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East African Cables
Connecting lives

CATALOGUE



www.eacables.com



Our Vision

To be the leading and preferred provider of cabling solutions.

Our Mission

To be a dynamic company committed to exceeding customer expectations and increasing our market share through the provision of high quality products and services.

Our Core Values

- Employees and customer safety comes first.
- Being ethical and acting with respect, integrity, fairness and care in our dealings with all our partners.
- Pride in what we do and continuously pursuing maximum productivity in a safe environment.
- Getting it right the first time and consistently pursuing excellence.
- Freedom with responsibility and accountability in all we do.

East African Cables In Brief

East African Cables began its operations in 1966 and has positioned its products to serve the Eastern and Central African market with high quality cables that meet international standards. The range of products includes; Copper Cables and Conductors for domestic applications as well as industrial power applications and Aluminium Conductors and Cables used for power transmission and distribution. East African Cables products are targeted towards the retail market, the minor and turnkey contractor projects and the Utility market that is primarily dominated by the power distribution companies.

With over four decades in cable manufacturing East African Cables has grown in leaps and bounds to be the leading manufacturer of Cables in East and Central Africa. The company has three manufacturing plants; Two plants in Nairobi, Kenya and one in Dar-es-salaam Tanzania, in addition to a distribution presence in; Uganda, Rwanda, Burundi, South Sudan and DRC. The company is listed in the Nairobi Stock Exchange.

East African Cables has proudly and consistently maintained high standards of quality in its products ensuring, Safe, Reliable and Economical cabling solutions.

In keeping with the evolving market demands, East African Cables has invested over Ksh 1.3 billion shillings in new machinery that is aimed at increasing productivity and introducing new products into the market.

East African Cables has the most advanced heavy metals manufacturing plant in Sub Sahara Africa. The plant is optimized to meet specific quality standards and is benchmarked against the best cables manufacturing plants in the world.

In 2010 East African Cables introduced 3 new products into the market;

- Aerial Bundled Cables (ABC) overhead power lines that are made up of several insulated conductors bundled together, this contrasts with the traditional practice of using conductors separated by air gaps. ABC is not only aesthetically appealing, but safer.
- Cross linked Polyethylene (XLPE); Insulation material that has the ability to carry more current for the same size of cable compared to PVC insulated cables. Has excellent resistance to water, salts acids and alkaline, and better strength at higher temperatures.
- Halogen Free Fire Retardant (HFFR). These are the cables insulated or sheathed with PVC having smoke suppressive chemicals that ensure very little smoke is emitted in case of fire in addition to the non emission toxic gases.

In addition East African Cables has consistently maintained an internationally accredited Quality Management System currently based on the ISO 9001 standard. The company was first awarded the ISO 9001 certificate in 2003 and has since been periodically assessed for conformity and compliance to the ISO 9001 standard by international external assessors.

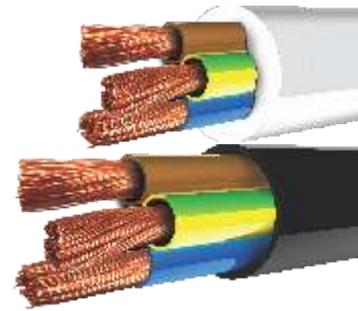
East African Cables mission is to be the leading and preferred provider of cabling solutions, making it an attractive partner for all stakeholders, shareholders, customers, and employees.

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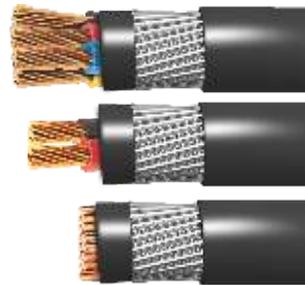
House Wiring Cables



Flexible Cables



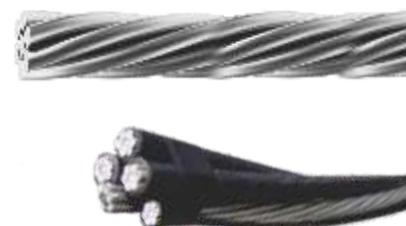
Power and Control Cables



Auto and Battery Cables



Overhead Conductors





House Wiring

PVC Insulated Non Sheathed Single Core Cables

Ref. 6491X

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

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

Table 1
Annealed solid or stranded Copper conductors insulated with PVC compound rated 70°C or 85°C for HFFR.
Other sizes available on order.

PVC Insulated and PVC Sheathed Flat Wiring Cables

Ref. 6192Y (Twin Flat)
Ref. 6242Y (Twin with earth)

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 2

Reference Number	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 mm	Approx. Weight Kg/Km
				CORE 1	ECC	CORE 2		DC at 20°C	AC at 70°C	In air	In ducts		
	mm ²	mm	mm				mm ²						
6242Y	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



Table 3

Reference Number	Nominal cross sectional area	insulation thickness	sheath thickness	Number/Diameter of wire		Max. Conductor resistance (Ω/Km)		Current rating Amps (A)		Dimension mm	Approx. Weight Kg/Km
				CORE 1	CORE 2	DC at 20°C	AC at 70°C	In air	In ducts		
	mm ²	mm	mm								
6192Y	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

A close-up photograph of several coils of copper flexible cables. The cables are tightly packed and show a rich, metallic copper color. The lighting is dramatic, with highlights and shadows that emphasize the texture and curvature of the coils. One coil is in the foreground, and another is visible in the background, slightly out of focus.

Flexible Cables

PVC Insulated and PVC Sheathed Flexible Cables.

Refs. 3180-Y, 6701X, 2492X

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

Reference Number	Nominal conductor Area	Nominal Conductor Stranding	Insulation Thickness	Max. O/D	Approx. Cable Weight
6701X	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	

Other sizes available on order.

Flexible Twin Flat Cables

Table 5

Reference Number	Nominal conductor Area	Nominal Conductor Stranding	Insulation Thickness	Max. O/D	Approx. Cable Weight
2492X	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

Table 6

Circular Flexible Cables

Reference Number	Nominal conductor Area	Nominal Conductor Stranding	Insulation Thickness	Overall Diameter		Approx. Cable Weight
				Min.	Max.	
	mm ²	#/mm	mm	mm	mm	kg/km

Two core type 3182 Y

3182Y	0.75	24/0.2	0.6	5.7	7.2	63
	1.0	32/0.2	0.6	5.9	7.5	73
	1.25	40/0.2	0.7	6.3	8.0	84
	1.5	30/0.25	0.7	6.8	8.6	95
	2.5	50/0.25	0.8	8.4	10.6	145
	4.0	56/0.3	0.8	10.1	12.0	200



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

Table 7

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

Other sizes available on order.



A photograph of a manufacturing facility, likely a wire mill, showing several large spools of copper wire. The spools are mounted on blue machinery with red accents. The background features more industrial equipment and a safety cage. The overall scene is brightly lit, highlighting the metallic sheen of the copper wire.

Power & Control Cable

PVC INSULATED ARMoured CABLES

PVC Insulated, PVC Taped, Steel Wire Armoured and PVC Sheathed.

Multicore Control Cables with Stranded Copper conductors

Ref. 694-X

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

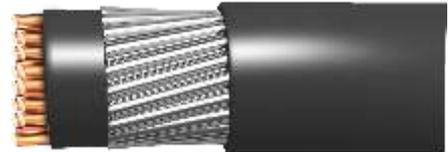
Four core: Red, Yellow, Blue and Black

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

Sheath colour: Black.

Other colours available to order.

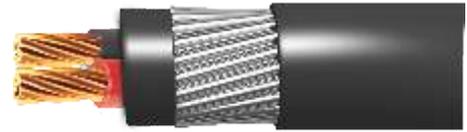
Maximum conductor temperature: 70°C



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

Table 8

Reference Number	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
6941X	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

Reference Number	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
6942X	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

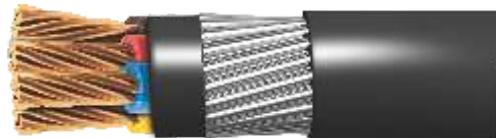
Table 10

Reference Number	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
6943X	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	



Table 11

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



Reference Number	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
6944X	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



3 ½ Core with Reduced Neutral - 600/1000V
 DIMENSIONS & WEIGHTS
 CU/PVC/SWA/PVC B.S. 6346, KS 04 - 194
 AL/PVC/SWA/PVC B.S. 6346, KS 04 - 194

Reference Number	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 of weight (Al)
	Phase	Neutral	Phase	Neutral						
	mm ²		mm							
6943 ½ X	10#	6	1.0	0.8	1.0	1.25	1.8	23.4	1370	-
	16#	10	1.0	1.0	1.0	1.25	1.8	25.0	1620	-
	25	16	1.2	1.0	1.0	1.6	1.8	27.8	1900	1375
	35	16	1.2	1.0	1.0	1.6	1.8	29.5	2300	1590
	50	25	1.4	1.2	1.0	1.6	1.9	33.1	3050	1950
	70	35	1.4	1.2	1.2	2.0	2.0	38.0	4130	2655
	95	50	1.6	1.4	1.2	2.0	2.2	43.7	5370	3105
	120	70	1.6	1.4	1.4	2.5	2.3	49.0	6840	4195
	150	70	1.8	1.4	1.4	2.5	2.4	52.0	8040	4815
	185	95	2.0	1.6	1.4	2.5	2.5	57.2	9760	5705
	240	120	2.2	1.6	1.6	2.5	2.7	63.7	12210	7020
	300	150	2.4	1.8	1.6	2.5	2.9	69.8	14840	8205
	300	185	2.4	2.0	1.6	2.5	2.9	71.8	17730	8750
	400	185	2.6	2.0	1.8	3.15	3.1	78.6	19090	10530

Table 13

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

Reference Number	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
	mm ²	mm	mm	mm	mm	mm	kg/km
6945X	10	1.0	1.0	1.6	1.7	25.8	1150
	16	1.0	1.0	1.6	1.7	28.4	1670
	25	1.2	1.0	1.6	1.9	33.5	2250
	35	1.2	1.0	1.6	1.9	36.6	2670
	50	1.4	1.2	2.0	2.1	43.0	3590
	70	1.4	1.2	2.0	2.2	48.1	4610

XLPE INSULATED ARMoured CABLES

XLPE Insulated, PVC Bedded, Steel Wire Armoured and PVC Sheathed Cables with Stranded Copper Conductors

Standard: IEC 60502

Voltage rating: 600/1000V (Um 1200V).

Application: Industrial and mains distribution.

