washing machines, vacuum cleaners, lawn mowers refrigerators. If frequent flexing or torsion is likely, the circular cord should be used. Should not be used where sheath can come in to contact with hot surfaces. Not suitable below 0°C.

Construction:

318-Y; Two, Three, Four or Five core circular flexible cord. Flexible plain (Class 5) copper conductors, PVC insulated, cores laid up and PVC sheathed.

Core colours:

Two core: Blue and Brown

Three core: Green/Yellow, Blue and Brown

Four core: Green/Yellow, Blue, Black and Brown

Five core: Green/Yellow, Blue, Brown, Black and Grey

Sheath colour: Black or White.

Other colours available to order.

Maximum conductor temperature: 70°C

Single Flexible Cables

Table 4

Nominal conductor Area	Nominal Conductor Stranding	Insulation Thickness	Max. O/D	Approx. Cable Weight
mm ²	mm	mm	mm	kg/km
1.5	30/0.25	0.7	3.4	21
2.5	50/0.25	0.8	4.1	33
4.0	56/0.3	0.8	4.8	50
6.0	84/0.3	0.8	5.3	70
10	80/0.4	1.0	6.8	117
16	126/0.4	1.0	8.1	175
25	196/0.4	1.2	10.2	290
35	276/0.4	1.2	11.7	398
50	396/0.4	1.4	13.9	565
70	360/0.5	1.4	16.0	769
95	475/0.5	1.6	18.2	1010
120	608/0.5	1.6	20.2	1260
150	765/0.5	1.8	22.5	1570
185	925/0.5	2.0	24.9	1900
240	1221/0.5	2.2	28.4	2500

Flexible Twin Flat Cables

Table 5

Nominal conductor Area	Nominal Conductor Stranding	Insulation Thickness	Max. O/D	Approx. Cable Weight
mm ²	mm	mm	mm	kg/km
0.5	16/0.2	0.6	2.5	10
0.75	24/0.2	0.6	2.7	13
1.0	32/0.2	0.6	2.8	16

Three Core type 3183Y

3183Y

0.75	24/0.2	0.6	6.0	7.6	74
1.0	32/0.2	0.6	6.3	8.0	86
1.25	40/0.2	0.7	6.9	8.7	104
1.5	30/0.25	0.7	7.4	9.4	120
2.5	50/0.25	0.8	9.2	11.4	180
4.0	56/0.3	0.8	11.0	13.0	250

Four Core type 3184Y

3184Y

0.75	24/0.2	0.6	6.6	8.3	78
1.0	32/0.2	0.6	7.1	9.0	110
1.5	30/0.25	0.7	8.4	10.5	150
2.5	50/0.25	0.8	10.1	12.5	220
4.0	56/0.3	0.8	12.0	14.0	305

Five Core type 3185 Y

3185Y

0.75	24/0.2	0.6	7.4	9.3	98
1.0	32/0.2	0.6	7.8	9.8	118
1.5	30/0.25	0.7	9.3	11.6	180
2.5	50/0.2	0.8	11.2	13.9	265
4.0	56/0.3	0.8	13.5	15.5	380

Copper Wire Conductors

Armoured Cables

Standard: BS 6346, KS 04-194.

Voltage rating: 600/1000V.

Application: Electricity supply and industrial wiring for remote control and telemetry circuits etc. Suitable; laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

Construction: Multi-core cables. Stranded or solid plain copper conductors, PVC insulated, cores laid up, extruded PVC bedding, galvanized steel wire armoured and PVC sheathed.

Core colours:

Single core: Red or Black

Two core: Red and Black

Three core: Red, Yellow and Blue

Four core: Red, Yellow, Blue and Black

Five core: Red, Yellow, Blue, Black, Green/Yellow

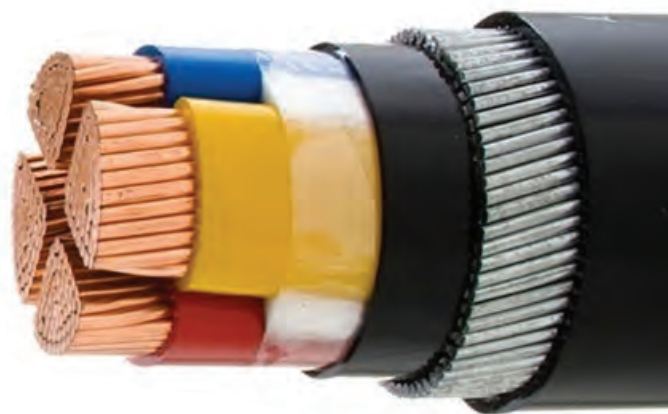
Sheath colour: Black.