Suitable; laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

Construction: Single or multi core cables. Stranded plain copper conductors, XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured (Aluminium wires for single cores) 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

Other colours available on order

Sheath colour: Black.

Maximum conductor temperature: 90°C.

Table 14

L.V. Power and Control Cables
Single Core Cable - 600/1000 - V
CU/XLPE/AWA/PVC - IEC 60502
AL/XLPE/AWA/PVC - IEC 60502

Reference Number	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
6941 X	50	1.0	0.8	0.9	1.5	17.5	695	405
	70	1.1	0.8	1.25	1.5	20.2	960	540
	95	1.1	0.8	1.25	1.6	22.3	1240	655
	120	1.2	0.8	1.25	1.6	24.2	1495	760
	150	1.4	1.0	1.6	1.7	27.4	1908	1000
	185	1.6	1.0	1.6	1.8	30	2320	1185
	240	1.7	1.0	1.6	1.8	32.8	2910	1420
	300	1.8	1.0	1.6	1.9	35.6	3550	1690
	400	2.0	1.2	2.0	2.0	40.5	4011	2195
	500	2.2	1.2	2.0	2.1	44.2	5011	2580
	630	2.4	1.2	2.0	2.2	48.8	6497	3170
	800	2.6	1.4	2.5	2.4	55.4	10875	4400
	1000	2.8	1.4	2.5	2.5	60.6	10166	6690

Single Core Cable - 1900/3300V
 DIMENSIONS & WEIGHTS
 AL/CU/XLPE/AWA/PVC IEC 60502
 AL/XLPE/AWA/PVC IEC 60502

Table 15

Reference Number	Nominal Area of conductor	Thickness of insulation	Thickness of Extruded Bedding	Diameter of Armour wire	Thickness of Outer Sheath	Approx. Cable Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
	mm	mm	mm	mm	mm	mm	Kg/km	Kg/km
63941X	50	2.0	0.8	1.25	1.6	20.6	780	810
	70	2.0	0.8	1.25	1.6	22.4	1000	868
	95	2.0	0.8	1.25	1.6	24.3	1270	940
	120	2.0	1.0	1.6	1.7	27.2	1620	1253
	150	2.0	1.0	1.6	1.7	28.8	1895	1566
	185	2.0	1.0	1.6	1.8	30.8	2275	1931
	240	2.0	1.0	1.6	1.8	33.5	2840	2510
	300	2.0	1.0	1.6	1.9	36.1	3450	3138
	400	2.0	1.2	2.0	2.0	40.5	4410	2201
	500	2.2	1.2	2.0	2.1	44.2	5510	-
	630	2.4	1.2	2.0	2.2	48.8	7145	3251
	800	2.6	1.4	2.5	2.4	55.4	8990	4197
	1000	2.8	1.4	2.5	2.5	60.6	11180	2252

L.V. Power and Control Cables
 2 Core Cables - 600/1000 V
 DIMENSIONS & WEIGHTS
 CU/XLPE/SWA/PVC IEC 60502
 AL/XLPE/SWA/PVC IEC 60502

Table 16

Reference Number	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
6942X	1.5#	0.6	0.8	0.9	1.3	12.1	315	-
	2.5#	0.7	0.8	0.9	1.4	13.6	380	-
	4#	0.7	0.8	0.9	1.4	14.7	460	-
	6#	0.7	0.8	0.9	1.4	15.9	550	-
	10#	0.7	0.8	0.9	1.5	18.0	795	-
	16#	0.7	0.8	1.25	1.5	20.4	860	-
	25	0.9	0.8	1.25	1.6	20.4	1000	690
	35	0.9	1.0	1.6	1.7	23.3	1420	990
	50	1.0	1.0	1.6	1.8	25.8	1760	1140
	70	1.1	1.0	1.6	1.9	29.0	2270	1400
	95	1.1	1.2	2.0	2.0	33.1	3120	1940
	120	1.2	1.2	2.0	2.1	36.1	3730	2240
	150	1.4	1.2	2.0	2.2	39.3	4430	2570
	185	1.6	1.4	2.5	2.4	44.7	5700	3400
	240	1.7	1.4	2.5	2.5	49.0	7060	4080
	300	1.8	1.6	2.5	2.6	53.5	8490	4770
	400	2.0	1.6	2.5	2.8	59.0	10470	5510

Circular conductor

Table 17

Reference Number	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
6943X	1.5#	0.6	0.8	0.9	1.3	12.6	330	-
	2.5#	0.7	0.8	0.9	1.4	14.1	415	-
	4#	0.7	0.8	0.9	1.4	15.3	505	-
	6#	0.7	0.8	0.9	1.4	16.6	615	-
	10#	0.7	0.8	1.25	1.5	19.5	870	-
	16#	0.7	0.8	1.25	1.6	21.6	1055	-
	25	0.9	1.0	1.6	1.7	23.6	1485	1020
	35	0.9	1.0	1.6	1.8	25.7	1855	1200
	50	1.0	1.0	1.6	1.8	28.5	2305	1380
	70	1.1	1.0	1.6	1.9	32.2	3050	1750
	95	1.1	1.2	2.0	2.1	37.0	4190	2420
	120	1.2	1.2	2.0	2.2	40.4	5050	2820
	150	1.4	1.4	2.5	2.3	45.5	6450	3650
	185	1.6	1.4	2.5	2.4	49.8	7790	4350
	240	1.7	1.4	2.5	2.6	55.1	9680	5220
	300	1.8	1.6	2.5	2.7	60.2	11780	6200
400	2.0	1.6	2.5	2.9	66.6	14600	7160	

Circular conductors.

Table 18

Reference Number	Nominal area of conductor	Thickness of Insulation	Thickness of extruded beddings	Nominal Armour wire Diameter	Thickness of oversheath	Approx. overall Diameter	Approx. cable weight (Cu)	Approx cable weight
	mm ²	mm	mm	mm	mm	Kg/km	Kg/km	
63943X	16#	2.0	1.0	1.6	1.8	29.3	1480	-
	25#	2.0	1.0	1.6	1.8	32.2	1840	1380
	35	2.0	1.0	1.6	1.9	31.1	2135	1500
	50	2.0	1.2	2.0	2.0	34.7	2840	1984
	70	2.0	1.2	2.0	2.1	38.0	3570	2324
	95	2.0	1.2	2.0	2.2	41.4	4465	2725
	120	2.0	1.4	2.5	2.3	45.7	5780	3553
	150	2.0	1.4	2.5	2.4	48.5	6730	4000
	185	2.0	1.4	2.5	2.5	51.9	7840	4405
	240	2.0	1.6	2.5	2.6	56.9	9815	5336
	300	2.0	1.6	2.5	2.7	61.2	11820	6163

Circular conductors

Table 19

4 Core Cables - 600/1000 V
 CU/XLPE/SWA/PVC - B.S. 5467
 AL/XLPE/SWA/PVC - B.S. 5467

Reference Number	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
6944X	1.5	0.6	0.8	0.9	1.3	13.3	345	-
	2.5	0.7	0.8	0.9	1.4	15	440	-
	4	0.7	0.8	0.9	1.4	16.4	540	-
	6	0.7	0.8	1.25	1.5	18.7	780	-
	10	0.7	0.8	1.25	1.5	21.1	1125	-
	16	0.7	0.8	1.25	1.6	23.4	1300	-
	25	0.9	1.0	1.6	1.7	26.1	1860	1240
	35	0.9	1.0	1.6	1.8	28.6	2335	1470
	50	1.0	1.0	1.6	1.9	32.0	2960	1720
	70	1.1	1.2	2.0	2.1	37.7	4200	2520
	95	1.1	1.2	2.0	2.2	41.7	5400	3040
	120	1.2	1.4	2.5	2.3	47.1	6990	4010
	150	1.4	1.4	2.5	2.4	51.4	8300	4580
	185	1.6	1.4	2.5	2.6	56.6	10076	5490
	240	1.7	1.6	2.5	2.7	63.0	12660	6710
300	1.8	1.6	2.5	2.9	68.8	15350	7910	



HFFR INSULATED ARMoured CABLES (HALOGEN FREE FIRE RETARDANT)

HFFR Insulated, HFFR Bedded, Armoured and HFFR Sheathed Cables with Stranded Copper Conductors

Ref. 694-HFFR

Standard: BS 6724.

Voltage rating: 600/1000V.

Application: Industrial wiring and mains distribution, where smoke and toxic emission would pose a major hazard in the event of fire. Suitable; laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

Construction: Single, multi core cables. Stranded plain copper conductors, XLPE insulated, cores laid up, extruded Halogen Free Fire Retardant HFFR bedding, galvanized steel wire armoured (Aluminium wires for single cores) and HFFR sheathed.

Core colours:

Two core Red and Black

Three core Red, Yellow and Blue

Four core Red, Yellow, Blue and Black

Five core Red, Yellow, Blue, Black and Brown.

Sheath colour: Black.

Other colours available on order.

Maximum conductor temperature: 90°C.

Designs with alternative core identification are available to order.

Table 20

AWA Cables-BS6724 ALuminium Wire Armoured HFFR
Dimensions
BS 6724 CU/XLPE/HFFR/AWA/HFFR(Copper)

Reference Number	Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Diameter		Nominal Weight
			Under Armour	Overall	
HFFR	mm ²	mm	Under Armour	Overall	kg/km
AWA Cable-BS6724 Aluminium Wire Armoured HFFR-1 Core					
6941X	50	1.0	12.7	17.5	800
	70	1.1	14.7	20.2	960
	95	1.1	16.6	22.3	1240
	120	1.2	18.5	24.2	1510
	150	1.4	20.8	27.4	1900
	185	1.6	23.2	30.0	2320
	240	1.7	26.0	32.8	2930
	300	1.8	28.6	35.6	3580
	400	2.0	32.4	40.4	4600
	500	2.2	36.0	44.2	5770
	630	2.4	40.0	48.8	7250
	800	2.6	45.6	55.4	9381
1000	2.8	50.6	60.6	11540	

XLPE Insulated, HFFR Bedded, Armoured and HFFR Sheathed. Multicore Control Cables with Stranded Copper Conductors

Ref. 6942X

Standard: BS 6724.

Voltage rating: 600/1000V.

Application: Industrial wiring for remote control and telemetry circuits etc. where smoke and toxic emission would pose a major hazard in the event of fire. 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 plain copper conductors, XLPE insulated, cores laid up, extruded Halogen Free Fire Retardant bedding, galvanized steel wire armoured and Halogen Free Fire Retardant (HFFR) sheathed.

Core colours:

Single core: Red or black.

Two core: Black and red.

Three core: Red, blue and yellow.

Four core: Black, red, blue and yellow.

Five core: Black, red, blue, yellow and brown

Insulated Black with White numerals.

Sheath colour: Black.

Other colours available to order.

Maximum conductor temperature: 90°C.

Table 21

Reference Number	No. Of Cores x Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Diameter		Nominal Weight
			Under Armour	Overall	
HFFR	mm ²	mm	Under Armour	Overall	kg/km
SWA Cable-BS6724 Steel Wire Armoured HFFR-2 Cores					
6942X	1.5	0.6	7.3	12.1	302
	2.5	0.7	8.5	13.6	346
	4.0	0.7	9.4	14.7	410
	6.0	0.7	10.5	15.9	499
	10.0	0.7	12.3	18.0	648
	16.0	0.7	14.3	20.4	978
	25.0	0.9	14.7	20.4	1290
	35.0	0.9	16.8	23.3	1500
	50.0	1.0	19.0	25.8	1890
	70.0	1.1	22.0	29.0	2450
	95.0	1.1	25.1	33.1	3300
150.0	1.4	30.9	39.3	4750	

Reference Number	Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Diameter		Nominal Weight
	mm ²	mm	Under Armour	Overall	kg/km
SWA Cable-BS6724 Steel Wire Armoured HFFR-3 Cores					
6943X	1.5	0.6	7.8	12.6	330
	2.5	0.7	9.2	14.1	390
	4.0	0.7	10.0	15.3	464
	6.0	0.7	11.2	16.6	568
	10.0	0.7	13.1	19.5	866
	16.0	0.7	15.3	21.6	1152
	25.0	0.9	18.9	25.5	1800
	35.0	0.9	21.3	28.0	2230
	50.0	1.0	21.7	28.5	2490
	70.0	1.1	25.2	32.2	3290
	95.0	1.1	28.8	37.0	4440

SWA Cable-BS6724 Steel Wire Armoured HFFR-4Cores					
6944X	1.5	0.6	8.5	13.5	365
	2.5	0.7	9.9	15.0	438
	4.0	0.7	11.0	16.4	532
	6.0	0.7	12.3	18.7	764
	10.0	0.7	14.5	21.1	1013
	16.0	0.7	17.0	22.9	1360
	25.0	0.9	21.0	27.6	2160
	35.0	0.9	23.6	30.4	2690
	50.0	1.0	25.0	32.0	3130
	70.0	1.1	29.5	37.7	4500
	95.0	1.1	33.3	41.7	5600
	120.0	1.2	37.5	47.1	7400
	150.0	1.4	41.6	51.4	8780
	185.0	1.6	46.4	46.4	10630
240.0	1.7	52.6	63.0	13390	

Reference Number	Nominal Cross Sectional Area	Nominal Thickness of Insulation	Nominal Diameter		Nominal Weight
			Under Armour	Overall	
HFFR	mm ²	mm			kg/km
SWA Cable-BS6724 Steel Wire Armoured HFFR-5Cores					
6945X	1.5	0.6	9.7	14.3	410
	2.5	0.7	11.7	16.3	470
	4.0	0.7	13.0	17.8	710
	6.0	0.7	14.5	20.0	876
	10.0	0.7	17.2	22.9	1165
	16.0	0.7	20.0	26.6	1742
	25.0	0.9	24.7	31.5	2323
	35.0	0.9	27.8	34.8	2932
	50.0	1.0	32.4	40.4	4192
SWA Cable-BS6724 Steel Wire Armoured HFFR-7Cores					
6947X	1.5	0.6	10.2	15.2	470
	2.5	0.7	12.3	17.1	600
SWA Cable-BS6724 Steel Wire Armoured HFFR-12Cores					
6940/12	1.5	0.6	13.7	19.4	780
	2.5	0.7	16.3	22.4	1000
SWA Cable-BS6724 Steel Wire Armoured HFFR- 19 Cores					
6940/19	1.5	0.6	16.2	22.2	1000
	2.5	0.7	19.9	26.6	1540
SWA Cable-BS6724 Steel Wire Armoured HFFR- 27 Cores					
6940/27	1.5	0.6	20.0	26.7	1500
	2.5	0.7	24.0	30.7	1950
SWA Cable-BS6724 Steel Wire Armoured HFFR- 37 Cores					
6940/37	1.5	0.6	22.3	29.0	1800
	2.5	0.7	26.9	33.8	2350

PVC INSULATED NON-ARMOURED CABLES

Single Core Cable-600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/PVC to IEC 60502
AL/PVC/PVC to IEC 60502

Table 24

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
6181Y	mm ²	mm	mm	mm	kg/km	kg/km
	50	1.4	1.4	15.1	580	290
	70	1.4	1.4	16.9	790	370
	95	1.6	1.5	19.4	1090	510
	120	1.6	1.5	21.0	1340	605
	150	1.8	1.6	23.2	1630	725
	185	2.0	1.7	25.8	2080	895
	240	2.2	1.8	29.0	2650	1160
	300	2.4	1.9	32.1	3250	1380
	400	2.6	2.0	35.8	4180	1790
	500	2.8	2.1	39.6	5210	2225
	630	2.8	2.2	43.8	6480	2585
	800	2.8	2.3	48.3	8250	3060
	1000	3.0	2.5	53.7	10300	3740

2 Core Cables- 600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/PVC to IEC 60502
AL/PVC/PVC to IEC 60502

Table 25

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
6182Y	mm ²	mm	mm	mm	kg/km	kg/km
	1.5#	0.8	1.8	9.5	130	-
	2.5#	0.8	1.8	9.8	190	-
	4#	1.0	1.8	11.5	240	-
	6#	1.0	1.8	12.8	310	-
	10#	1.0	1.8	15.7	450	-
	16#	1.0	1.8	17.2	600	-
	25	1.2	1.8	17.4	820	510
	35	1.2	1.8	18.9	1040	610
	50	1.4	1.8	21.8	1250	730
	70	1.4	1.9	24.2	1670	805
	95	1.6	2.0	27.6	2150	970
	120	1.6	2.1	29.9	2650	1165
	150	1.8	2.2	33.3	3500	1320
	185	2.0	2.4	36.8	4040	1750
	240	2.2	2.6	41.1	5230	2250
	300	2.4	2.7	45.6	6520	2800
	400	2.6	3.0	51.4	8270	3310

Circular conductors.

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)
6183Y	mm ²	mm	mm	mm	kg/km
	1.5#	0.8	1.8	10.0	110
	2.5#	0.8	1.8	11.4	160
	4#	1.0	1.8	13.2	225
	6#	1.0	1.8	14.6	300
	10#	1.0	1.8	17.7	470
	16#	1.0	1.8	19.3	655
	25	1.2	1.8	20.4	955
	35	1.2	1.8	22.3	1250
	50	1.4	1.8	25.6	1665
	70	1.4	2.0	28.6	2295
	95	1.6	2.1	32.7	3145
	120	1.6	2.2	35.4	3890
	150	1.8	2.3	39.3	4760
	185	2.0	2.5	43.7	5950
	240	2.2	2.7	48.1	7710
	300	2.4	2.9	53.6	9615
	400	2.6	3.1	60.6	12240

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)
6184Y	mm ²	mm	mm	mm	kg/km
	1.5#	0.8	1.8	10.8	135
	2.5#	0.8	1.8	12.3	195
	4#	1.0	1.8	14.2	280
	6#	1.0	1.8	15.8	380
	10#	1.0	1.8	19.2	595
	16#	1.0	1.8	21.0	840
	25	1.2	1.8	23.2	1240
	35	1.2	1.8	25.5	1640
	50	1.4	1.9	29.6	2200
	70	1.4	2.1	33.2	3050
	95	1.6	2.2	38.1	4170
	120	1.6	2.4	41.3	5160
	150	1.8	2.5	46.0	6340
	185	2.0	2.7	51.2	7890
	240	2.2	2.9	56.8	10250
	300	2.4	3.1	63.0	12820
	400	2.6	3.4	71.2	16280

Table 28

5 Core Cables-600/1000V
DIMENSIONS & WEIGHTS
CU/PVC/PVC-IEC:60502

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)
	mm ²	mm	mm	mm	kg/km
6185Y	10	1.0	1.8	22.6	685
	16	1.0	1.8	25.2	1000
	25	1.0	1.8	30.3	1490
	35	1.0	1.9	33.4	1990
	50	1.2	2.1	39.0	2700
	70	1.2	2.2	44.1	3750

Table 29

Control/Auxiliary cables-600/1000V
Cu/PVC-BS 6346

Number of cores	Nominal cross sectional area of conductor	Thickness of insulation	Thickness of extruded bedding	Nominal steel armour wire diameter	Thickness of oversheath	Approximate overall diameter
	mm	mm	mm	mm	mm	mm
7	1.5	0.6	0.8	0.9	1.4	15.2
12			0.8	1.25	1.5	19.4
19			0.8	1.25	1.6	22.2
27			1.0	1.6	1.7	26.7
37			1.0	1.6	1.7	29.0
48			1.0	1.6	1.8	32.7
7	2.5	0.7	0.8	0.9	1.4	17.1
12			0.8	1.25	1.6	22.4
19			1.0	1.6	1.7	26.6
27			1.0	1.6	1.8	30.7
37			1.0	1.6	1.8	33.8
48			1.2	2.0	2.0	39.3
7	4.0	0.7	0.8	1.25	1.5	19.7
12			1.0	1.6	1.6	25.7
19			1.0	1.6	1.7	29.3
27			1.0	1.6	1.9	34.4
37			1.2	2.0	2.0	39.2
48			1.2	2.0	2.1	44.1

The number of cores given here are preferred. Other numbers are permitted subject to agreement between the purchaser and manufacturer and where such numbers are manufactured, the dimensional details shall be as for the next highest preferred number of cores.