Other colours available to order. Maximum conductor temperature: 70°C

Single Core Cables - 600/1000V

DIMENSIONS & WEIGHTS CU/PVC/AWA/PVC B.S. 6346, KS 04 - 194

AL/PVC/AWA/PVC B.S. 6346, KS 04 - 194



Single Core Cables - 600/1000V

DIMENSIONS & WEIGHTS

CU/PVC/AWA/PVC B.S. 6346, KS 04 - 194

AL/PVC/AWA/PVC B.S. 6346, KS 04 - 194

Table 8

Nominal Area of conductor	Thickness of insulation	Thickness of Extruded Bedding	Diameter of Aluminum Armour wire	Thickness of Outer Sheath	Approx. Cable Weight	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	kg/km	kg/km
50	1.4	0.8	1.25	1.5	19.1	820	530
70	1.4	0.8	1.25	1.6	21.1	1070	650
95	1.6	0.8	1.25	1.6	23.4	1390	810
120	1.6	1.0	1.6	1.7	26.3	1600	960
150	1.8	1.0	1.6	1.7	28.3	1900	1115
185	2.0	1.0	1.6	1.8	30.8	2450	1315
240	2.2	1.0	1.6	1.9	34.1	3100	1610
300	2.4	1.0	1.6	1.9	37.0	3760	1890
400	2.6	1.2	2.0	2.1	42.0	4850	2455
500	2.8	1.2	2.0	2.1	45.6	5930	2945
630	2.8	1.2	2.0	2.2	49.7	7390	3495
800	2.8	1.4	2.5	2.4	55.8	9400	4210
1000	3.0	1.4	2.5	2.5	61.0	11430	4870

2 Core Cables-600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/SWA/PVC to B.S. 6346, KS 04 - 194
AL/PVC/SWA/PVC to B.S. 6346, KS 04 - 194
COPPER CONDUCTOR, PVC INSULATED, STEEL-WIRE ARMoured, PVC SHEATHED

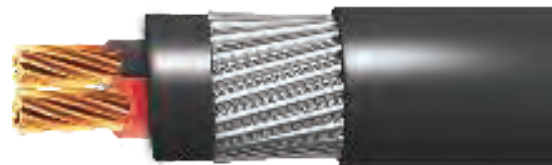


Table 9

Nominal Area of Conductor	Thickness of Insulation	Thickness of Extruded Bedding	Diameter of Armour Wire	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	kg/km	kg/km
1.5#	0.6	0.8	0.9	1.4	12.3	270	-
2.5#	0.7	0.8	0.9	1.4	13.6	350	-
4#	0.8	0.8	0.9	1.4	15.1	470	-
6#	0.8	0.8	0.9	1.5	16.5	580	-
10#	1.0	0.8	1.25	1.6	20.1	840	-
16#	1.0	0.8	1.25	1.6	21.9	990	-
25	1.2	1.0	1.6	1.7	23.0	1480	1170
35	1.2	1.0	1.6	1.8	24.8	1770	1340
50	1.4	1.0	1.6	1.9	27.8	1900	1450
70	1.4	1.0	1.6	1.9	30.4	2430	1560
95	1.6	1.2	2.0	2.1	35.5	2970	2200
120	1.6	1.2	2.0	2.2	38.0	3970	2480
150	1.8	1.2	2.0	2.3	41.3	4700	2480
185	2.0	1.4	2.5	2.4	46.4	5990	3700
240	2.2	1.4	2.5	2.5	51.2	7420	4550
300	2.4	1.6	2.5	2.7	56.4	8950	5230
400	2.6	1.6	2.5	2.9	61.9	11030	6070



3 Core Cables -600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/SWA/PVC B.S. 6346, KS 04 - 194
AL/PVC/SWA/PVC B.S. 6346, KS 04 - 194
COPPER CONDUCTOR, PVC INSULATED, STEEL WIRE ARMoured, PVC SHEATHED