XLPE INSULATED NON-ARMOURED CABLES

L.V. Power and Control Cables
Single Core Cable - 600/1000V
CU/XLPE/PVC - B.S.: 7889
AL/XLPE/PVC - B.S.: 7889

Table 30

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
	mm ²	mm	mm	mm	kg/km	kg/km
6181Y	50	1.0	1.4	14.2	540	250
	70	1.1	1.4	16.2	750	330
	95	1.1	1.5	18.3	1010	425
	120	1.2	1.5	20.2	1250	510
	150	1.4	1.6	22.4	1540	635
	185	1.6	1.6	24.7	1905	770
	240	1.7	1.7	27.7	2480	990
	300	1.8	1.8	30.6	3080	1205
	400	2.0	1.9	34.2	3910	1515
	500	2.2	2.0	38.0	4900	1880
	630	2.4	2.2	42.9	6270	2370
	800	2.6	2.3	47.8	9570	4450
	1000	2.8	2.4	53.0	11950	5500

L.V. Power and Control Cables
2 Core Cables - 600/1000 V
CU/XLPE/PVC - IEC 60502
AL/XLPE/PVC - IEC 60502

Table 31

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
	mm ²	mm	mm	mm	kg/km	kg/km
6182Y	1.5#	0.7	1.8	10.9	110	-
	2.5#	0.7	1.8	11.1	140	-
	4#	0.7	1.8	12.2	190	-
	6#	0.7	1.8	14.1	245	-
	10#	0.7	1.8	15.1	355	-
	16#	0.7	1.8	16.9	490	-
	25	0.9	1.8	16.1	600	300
	35	0.9	1.8	18.2	800	370
	50	1.0	1.8	20.8	1050	430
	70	1.1	1.8	23.9	1470	600
	95	1.1	2.0	25.7	1980	800
	120	1.2	2.1	28.9	2490	1000
	150	1.4	2.2	31.8	3070	1210
	185	1.6	2.3	35.1	3820	1530
	240	1.7	2.5	42.2	4960	1980
	300	1.8	2.7	44.1	6150	2410
	400	2.0	2.9	49.9	7850	3070

Circular conductor.

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
	mm ²	mm	mm	mm	kg/ km	
	1.5#	0.7	1.8	10.9	130	-
	2.5#	0.7	1.8	11.8	170	-
	4#	0.7	1.8	13.0	230	-
	6#	0.7	1.8	13.6	305	-
	10#	0.7	1.8	17.7	450	-
	16#	0.7	1.8	18.2	615	630
	25	0.9	1.8	19.1	870	890
6183Y	35	0.9	1.8	21.1	1155	1190
	50	1.0	1.8	23.8	1530	1570
	70	1.1	1.9	27.2	2160	2220
	95	1.1	2.0	30.2	2920	3000
	120	1.2	2.1	33.4	3660	3760
	150	1.4	2.3	37.3	4475	4600
	185	1.6	2.4	41.4	5620	5770
	240	1.7	2.6	45.9	7320	7520
	300	1.8	2.8	50.7	9100	9350

Circular conductors



Table 33

L.V. Power and Control Cables
4 Core Cable -600/1000 -V
CU/XLPE/PVC - IEC 60502



Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
	mm ²	mm	Mm	mm	kg/km	
6184Y	1.5#	0.7	1.8	12.1	150	-
	2.5#	0.7	1.8	13.2	200	-
	4#	0.7	1.8	14.9	275	-
	6#	0.7	1.8	16.0	370	-
	# 10	0.7	1.8	18.6	560	-
	16	0.7	1.8	20.2	795	390
	25	0.9	1.8	21.8	1130	500
	35	0.9	1.8	24.1	1515	640
	50	1.0	1.9	27.5	2010	820
	70	1.1	2.0	31.7	2860	1150
	95	1.1	2.1	35.4	3870	1490
	120	1.2	2.3	39.2	4850	1850
	150	1.4	2.4	43.8	5980	2150
	185	1.6	2.6	48.7	7480	2860
	240	1.7	2.8	54.4	9735	3660
	300	1.8	3.0	59.9	12120	4490

Circular conductors

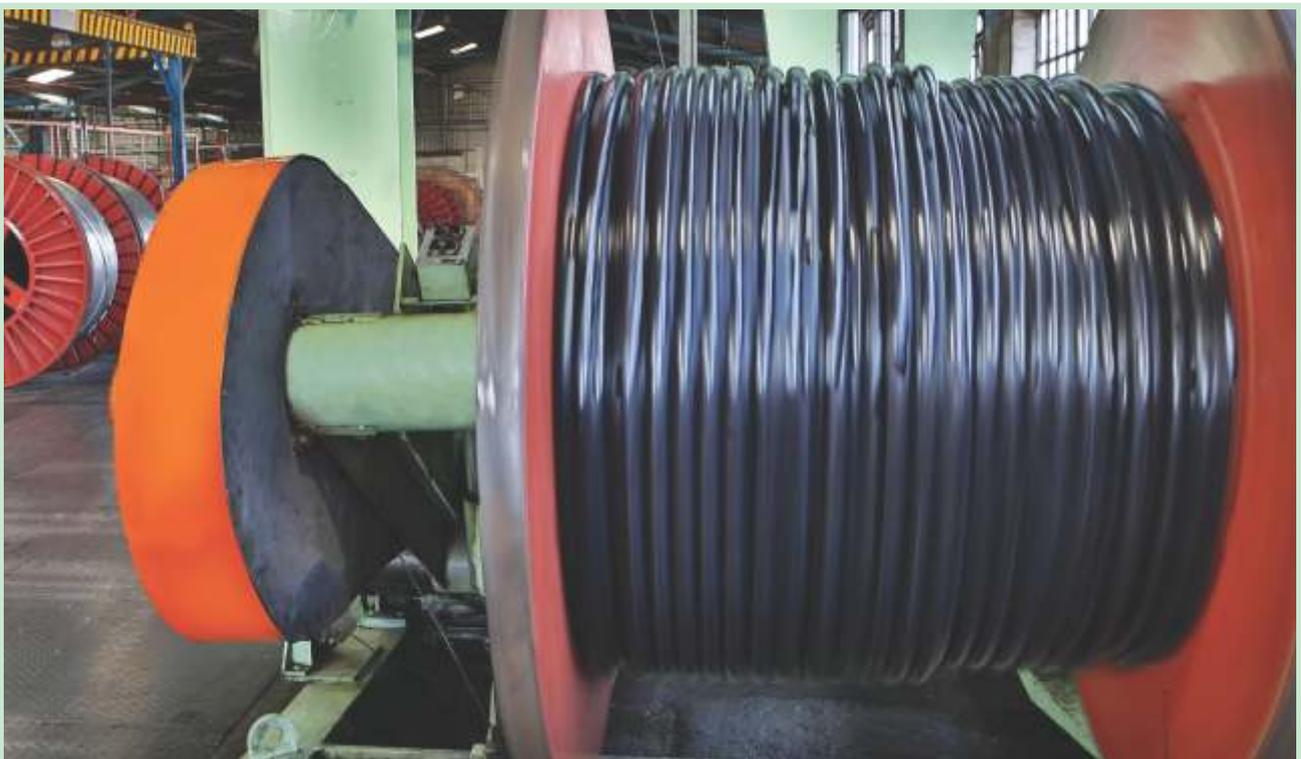


Table 34

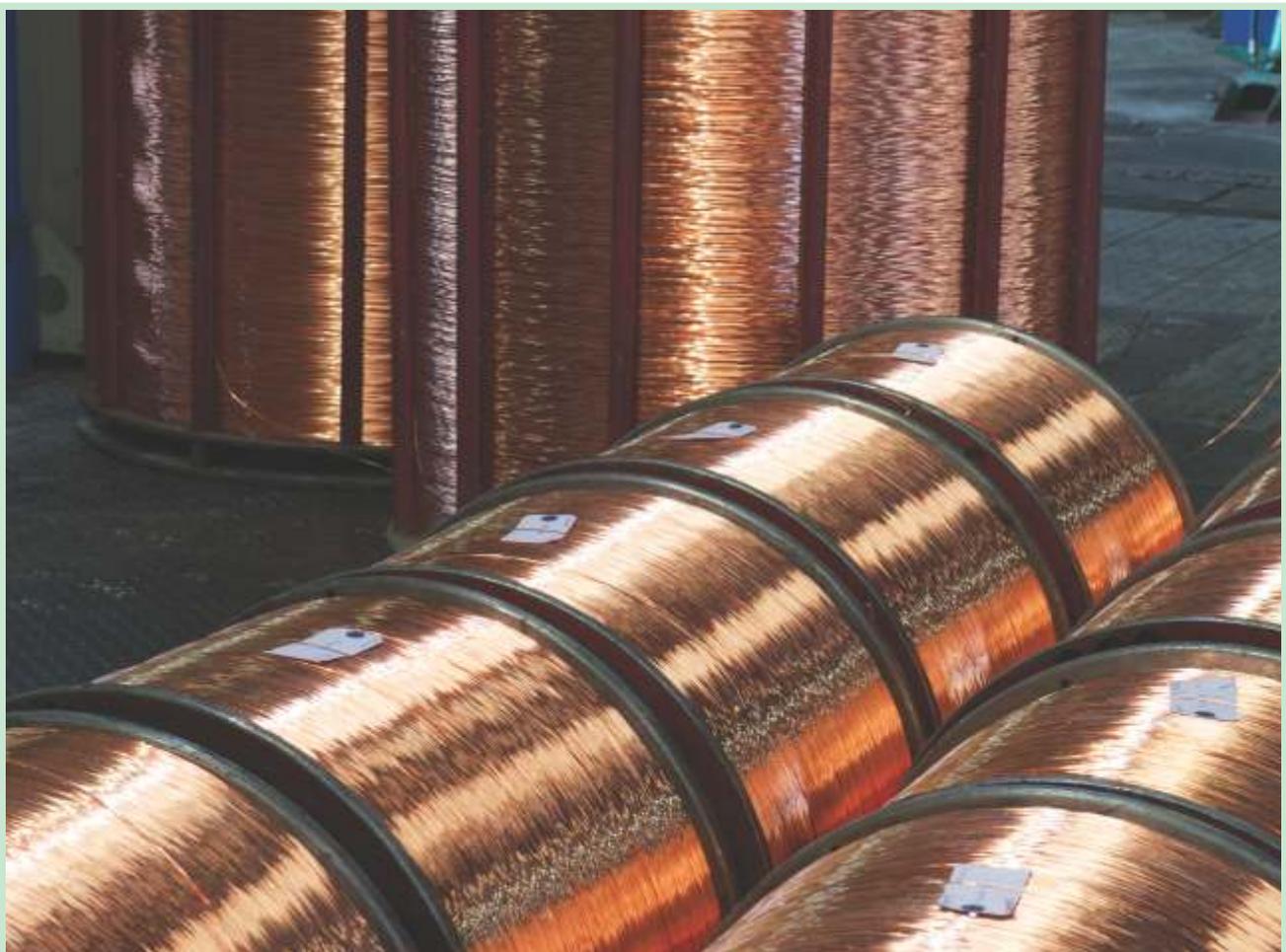
L.V. Power and Control Cables
 4 Core Cable -600/1000 -V
 CU/XLPE/PVC - IEC 60502

Reference Number	Nominal Area of Conductor	Thickness of Insulation	Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)
6185Y	mm ²	mm	Mm	mm	kg/km
	1.5	0.7	1.8	13.0	180
	2.5	0.7	1.8	13.9	235
	4	0.7	1.8	14.7	325
	6	0.7	1.8	16.9	440
	10	0.7	1.8	20.4	665
	16	0.7	1.8	23.4	950
	25	0.9	1.8	28.3	1430
	35	0.9	1.8	31.6	1910
	50	1.0	2.0	36.4	2540
	70	1.1	2.1	42.3	3550



Reference Number	Nominal Area of Conductor		Thickness of Insulation		Thickness of Outer Sheath	Approx. Overall Diameter	Approx. Cable Weight (Cu)
	Phase	Neutral	Phase	Neutral			
	mm ²	mm ²	mm	mm	mm	mm	kg/km
6183 ½ Y	# 10	6	0.7	0.7	1.8	18.1	500
	# 16	10	0.7	0.7	1.8	19.2	705
	25	16	0.9	0.7	1.8	20.5	1060
	35	16	0.9	0.7	1.8	22.6	1350
	50	25	1.0	0.9	1.8	25.7	1910
	70	35	1.1	0.9	1.9	29.4	2600
	95	50	1.1	1.0	2.1	32.8	3500
	120	70	1.2	1.1	2.2	36.3	4530
	150	70	1.4	1.1	2.3	40.6	5420
	185	95	1.6	1.1	2.5	45.1	6750
	240	120	1.7	1.2	2.7	50.2	8900
	300	150	1.8	1.4	2.9	54.3	11000
	300	185	1.8	1.6	2.9	58.2	14280

Circular conductors





Auto & battery cables

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

Single Core PVC Insulated Auto 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	Current Rating Amps
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

AAC-ALL Aluminium Conductors

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 39

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



TABLE -1B								
Code name	Nominal area	Number/ Strand 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
Gnat	--	7/2.21	6.63	26.9	73	4.83	1.0643	124
Mosquito	--	7/2.59	7.770	36.9	101	6.27	0.7749	144
Ladybird	--	7/2.79	8.37	42.8	117	7.28	0.6678	159
Bluebottle	--	7/3.66	10.98	73.6	201	11.78	0.3880	219
Earwig	--	7/3.78	11.34	78.6	215	12.57	0.3638	227
Grasshopper	--	7/3.91	11.73	84.1	230	13.46	0.3400	238
Clegg	--	7/4.17	12.51	95.6	261	15.3	0.2989	256
Beetle	--	19/2.67	13.35	106.4	292	18.08	0.2701	274
Bee	--	7/4.90	14.70	132.0	361	21.12	0.2165	308
Caterpillar	--	19/3.53	17.65	185.9	511	29.75	0.1546	380
Spider	--	19/3.99	19.95	237.6	653	38.01	0.1210	439
Moth	--	19/5.00	25.00	373.1	1025	59.69	0.0770	572
Drone	--	37/3.58	25.06	372.4	1027	59.59	0.0774	572
Maybug	--	37/4.09	28.63	486.1	1340	77.78	0.0593	676
Scorpion	--	37/4.27	29.89	529.8	1461	84.77	0.0544	710
Cicada	--	37/4.65	32.55	628.3	1732	100.54	0.0459	784

Disclaimer

We also manufacture cables to other standards.



All-Aluminium Alloy Conductors (AAAC)

This section deals with heat-treatable magnesium silicon type aluminium alloys to BS EN 50182, the electrical and mechanical properties of which all fall within the values suggested by the International Electrotechnical Commission. Conductors to all other recognized specifications can also be supplied. The alloys referred to have higher strength but lower conductivity than pure aluminium. Being lighter, alloy conductors can sometimes be used to advantage in place of the more conventional ACSR; Having lower breaking loads than the latter, their use becomes particularly favourable when ice and wind loadings are low.

Description

All Aluminium alloy (ALMELEC) conductors, stranded in successive layers to form the stranded AAAC conductor. As per BS 7884 - 1997

Application

Mainly used for overhead lines, in transmission and distribution electrical networks, having relatively long spans. They are also used as a messenger to support overhead electrical cables

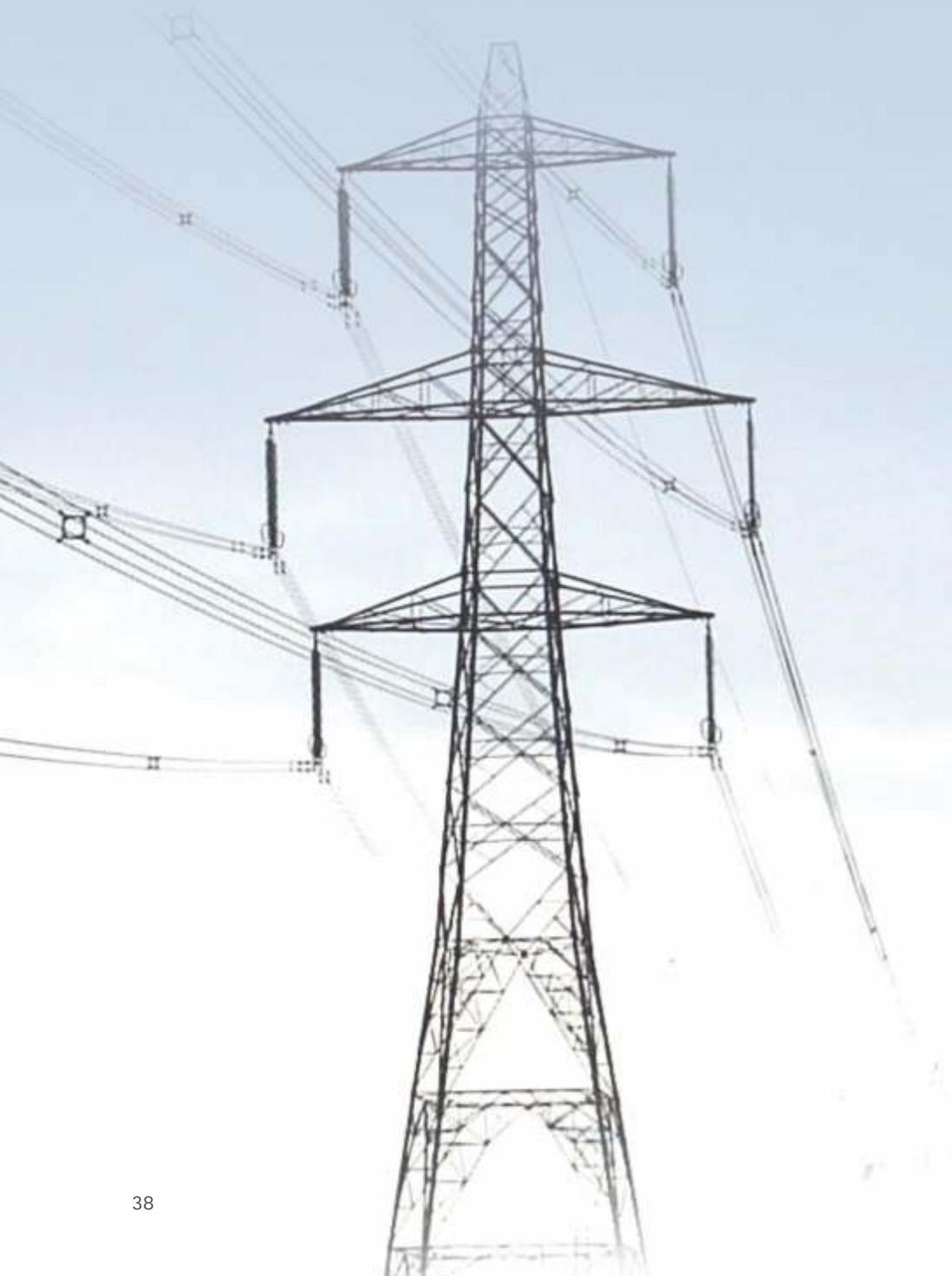


Table 41

All-ALUMINIUM ALLOY CONDUCTORS AAAC					
BS 7884 - 1997					BRITISH SIZES
Nominal Area	Number/Strand Diameter	Approx. Overall Diameter	Nominal Mass	DC Resistance at 20° C	Minimum Breaking Load
mm ²	mm	mm	kg/km	ohm/km	kN
10	7/1.35	4.05	89.82	1.82900	3.752
14	7/1.60	4.80	126.20	1.30300	5.267
16	3/2.65	5.72	148.30	1.10600	6.194
16	7/1.70	5.10	142.40	1.15400	5.946
25	7/2.10	6.30	217.30	0.75630	9.073
32	3/3.75	8.10	296.90	0.55200	12.400
32	7/2.46	7.38	298.20	0.54970	12.442
35	7/2.50	7.50	308.00	0.53370	12.860
50	7/3.00	9.00	443.50	0.37060	18.520
50	19/1.80	9.00	435.80	0.38190	17.700
70	7/3.55	10.65	621.10	0.26460	25.930
70	19/2.10	10.50	593.20	0.28060	24.090
95	19/2.50	12.50	840.70	0.19800	34.140
100	7/4.30	12.90	911.20	0.18100	36.540
120	19/2.80	14.00	1055.00	0.15780	42.830
125	19/2.90	14.50	1131.00	0.14710	45.940
150	19/3.20	16.00	1377.00	0.12080	55.940
150	37/2.25	15.75	1334.00	0.12640	53.880
185	19/3.55	17.75	1695.00	0.09815	68.860
185	37/2.50	17.50	1647.00	0.10240	66.490

Disclaimer

We also do other standards including IEC 61089, BS EN 50182 and others.

Aluminium Conductor Steel Reinforced (ACSR)

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 the protection offered by the 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

Table 42

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				
		mm ²	mm		mm	mm	mm ²				
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

Disclaimer

We also do other constructions on request.

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



Aerial Bundled Cables (overhead cable) (0,6/1kv)

PHASE CONDUCTORS:

Phase conductors made of aluminium wires are circular stranded, rounded and compacted with smooth circular surface. Our products are available 16mm square as solid, 25 to 70mm square 7wired; from 95 mm square to onwards as 19 wired conforming NFC 33-209.