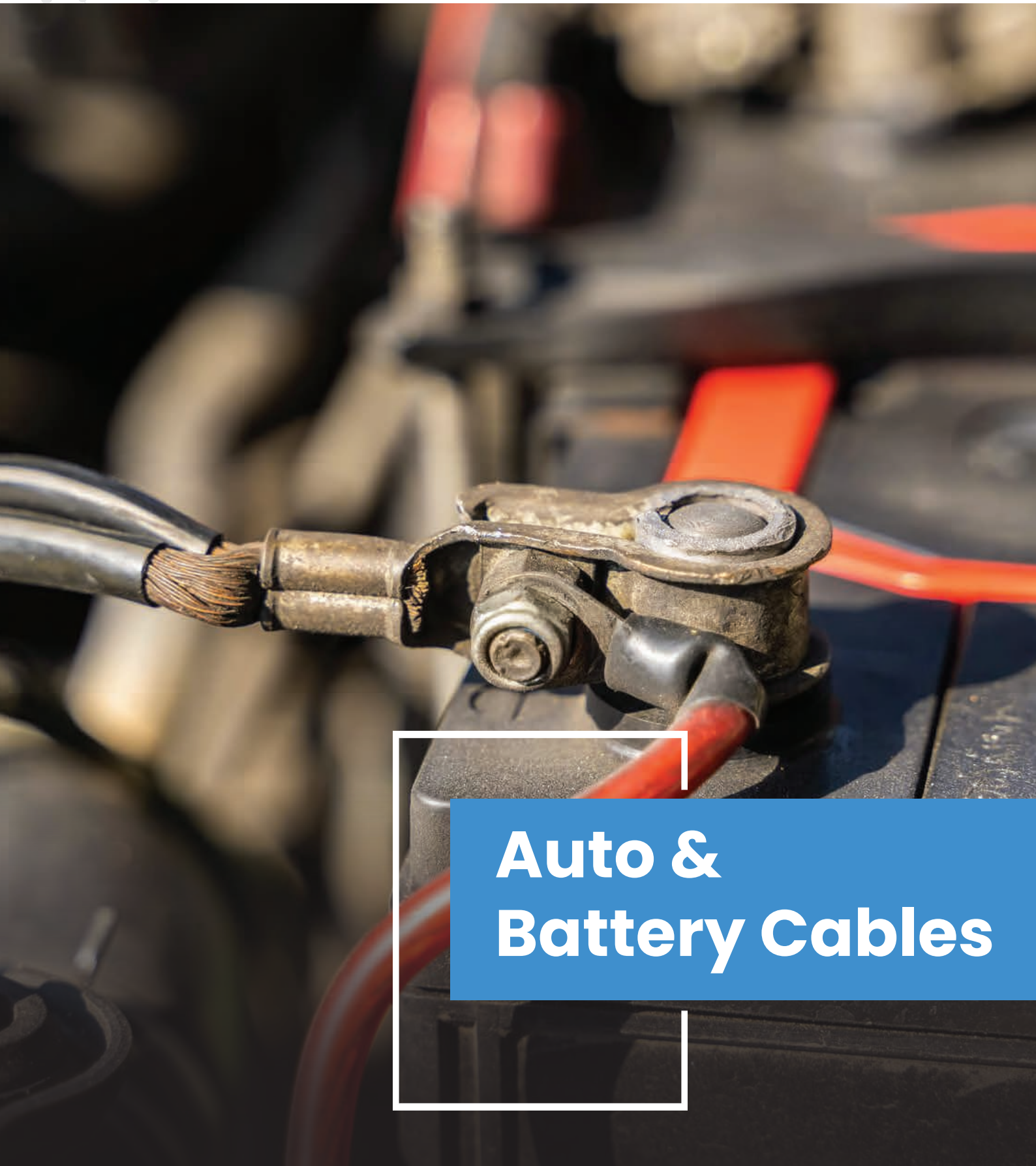
Nominal Area of conductor	Thickness of insulation	Thickness of Extruded Bedding	Diameter of Armour wire	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. cable Weight (Al)
mm	mm	mm	mm	mm	mm	kg/km	kg/km
1.5#	0.6	0.8	0.9	1.4	12.8	307	-
2.5#	0.7	0.8	0.9	1.4	14.1	387	-
4#	0.8	0.8	0.9	1.4	15.8	493	-
6#	0.8	0.8	1.25	1.5	18.0	701	-
10#	1.0	0.8	1.25	1.6	21.2	967	-
16#	1.0	0.8	1.25	1.6	23.1	1219	-
25	1.2	1.0	1.6	1.7	25.0	1612	1150
35	1.2	1.0	1.6	1.8	27.1	1992	1345
50	1.4	1.0	1.6	1.9	30.5	2534	1610
70	1.4	1.2	2.0	2.0	35.0	3518	2220
95	1.6	1.2	2.0	2.1	39.3	4510	2745
120	1.6	1.2	2.0	2.2	42.2	5375	3145
150	1.8	1.4	2.5	2.4	47.5	6810	4020
185	2.0	1.4	2.5	2.5	51.9	8190	4730
240	2.2	1.6	2.5	2.6	57.8	10280	5820
300	2.4	1.6	2.5	2.8	63.2	12430	6850
400	2.6	1.6	2.5	3.0	69.6	15400	7960