MESSENGER (NEUTRAL) CONDUCTOR:

Bare, round, stranded and compacted aluminium alloy (294 N/mm square).

INSULATION:

Phase conductors of Aerial Bundled Cables are insulated with black coloured or XLPE which are weather resistant.

CORE IDENTIFICATION

Phase conductors two, three and four longitudinal ridges street lighting conductors without ridges.



Table 44

Properties According to NFC 33- 209 (French Standard)

Properties According to NFC 33- 209 (French Standard)										
Description		Conductors					Cable			
Type	Nominal Cross-Section	Number of Wires	Maximum DC Resistance 20°C	Diameter of Conductors		Breaking Load	Current Carrying Capacity	Average Insulation Thickness	Overall Diameter	
	(mm ²)			Pcs	ohm/km				Minimum (mm)	Maximum (mm)
Phases and Public Lighting	16	7	1,91	4,6	5,1	190	70	1,2	7,0	7,8
	25	7	1,20	5,8	6,3	300	90	1,4	8,6	9,4
	35	7	0,868	6,8	7,3	-	115	1,6	10,0	10,9
	50	7	0,641	7,9	8,4	-	140	1,6	11,1	12,0
	70	12	0,443	9,7	10,2	-	180	1,8	13,3	14,2
	95	19	0,320	11,0	12,0	-	215	1,8	14,6	15,7
	120	19	0,253	12,0	13,1	-	250	1,8	15,6	16,7
	150	19	0,206	13,6	15,0	-	290	1,7	17,3	18,6
Neutral Messenger	54,6	7	0,63	9,2	9,6	1660	-	1,6	12,3	13,0
	70	7	0,50	10	10,2	2050	-	1,5	12,9	13,6
	95	19	0,343	12,2	12,9	2750	-	1,6	15,3***	16,3***

***Temporary Values

- DC resistance is maximum

Current carrying capacity and resistance of conductors are valid at +20°C and windless environment conditions. A wind pace of 1m/sec in 65°C ambient temperature causes the conductor to have the current carrying capacity at 35°C

The image shows three spools of copper enamel winding wire. The spools are cylindrical and made of white plastic. They are filled with a dense, tightly wound copper wire that has a bright orange-red enamel coating. The spools are arranged in a slightly overlapping manner, with one in the foreground and two behind it. The background is a plain, light gray surface.

Super Enamel Winding Wire

Super Enamelled Copper Winding Wires

Standard:

The conductors covered under this catalogue are manufactured to BS Specification B.S. 4665 (Part 1). East African Cables can also manufacture to other international standards and to specific customer requirement.

Application:

Enamelled wires are widely used for coils in electric motors and appliances. The mechanical, electrical and chemical properties vary according to the type of enamel used.

Constructions:

The table on the next page shows the properties and uses of enamelled wires and will assist customers to select the suitable type of wire.

ENAMELLED WIRE	CHARACTERISTICS	APPLICATIONS
Polyurethane Enamelled wire	<ol style="list-style-type: none"> 1. Withstand up to 130°C (Class B) 2. Direct soldering at 360°C 3. Super for dielectric property 4. Excellent moisture resistance 5. Good ageing property 	<ol style="list-style-type: none"> 1. For relay coils, transformers and small motors 2. For communication applications
Self Bonding Polyurethane Enamelled wire	<ol style="list-style-type: none"> 1. Bonding temperature 160°C 2. Direct soldering at about 400°C 	<ol style="list-style-type: none"> 1. For TV coils
Polyester Enamelled wire	<ol style="list-style-type: none"> 1. Withstand 155°C (Class F) for a long period of time 2. Good abrasion resistance 3. Very good dielectric strength 4. Good chemical resistance 5. Excellent flexibility 	<ol style="list-style-type: none"> 1. For motor transformer reactors, and electric sets working at high temperature
Polyester-Nylon Enamelled wire	<ol style="list-style-type: none"> 1. Same as above 2. Better protection of Insulation 	<ol style="list-style-type: none"> 1. The same as above 2. For use in high speed winding machine
Modified Polyester Enamelled wire (Polyester-imide)	<ol style="list-style-type: none"> 1. Excellent thermal stability 180°C (Class H) 2. Refrigerant resistance R22 3. Excellent dielectric strength 	<ol style="list-style-type: none"> 1. For motors and dry type transformers 2. For refrigeration and air-conditioners
Polyvinyl Formal Enamelled wire	<ol style="list-style-type: none"> 1. Withstand up to 130°C (Class B) 2. Excellent film adherence flexibility and abrasion resistance 3. High moisture resistance and ageing property 	<ol style="list-style-type: none"> 1. High capacity transformers 2. High voltage motors 3. High speed winding machine
Polyvinyl Formal Nylon Enamelled wire	<ol style="list-style-type: none"> 1. Same as above 2. Better protection of Insulation 	<ol style="list-style-type: none"> 1. The same as above
Modified Polyvinyl Formal-Nylon Enamelled wire	<ol style="list-style-type: none"> 1. Withstand up to 130°C (Class B) 2. Refrigerant resistance (R12, R22) 3. Excellent resistance to chemicals 	<ol style="list-style-type: none"> 1. For refrigerators and air-conditioners 2. For hermetically sealed motors
Aromatic Polyimide Enamelled wire 'Pyre-M.L.' DU PONT	<ol style="list-style-type: none"> 1. Finest thermal stability 2. Excellent dielectrical property Good radiation, solvent, and cryogenic resistance 	<ol style="list-style-type: none"> 1. For coils of motors, generators, transformers and other apparatus operating continuously at temp up to 220°C (Class C)
Polyester-Imide Overcoated with Polyamide-imide	<ol style="list-style-type: none"> 1. Excellent thermal-stability (Class 200°C) 2. Excellent windability 3. Good abrasion resistance and chemical resistance 	<ol style="list-style-type: none"> 1. Used in the coils of motors, transformers, relays etc, in a Class H thermal environment.

Super Enameled Copper Winding Wire

Table 45

Nominal Wire Size in mm	Nearest Gauge No. SWG	Max. Overall Diameter in mm			Standard Packing	
		Grade I	Grade II	Grade III	Nett Weight Approx. Kg	Gross Weight Approx. Kg
3.55	9	3.610	3.702	3.738	25 kg	26.5 kg
3.35	10	3.466	3.498	3.534	25 kg	26.5 kg
3.15	10½	3.263	3.294	3.330	25 kg	26.5 kg
3.00	11	3.110	3.142	3.176	25 kg	26.5 kg
2.80	11½	2.907	2.938	2.972	25 kg	26.5 kg
2.65	12	2.754	2.784	2.819	25 kg	26.5 kg
2.50	12½	2.601	2.631	2.665	25 kg	26.5 kg
2.36	13	2.459	2.488	2.522	25 kg	26.5 kg
2.24		2.336	2.366	2.398	25 kg	26.5 kg
2.12	13½	2.214	2.243	2.275	25 kg	26.5 kg
2.00	14	2.092	2.120	2.152	20 kg	21.3 kg
1.90	14½	1.990	2.018	2.049	20 kg	21.3 kg
1.80	15	1.888	1.916	1.947	20 kg	21.3 kg
1.70	15½	1.785	1.813	1.844	20 kg	21.3 kg
1.60	16	1.683	1.711	1.741	20 kg	21.3 kg
1.50	16½	1.581	1.608	1.638	20 kg	21.3 kg
1.40	17	1.479	1.506	1.535	20 kg	21.3 kg
1.32	17½	1.379	1.423	1.453	20 kg	21.3 kg
1.25	18	1.325	1.351	1.381	20 kg	21.3 kg
1.18	18½	1.254	1.271	1.308	20 kg	21.3 kg
1.12		1.192	1.217	1.246	20 kg	21.3 kg
1.06		1.130	1.155	1.184	10 kg	10.5 kg
1.00	19	1.068	1.093	1.123	10 kg	10.5 kg
0.95	19½	1.017	1.041	1.070	10 kg	10.5 kg
0.90	20	0.965	0.990	1.017	10 kg	10.5 kg
0.85		0.913	0.937	0.964	10 kg	10.5 kg
0.80	21	0.861	0.885	0.911	10 kg	10.5 kg
0.75		0.809	0.832	0.858	10 kg	10.5 kg
0.71	22	0.767	0.790	0.815	10 kg	10.5 kg
0.67		0.726	0.749	0.773	10 kg	10.5 kg

Nominal Wire Size in mm	Nearest Gauge No. SWG	Max. Overall Diameter in mm			Standard Packing	
		Grade I	Grade II	Grade III	Nett Weight Approx. Kg	Gross Weight Approx. Kg
0.63		0.684	0.706	0.730	10 kg	10.5 kg
0.60	23	0.653	0.675	0.699	10 kg	10.5 kg
0.56	24	0.611	0.632	0.656	10 kg	10.5 kg
0.53		0.579	0.601	0.624	10 kg	10.5 kg
0.50	25	0.548	0.569	0.591	10 kg	10.5 kg
0.475		0.522	0.543	0.565	5 kg	5.3 kg
0.450	26	0.495	0.516	0.538	5 kg	5.3 kg
0.425	27	0.469	0.489	0.511	5 kg	5.3 kg
0.400		0.442	0.462	0.483	5 kg	5.3 kg
0.375	28	0.417	0.436	0.456	5 kg	5.3 kg
0.355	29	0.395	0.414	0.435	5 kg	5.3 kg
0.335		0.374	0.393	0.413	5 kg	5.3 kg
0.315	30	0.352	0.371	0.391	5 kg	5.3 kg
0.300	31	0.337	0.355	0.375	5 kg	5.3 kg
0.280	32	0.315	0.334	0.353	5 kg	5.3 kg
0.265		0.300	0.317	0.336	5 kg	5.3 kg
0.250	33	0.284	0.301	0.320	3 kg	3.2 kg
0.236	34	0.269	0.285	0.304	3 kg	3.2 kg
0.224		0.256	0.272	0.290	3 kg	3.2 kg
0.212	35	0.243	0.258	0.275	3 kg	3.2 kg
0.200		0.230	0.245	0.261	3 kg	3.2 kg
0.190	36	0.220	0.234	0.249	3 kg	3.2 kg
0.180		0.209	0.222	0.237	3 kg	3.2 kg
0.170	37	0.198	0.211	0.225	3 kg	3.2 kg
0.160		0.187	0.199	0.213	3 kg	3.2 kg
0.150	38	0.177	0.188	0.201	3 kg	3.2 kg
0.140		0.166	0.176	0.189	3 kg	3.2 kg
0.132	39	0.157	0.167	0.180	3 kg	3.2 kg
0.125	40	0.149	0.159	0.171	3 kg	3.2 kg
0.112	41	0.134	0.143	0.155	3 kg	3.2 kg
0.100	42	0.121	0.129	0.141	3 kg	3.2 kg



Health & Safety at Work

HEALTH & SAFETY

Electric cables

The International standards - IEC 60364 (all parts) and IEC 61557 (all parts) provide regulations on electrical safety including the local country regulations should be met as fully as is reasonable practicable.

Hazards of health and safety associated with the use of electric cables

The products with which this notice is concerned are Electric Cables. As far as we are aware, the correct use of such cables does not give rise to any risk to health.

We do, however, maintain a continuing watch on world developments in the field of cable to ensure that so far as is reasonably practicable our products are so designed and constructed as to be safe and without risk to health when properly used.

It is important that the type of cable specified when ordering is suitable for the intended usage. The Company will be pleased to advise on the most suitable design and protection for the intended operating and environmental conditions. The cables produced by this Company should be installed by, or under the supervision of, competent personnel in accordance with good engineering practice, established codes of practice, statutory requirements and where appropriate in accordance with any instructions specifically advised by the Company.

Disposal of cable scraps by burning

The melting, heating, burning or welding of cables can give rise to certain health and safety risks. During cable jointing and terminating and the disposal of scraps by burning, all reasonable care should be taken to avoid undue concentrations of corrosive and/or toxic fumes. These fumes can arise from the heating of plastic and elastomeric insulating and sheathing compounds, from lead sheaths, and from fluxes, solders and plumbing metal used in jointing operations.

When disposing of cable scraps special attention must be paid to relevant legislation. For example, the burning of cable insulation may be illegal.

Packaging and handling

It will be obvious that in certain circumstances the packaging of cables e.g. large heavy drums, or sharp edges of metal components of cable could constitute a safety hazard and individuals should therefore take care for their own safety when handling these items. The springing of the steel binding straps or the dangers arising from projecting nails used to retain battens around the drums or containers are particular examples to which we would draw your attention.

Appropriate information on the proper use and handling of our cables, is made available to all those concerned. Similarly, this information must be available to anyone who may purchase or otherwise acquire from you such products for use in his own workplace. If exceptionally any specific hazard is associated with a particular cable, advice on the necessary precautions will be provided.

SAFE HANDLING & STORAGE

It is recommended that the safety rules relative to handling and storage of cable drums at any establishment should follow the guidance given here unless equivalent or better practices are already in force.

General principles

The following general principles should govern handling operations:

- Lifting and transporting devices should only be used within their rated (safe working load - SWL) capacity.
- Professional approval should be sought before any lifting or transporting device is used for a purpose for which it was not originally intended.
- Before transporting any object, first ensure it is properly stacked and secured - taking into consideration its nature, the construction of the transport and the journey to be made. Rough or uneven surfaces create extra hazards.
- Where a load is unusual and likely to need special care, ensure all precautions are properly checked and adequately supervised before the load is allowed to move.
- Only authorised personnel should be permitted to use any lifting or transporting devices. Where there is a legal requirement or when driving certain types of equipment or transport, the personnel should be certified or licensed. Typical examples are fork lift truck and crane drivers.
- The use of unauthorised equipment for handling, lifting or transporting cable drums should be prohibited.
- Under no circumstances should case grabs be used for lifting cable drums.

Handling and rolling of drums

Operatives should be properly instructed in the safe rolling of drums, both full and empty, i.e.:

- Always keep a look-out.
- Always push in the direction of travel.
- Never pull with your back to the direction of travel.
- When pushing drums, wearing stout gloves is advised.
- Wherever possible, use a turntable to change the direction of travel. Turntables should be relocked after use. Other methods should only be used if they constitute a safe working practice and the operatives involved have been trained accordingly.
- Take special care to ensure drum movement is always under control on a ramp.
- Avoid rolling drums on inclines where the drum cannot be adequately controlled.
- Under no circumstances should a drum be pushed and then released so that it travels uncontrolled.
- Drums marked 'Roll this way' should always be rolled in the direction indicated.
To avoid the operative having to stoop, small drums and bobbins should be rolled with a suitable runner. A runner is an L-shaped bar approximately 1.2 m (4 ft) long with a loop handle at the top of the upright. The cross-piece is inserted into the spindle hole of the drum/bobbin (but should not protrude so far out that it becomes a hazard).
Ensure that only authorised equipment is used when rolling drums. DIY equipment should be prohibited.

Battens and lags

The use of strapping or tape to fix battens around drums requires special care. One method of restraining the strapping or tape is the use of a slipping rope strap around the strapping or tape. If it is necessary to remove the strapping or tape then, to prevent lashing or springing ends causing injury, a special tool which holds the two ends of the strapping or tape should be used. Eye and hand protection should be worn when handling or cutting strapping or tape. Protruding nails/staples in timbers or battens should be removed during removal of the battens/lags from a drum.

Drum storage

Cable drums for storage should be securely chocked at floor level, taking into account the following factors. In deciding upon storage areas and methods of stacking, consideration should be given to the evenness and firmness of the ground, the sizes and weights of the drums and the need to prevent any unintended movement when stored. Account should be taken of environmental conditions that may affect the surface of the ground, the serviceability of the drums, battens or chocks and, if applicable, the stability of drum stacks.

When drums are stacked:

- Drums of cable should not be stored or stacked with their flanges in the horizontal position.
- Where drums are stacked vertically, upper layers should rest in the valleys of the flanges in the layer below.
- Where drums are stacked two or more high, every drum on the ground should be chocked on either side.
- The stability of stacks should be checked periodically.

A system of inspection should be implemented to ensure that empty drums are fit for their next intended use. As drums stored in the open may deteriorate over a period of time, a similar system of inspection should be followed. Any drums that have deteriorated to a point that makes them unfit for use should be disposed of in a safe manner. If they have been manufactured from chemically treated timber, disposal should be through a licensed waste disposal contractor.