4 Core Cables-600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/SWA/PVC B.S. 6346, KS 04 - 194
AL/PVC/SWA/PVC B.S. 6346, KS 04 - 194

Nominal Area of Conductor	Thickness of Insulation	Thickness of Extruded Bedding	Diameter of Armour Wire	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	kg/km	kg/km
1.5#	0.6	0.8	0.9	1.4	13.5	330	
2.5#	0.7	0.8	0.9	1.5	15.0	430	
4#	0.8	0.8	1.25	1.5	17.8	640	
6#	0.8	0.8	1.25	1.5	19.2	770	
10#	1.0	0.8	1.25	1.6	22.8	1070	
16#	1.0	1.0	1.6	1.7	26.3	1550	
25	1.2	1.0	1.6	1.8	27.8	2005	1390
35	1.2	1.0	1.6	1.9	30.3	2490	1625
50	1.4	1.2	2.0	2.0	35.4	3475	2240
70	1.4	1.2	2.0	2.1	39.2	4480	2750
95	1.6	1.2	2.0	2.2	44.3	5710	3360
120	1.6	1.4	2.5	2.4	49.3	7350	4380
150	1.8	1.4	2.5	2.5	53.6	8720	5000
185	2.0	1.6	2.5	2.6	59.0	10540	5960
240	2.2	1.6	2.5	2.8	65.7	13290	7340
300	2.4	1.6	2.5	3.0	72.0	16050	8610
400	2.6	1.8	3.15	3.3	81.3	20950	11030

Circular Conductors





Auto & Battery Cables

Application

These are manufactured from annealed 99.97% pure copper conductors. They are flexible automotive cables ideal for use in automotive and marine applications, range of extra flexible battery/welding cable, using fine stranded copper conductors, Class 5, bare copper rope stranded, with PVC insulation, impervious to abrasion, moisture, petrol/diesel, oil and diluted acids etc.

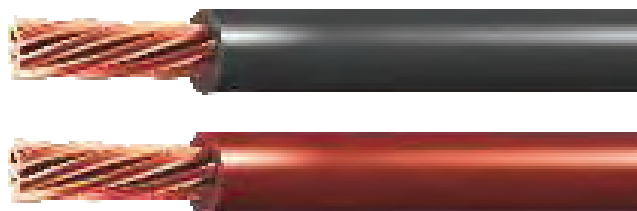
Specifications

Auto & battery cables - BS 6862-1

Temperature range: -15°C + 70°C

0.5 to 150.0 mm with Sizes: 185 to 240 mm

Conductors: Flexible Class 5 conductors to BS EN 60228



Ignition Cables

Table 36

1	2	3	4	5	6	7
Conductor						
Designation	Insulation	Number and Nominal diameter of wires	Approx. diameter of conductor	Maximum DC resistance at 20° C	Radial thickness of insulation	Overall diameter
		mm	mm	ohms/km	mm	mm
7mm	pvc	19/0.30	1.5	13.88	2.75 ±0.25	7 ±0.25

Table 37

PVC Insulated Battery Cables as per BS 6862-1				
Conductor Nominal Area sq. mm	Conductors Number and diameter of wire, mm	Cable parameters, Radial thickness of insulation, mm	Cable Parameters Approximate Overall diameter, mm	Cable parameters, Current, A (Ambient air temp 30°C, Max conductor temp 70°C)
16	126/0.4	1.0	7.80	57
25	196/0.4	1.2	9.70	71
35	276/0.4	1.2	10.9	91
50	396/0.4	1.4	13.2	120
70	360/0.5	1.4	15.3	165
95	475/0.5	1.6	17.9	200
120	608/0.5	1.6	19.4	225
150	750/0.5	1.8	21.9	250
185	925/0.5	2.0	24.5	300
240	1221/0.5	2.2	28.0	425
300	1525/0.5	2.6	33.5	773
400	2013/0.5	2.8	37.4	924
500	1769/0.6	3.0	41.3	1062
630	2257/0.6	3.0	45.5	1242

Table 38

<i>Single Core PVC Insulated Auto Cables as per BS 6862-1</i>				
<i>Conductor Nominal Area sq. mm</i>	<i>Conductors Number and diameter of wire, mm</i>	<i>Cable parameters, Radial thickness of insulation, mm</i>	<i>Cable Parameters Approximate Overall diameter, mm</i>	<i>Current Rating Amps</i>
0.5	7/0.3	0.6	2.15	4
0.75	11/0.3	0.6	2.45	7
1.00	15/0.3	0.7	2.70	11
1.50	22/0.3	0.7	3.00	14
2.50	36/0.3	0.7	3.65	19
4.00	56/0.3	0.8	4.30	26
6.00	84/0.3	0.8	5.20	31
10.00	140/0.3	1.0	6.60	42

Overhead Conductors & Cables

Aluminium conductors are the most favoured for use in the construction of relatively short span distribution schemes and are in common use on lines for voltage up to 60KV and above (all for bare).

Although aluminium-to-copper connections can be made, it is better to use aluminium conductors for service connections, as various forms of covered cable are available for this purpose.

The data sheets show the most common sizes of conductors but other sizes, to any recognised standards of customer specification can also be supplied.

AAC insulated with XLPE or PVC can be supplied as per the customer, requirement.

OVERHEAD LINE CONDUCTORS
British Sizes BS 215, Part 1: 1970
AAC- British Sizes

TABLE -1A

Code Name	Nominal area	Stranding & Wire Diameter	Approx. Overall Diameter	Total Area	Approx. Weight	Breaking Load	DC Resistance at 20°C	Current Rating
	mm ²	mm	mm	mm ²	kg/ km	kN	Ohm/km	A
Midge	22	7/2.06	6.18	23.33	64	3.99	1.22700	114
Ant	50	7/3.10	9.30	55.83	145	8.28	0.54190	181
Fly	60	7/3.40	10.20	63.55	174	9.9	0.45050	199
Wasp	100	7/4.39	13.17	106.00	290	16	0.27020	271
Hornet	150	19/3.25	16.25	157.60	434	25.7	0.18250	346
Chafer	200	19/3.78	18.90	213.20	587	32.4	0.13490	414
Coackroach	250	19/4.22	21.10	265.70	731	40.4	0.10830	470
Butterfly	300	19/4.65	23.25	322.70	888	48.75	0.08916	528
Centipede	400	37/3.78	26.46	415.20	1145	63.10	0.06944	619



Construction

The mixed construction of ACSR makes it a very flexible medium from a design point of view.

By varying the relative proportions of aluminium and steel the ideal conductor for any particular application can be produced. Generally, ACSR consists of a galvanized steel core of 1 wire, 7 wires or 19 wires surrounded by concentric layers of aluminium wire. When a conductor with a high current carrying capacity and comparatively low strength is required, special constructions are available with a high aluminium content.

Protection against corrosion

A coating of non-oxidizing grease is normally applied to the steel cores of all conductors, in addition to galvanizing of the steel wires. One or more layers of the aluminium wires can, if required, be supplied partially or fully greased.

Ensures complete freedom from contamination by other metals during the entire manufacture of ACSR conductors.

ACSR Cable



Overhead Line Conductors

British Sizes BS 215, Part 2: 1970

ACSR											
Code Name	Nominal Area	Stranding & Wire Diameter		Approx. Overall Diameter	Sectional Area			Approx. Weight	Breaking Load	DC Resistance 20°C	Current Rating
		Aluminium	Steel		Aluminium	Steel	Total				
	mm²	mm	mm	mm	mm²	mm²	mm²	kg/km	kN	ohm/km	A
Gopher	25	6/2.36	1/2.36	7.08	26.24	4.38	30.62	106	9.61	1.093	126
Weasel	30	6/2.59	1/2.59	7.77	31.61	5.27	36.88	128	11.45	0.9077	134
Ferret	40	6/3.00	1/3.00	9.00	42.41	7.07	49.48	172	15.20	0.6766	161
Rabbit	50	6/3.35	1/3.35	10.05	52.88	8.82	61.70	214	18.35	0.5426	185
Horse	70	12/2.79	7/2.79	13.95	73.37	42.83	116.20	538	61.20	0.3936	268
Dog	100	6/4.72	7/1.57	14.15	105.00	13.50	118.50	394	32.70	0.2733	278
Wolf	150	30/2.59	7/2.59	18.13	158.10	36.80	194.90	726	69.20	0.1828	355
Dingo	150	8/3.35	1/3.35	16.75	158.70	8.80	167.50	506	35.70	0.1815	349
Lynx	175	30/2.79	7/2.79	19.53	183.40	42.80	226.20	842	79.80	0.1576	386
Caracal	175	18/3.61	1/3.61	18.05	184.30	10.20	194.50	587	41.10	0.1563	383
Panther	200	30/3.00	7/3.00	21.00	212.10	49.20	261.50	974	92.25	0.1363	421
Jaguar	200	18/3.86	1/3.86	19.30	210.60	11.70	222.30	671	46.55	0.1367	415
Zebra	400	54/3.18	7/3.18	28.62	428.90	55.60	484.50	1621	131.90	0.0674	635

PVC COVERED COPPER CONDUCTOR

BS 6485 : 1999

BRITISH SIZES

Nominal Area	Number/ Strand Diameter	Approx. Conductor Diameter	Maximum DC Resistance at 20°C	Appropriate Breaking Load	Approx. Overall Diameter	C Approx. Mass of covered conductor		
mm ²	mm	mm	ohm/km	kN	Type - 8 * mm	Type - 16 mm	Type - 8 * kg/km	Type - 16 kg/km
16	3/2.65	5.70	1.1060	6.590	7.7	9.3	180	220
35	7/2.50	7.50	0.5337	14.097	9.9	11.5	360	400
70	7/3.55	10.65	0.2646	26.880	13.5	14.7	690	750
100	7/4.30	12.90	0.1810	37.640	15.7	16.9	990	1060

* PVC Type - 8 is intended for use only where the operating voltage of power lines does not exceed 650V r.m.s. between any two conductors or 250V r.m.s. between any conductor & earth.

~ PVC Type - 16 is intended for use only where the operating voltage of power lines exceed 650V r.m.s. between any two conductors or 250V r.m.s. between any conductor & earth but does not exceed 11kV r.m.s. between conductors or 6.6kV r.m.s. between any conductor and earth.

Thickness of insulation

Type - 8 : 0.8mm

Type - 16 : 1.6mm



Normative Standards Register

KS 1022	IEC 502, IEC 228	600/1000 V PVC insulated single-phase concentric cables with copper or aluminium conductors for electricity supply
KS 04-453	BS 6004	PVC insulated cable (non- armoured)for electric power and lighting
KS 04-194	BS 6346	PVC insulated cables for electricity supply (Armoured cable)
KS 04-192; KS EAS 117-2	BS 6500	PVC insulated flexible cables and cords of rated voltage U/U up to and including 450/750 V
KS 04-187; KS EAS 116	BS 6746; IEC 60228	Conductors of insulated cables.
KS 04 –314 part 1		Auto mobile cables
	BS 183 & 443	Galvanized steel wire (stay wire)
	BS 2627 & BS 6746	Aluminium binding wire bare & PVC insulated
KS 04 – 190 part 1 - 190 Part 2	BS 215, BS 2627 & IEC 209	Stranded aluminium conductors steel – reinforced and galvanized steel wire for reinforcing aluminium conductor
	BS 6346, IEC 502 & 228	MV aluminum cables PVC insulated armoured cables
	BS EN 50363 -3	Electric Cables - Insulation
KS 188	BS 7655-4.2:2000	Electric Cables - Sheath
	BS 215 / ASTM- 13231	AAC, AAAC Conductors
	IEC 60502 / NFC 33-209	Aerial Bundled Conductor (ABC)
	BS 6231	Single core PVC insulated flexible cables of rated voltage 600/1000v for switch gear and control gear wiring



Laboratory Test Report

Page 1 of 3

REPORT UID: 20220516202024-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

9. Sample Submission Form No: 285817

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Conductor Resistance	Ohm/Km 3.04	Maximum of 3.08 Ohm/km at 20°C.	Clause 13.1	
2.	Construction				
I	Colour of core: 450/750V: 1-Core	Black	Shall be green/yellow, blue or other colours	clause 11	
II	Conductor material	Annealed copper	Shall be of annealed copper	clause 11	
III	Insulation material/colour	PVC	PVC green/yellow, blue or other colours	clause 11	
3.	Insulation Resistance	Megohm.Km 15	Min. 0.0065 Megohm.Km	clause 13.4	
4.	Insulation Thickness				
I	Mean: 6.0mm ² Single Core	mm 0.92	Minimum mean of 0.8	Clause 12.1	
II	Min. measured: 6.0mm ² Single Core	mm 0.78	Minimum measured of 0.62mm	Clause 12.1	

COMMENTS/REMARKS:

The sample performed as shown

MICHAEL OGANGA - Manager, Testing Electrical Laboratory

FOR: MANAGING DIRECTOR

16 May, 2022

Date of Issue

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Laboratory Test Report

REPORT UID: 20220516202025-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

9. Sample Submission Form No: 285817

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
5.	Marking				
I	Certification Mark	Not marked	The cable may also be marked with the respective country's Certification Mark	clause 10	
II	Gap between inscriptions: On insulation mm	175	Maximum of 200mm	clause 10	
III	Indelibility of marking	Embossed	After the rubbing test, any marking by printing shall remain legible	clause 10	
IV	Indication of origin	KENYA CABLES	Shall be provided with an indication of origin consisting either of an identification thread or threads or the continuous marking of the manufacturer's name or trademark	clause 10	
V	Marking of manufacturer's name or trademark	KENYA CABLES	If used, shall be either by printing on a separate tape or on the insulation or sheath, or by indenting or embossing on the insulation or sheath	clause 10	
6.	Overall Dimensions mm	4.74	Maximum mean overall diameter of 5.4	clause 12.3	

COMMENTS/REMARKS:

The sample performed as shown

MICHAEL OGANGA - Manager, Testing Electrical Laboratory

FOR: MANAGING DIRECTOR

16 May, 2022

Date of Issue

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Laboratory Test Report

Page 3 of 3

REPORT UID: 20220516202026-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

9. Sample Submission Form No: 285817

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
7.	Voltage Test on Cores	Withstands test	Shall withstand without breakdown a voltage of 2,500V between the conductor(s) and water	clause 13.3	

COMMENTS/REMARKS:

The sample performed as shown

MICHAEL OGANGA - Manager, Testing Electrical Laboratory

FOR: MANAGING DIRECTOR

16 May, 2022

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Laboratory Test Report

Page 1 of 3

REPORT UID: 20220516202024-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

9. Sample Submission Form No: 285817

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

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LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
1.	Conductor Resistance	Ohm/Km 3.04	Maximum of 3.08 Ohm/km at 20°C.	Clause 13.1	
2.	Construction				
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II	Conductor material	Annealed copper	Shall be of annealed copper	clause 11	
III	Insulation material/colour	PVC	PVC green/yellow, blue or other colours	clause 11	
3.	Insulation Resistance	Megohm.Km 15	Min. 0.0065 Megohm.Km	clause 13.4	
4.	Insulation Thickness				
I	Mean: 6.0mm ² Single Core	mm 0.92	Minimum mean of 0.8	Clause 12.1	
II	Min. measured: 6.0mm ² Single Core	mm 0.78	Minimum measured of 0.62mm	Clause 12.1	

COMMENTS/REMARKS:

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MICHAEL OGANGA - Manager, Testing Electrical Laboratory

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Laboratory Test Report

Page 2 of 3

REPORT UID: 20220516202025-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

9. Sample Submission Form No: 285817

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

12. Parameters tested and Method(s) of test: as listed in the report below:

LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
5.	Marking				
I	Certification Mark	Not marked	The cable may also be marked with the respective country's Certification Mark	clause 10	
II	Gap between inscriptions: On insulation mm	175	Maximum of 200mm	clause 10	
III	Indelibility of marking	Embossed	After the rubbing test, any marking by printing shall remain legible	clause 10	
IV	Indication of origin	KENYA CABLES	Shall be provided with an indication of origin consisting either of an identification thread or threads or the continuous marking of the manufacturer's name or trademark	clause 10	
V	Marking of manufacturer's name or trademark	KENYA CABLES	If used, shall be either by printing on a separate tape or on the insulation or sheath, or by indenting or embossing on the insulation or sheath	clause 10	
6.	Overall Dimensions mm	4.74	Maximum mean overall diameter of 5.4	clause 12.3	

COMMENTS/REMARKS:

The sample performed as shown

MICHAEL OGANGA - Manager, Testing Electrical Laboratory

FOR: MANAGING DIRECTOR

16 May, 2022

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Laboratory Test Report

REPORT UID: 20220516202026-V1

KEBS Sample Ref. No: BS202210293

Date : 16 May, 2022

1. Description of Sample: 6 sq. mm Single core PVC Insulated Non Armoured

2. Sample Submitted by: KEBS NAIROBI REGION-QAS

6. Lab Ref: KEBS/TES/ELE-NAR/E/22

3. Customer Contact: Michael M. Nguku

7. Date of Receipt: 20 April, 2022

4. Customers Ref No: KEBS/NAR/SM/Kencables

8. Date Analysis Started: 12 May, 2022

9. Sample Submission Form No: 285817

5. Customer's Address: KEBS-NAR, NAIROBI, KENYA

10. Additional Information provided by the customer:

Kencables

11. Acceptance criteria-title and number of specification against which it is tested:

East African Standard PVC Insulated Cables (Non-armoured) for Electrical Power and Lighting - Specification EAS 114:1999

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LABORATORY TEST REPORT

No.	Parameters	Results	Requirements	Test Method No.	LOD
7.	Voltage Test on Cores	Withstands test	Shall withstand without breakdown a voltage of 2,500V between the conductor(s) and water	clause 13.3	

COMMENTS/REMARKS:

The sample performed as shown

MICHAEL OGANGA - Manager, Testing Electrical Laboratory

FOR: MANAGING DIRECTOR

16 May, 2022

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P.O. Box 56111
Nairobi, Kenya

Central Electricals International Ltd

P.O. Box 999,
Mombasa, Kenya

Tel: +254-20-4446025/35
E-mail: info@centralelectricals.com

Ref: CEIL-KCL/11/22

Date: 09th November 2022

TO WHOM IT MAY CONCERN,

Dear Sir,

RE: LETTER OF RECCOMENDATION

We wish to inform you that M/S Kencables Limited of P.O Box 785 - 00200, Nairobi has satisfactorily supplied us with electrical cable products compliant to the KS, BS and IEC standards within the scheduled timelines.

Kencables Ltd has proved to be a formidable copper/aluminum cable and conductor manufacturing company that has emerged as a trusted electrical cable manufacturer and the choice of electrical contractors, engineers and architects in the country and the region. Some of the products supplied to us include:

- Single Core Copper conductor PVC insulated cables (1.5mm² to 300mm²)
- Single Core Copper conductor PVC insulated PVC sheathed cables (up to 400mm²)
- Twin with Earth Copper conductor PVC PVC cables (up to 6.0mm²)
- Non armoured power cables (up to 70mm² 4 core)
- Armoured Cables

The cable products were used in the following projects:

- Ngong Police Complex
- RNUC, Ronal Ngala University Kilifi
- Flamboyant Development Company Ltd, Vipingo
- Jeevanjee Low Cost Housing
- Uhuru Park, Remodeling
- Imaara Mall
- Aga Khan Sports Club Mombasa

We have no hesitation in recommending Kencables Limited for the manufacturing and supply of electrical cables and conductors.

Thanking you,

Yours Faithfully,

CENTRAL ELECTRICALS INTERNATIONAL LTD.

KARIM MEGHJI
MANAGING DIRECTOR



Contact us on:
+254 110 002 000
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