Figure 1
Handling Drums

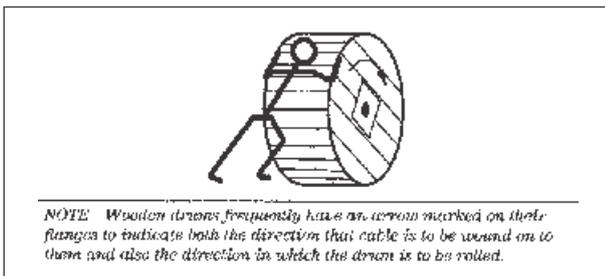


Figure 2
Correct Drum Storage

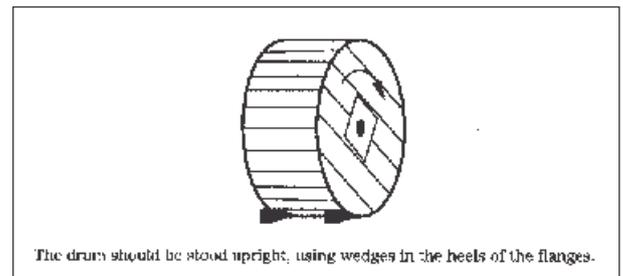


Figure 3
Incorrect Drum Storage

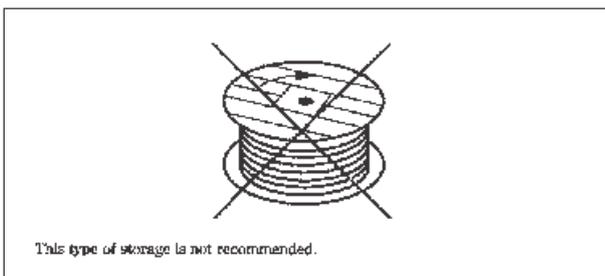


Figure 4
Drum Storage - View from the top

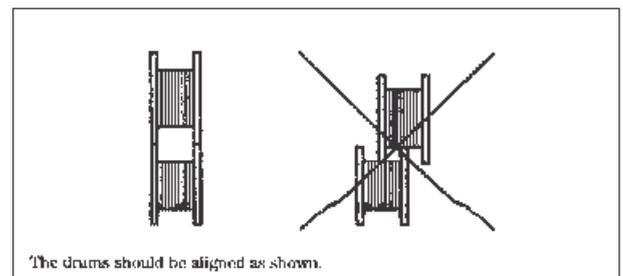


Figure 5 - Lifting by Crane

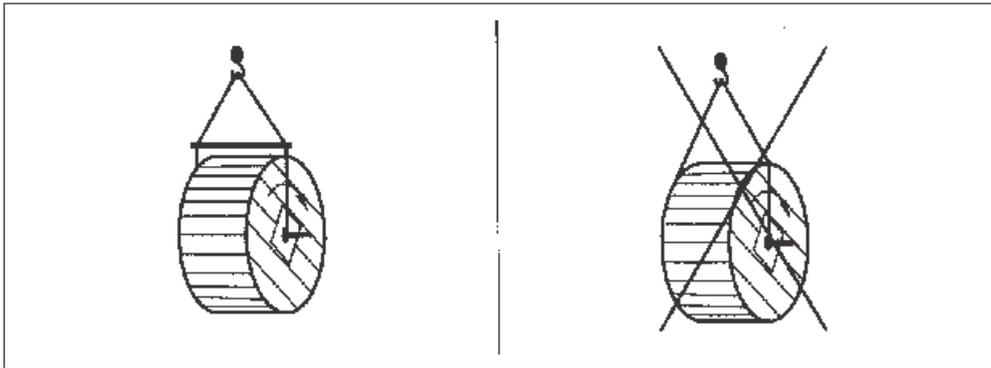


Figure 6 - Lifting by Fork Lift Trucks

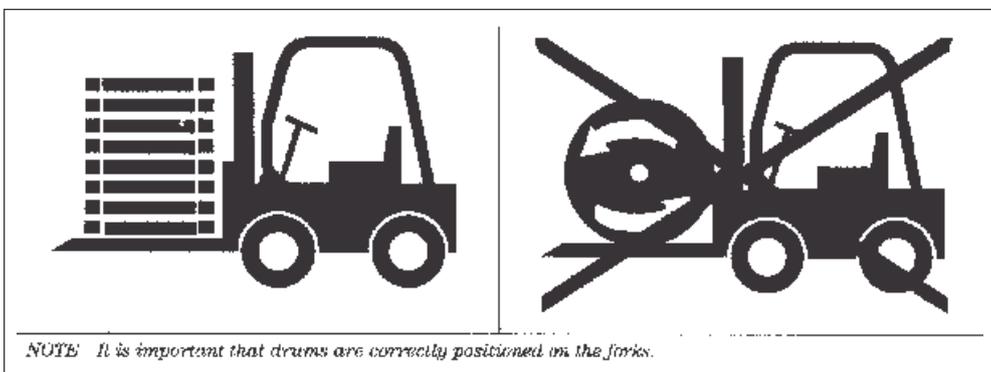


Figure 7 - Unwinding Cable

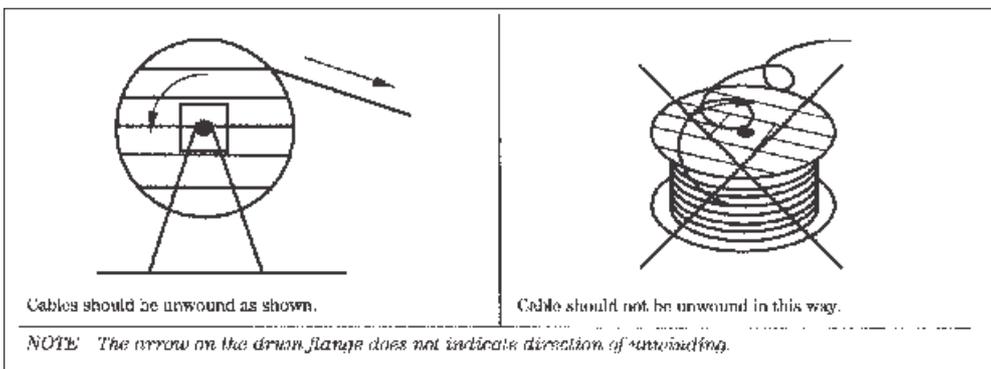
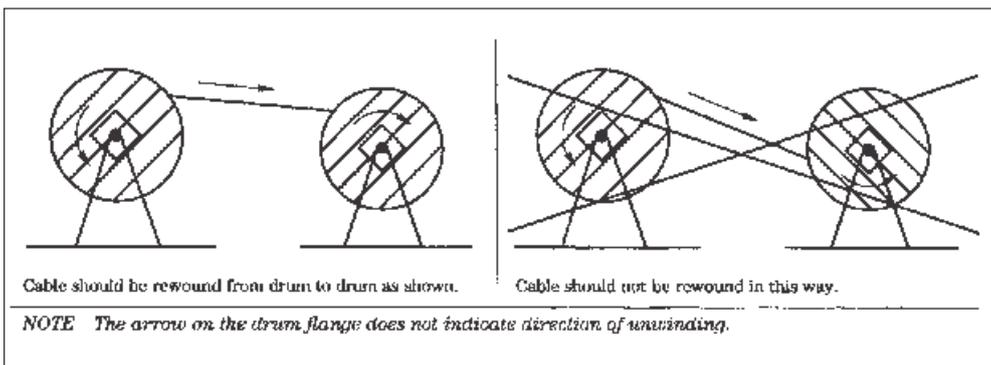


Figure 8 - Rewinding Cable





Cable Reference



Electrical Characteristics XLPE/PVC/AWA/PVC
Current Carrying Capacity (amperes)

Conductor cross sectional area mm ²	Reference method C (clipped direct) Amps		Reference Method E (in free air or on perforated cable tray, horizontal or vertical) Amps		Reference Method D (Direct in ground or in ducting in ground, in or around buildings) Amps	
	1 Two core cable single phase AC or DC	1 Three core or 1 Four core cable Three phase AC	1 Two core cable single phase AC or DC	1 Three core or 1 Four core cable Three phase AC	1 Two core cable single phase AC or DC	1 Three core or 1 Four core cable Three phase AC
1	2	3	4	5	6	7
1.5	27	23	29	25	25	21
2.5	36	31	39	33	33	28
4.0	49	42	52	44	43	36
6.0	62	53	66	56	53	44
10.0	85	73	90	78	71	58
16.0	110	94	115	99	91	75
25.0	146	124	152	131	116	96
35.0	180	154	188	162	139	115
50.0	219	187	228	197	164	135
70.0	279	238	291	251	203	167
95.0	338	289	354	304	239	197
120.0	392	335	410	353	271	223
150.0	451	386	472	406	306	251
185.0	515	441	539	463	343	281
240.0	607	520	636	546	395	324
300.0	698	599	732	628	446	365
400.0	787	673	847	728	–	–

Air Ambient temperature: 30°C
Ground ambient temperature: 20°C
Conductor operating temperature: 90°C

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature.
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current rating given in the equivalent table for 70°C thermoplastic insulated cables

The above table is in accordance with table 4E4A of the 17th Edition of IEE wiring regulations

Voltage Drop (per ampere per metre)

Conductor Cross Sectional Area mm ²	Two Core Cable DC	Two Core Cable Single Phase AC mV/A/m			Three or Four Core Cable Three Phase AC mV/A/m		
1	2	3			4		
1.5	31.0	31.0			27.0		
2.5	19.0	19.0			16.0		
4.0	12.0	12.0			10.0		
6.0	7.9	7.9			6.8		
10.0	4.7	4.7			4.0		
16.0	2.9	2.9			2.5		
		r	x	z	r	x	y
25.0	1.85	1.85	0.16	1.9	1.6	0.14	1.65
35.0	1.35	1.35	0.155	1.35	1.15	0.135	1.15
50.0	0.98	0.99	0.155	1.0	0.86	0.135	0.87
70.0	0.67	0.67	0.15	0.69	0.59	0.13	0.6
95.0	0.49	0.5	0.15	0.52	0.43	0.13	0.45
120.0	0.39	0.4	0.145	0.42	0.34	0.13	0.37
150.0	0.31	0.32	0.145	0.35	0.28	0.125	0.3
185.0	0.25	0.26	0.145	0.29	0.22	0.125	0.26
240.0	0.195	0.2	0.14	0.24	0.175	0.125	0.21
300.0	0.155	0.16	0.14	0.21	0.14	0.12	0.185
400.0	0.12	0.13	0.14	0.19	0.115	0.12	0.165

Conductor operating temperature: 90°C
 Spacing larger than one cable diameter will result in a larger voltage drop.

The above table is in accordance with Table 4E3B of the 17th Edition of IEE Wiring Regulations. For cables having conductors of 16mm² or less cross-sectional area, their inductances can be ignored and (mV/A/m)_r values only are tabulated. For cables having conductors greater than 16mm², cross-sectional area the impedance values are given as (mV/A/m)_r, together with the resistive component (mV/A/m)_r and the reactive component (mV/A/m)_x.

The above paragraph is extracted from Appendix 4 of the 17th Edition of IEE Wiring Regulations.

Electrical Characteristics XLPE/PVC/AWA/PVC
Current Carrying Capacity (amperes)

Conductor cross sectional area	2 cables single phase AC or DC flat	3 or 4 Cables Three phase AC Flat amps	2 Cables Single Phase AC or DC Flat Amps	3 cables Three Phase AC Flat Amps	3 cables Three Phase AC Trefoils Amps	2 Cables DC Amps		2 Cables Single Phase AC Amps		3 or 4 cables Three Phase AC Amps	
1	2	3	4	5	6	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	322	293	285	356	349	357	337	358	331
95	367	333	389	352	346	446	426	436	412	425	393
120	425	383	449	405	402	519	497	504	477	485	449
150	488	437	516	462	463	600	575	566	539	549	510
185	557	496	587	524	529	688	660	643	614	618	574
240	656	579	689	612	625	815	782	749	714	715	666
300	755	662	792	700	720	943	906	842	805	810	755
400	853	717	899	767	815	1137	1094	929	889	848	797
500	962	791	1016	851	918	1314	1266	1032	989	923	871
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041

Ambient temperature: 30°C

Conductor operating temperature: 90°C

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature.
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current rating given in the equivalent table for 70°C thermoplastic insulated cables

Voltage Drop (per ampere per metre)

Reference method C & F
(Clipped direct, on tray or in free air)

Conductor Cross Sectional Area mm ²		2 Cables Single Phase AC Mv/A/m						3 or 4 Cables Three Phase AC mV/A/m								
1	2	Touching			Spaced			Trefoll and Touching			Flat and Touching			Flat and spaced		
		3	4	5	6	7	8	9	10	11	12	13	14	15		
		r	x	z	r	x	z	r	x	z	r	x	z	r	x	z
50	0.98	0.990	0.210	1.000	0.980	0.29	1.00	0.860	0.180	0.870	0.840	0.250	0.88	0.840	0.330	0.90
70	0.67	0.680	0.200	0.710	0.690	0.29	0.75	0.590	0.170	0.620	0.600	0.250	0.65	0.620	0.320	0.70
95	0.49	0.510	0.195	0.550	0.530	0.28	0.60	0.440	0.170	0.470	0.460	0.240	0.52	0.490	0.310	0.58
120	0.39	0.410	0.190	0.450	0.430	0.27	0.51	0.350	0.165	0.390	0.380	0.240	0.44	0.410	0.300	0.51
150	0.31	0.330	0.185	0.380	0.360	0.27	0.45	0.290	0.160	0.330	0.310	0.230	0.39	0.340	0.290	0.45
185	0.25	0.270	0.185	0.330	0.300	0.26	0.40	0.230	0.160	0.280	0.260	0.230	0.34	0.290	0.290	0.41
240	0.195	0.210	0.180	0.280	0.240	0.26	0.35	0.180	0.155	0.240	0.210	0.220	0.30	0.240	0.280	0.37
300	0.155	0.170	0.175	0.250	0.195	0.25	0.32	0.145	0.150	0.210	0.170	0.220	0.28	0.200	0.270	0.34
400	0.115	0.145	0.170	0.220	0.180	0.24	0.30	0.125	0.150	0.195	0.160	0.210	0.27	0.270	0.270	0.33
500	0.093	0.125	0.170	0.210	0.165	0.24	0.29	0.105	0.145	0.180	0.145	0.200	0.25	0.240	0.240	0.31
630	0.073	0.105	0.165	0.195	0.150	0.23	0.27	0.092	0.145	0.170	0.135	0.195	0.24	0.230	0.230	0.29
800	0.056	0.090	0.160	0.190	0.145	0.23	0.27	0.086	0.140	0.165	0.130	0.180	0.23	0.195	0.195	0.26
1000	0.045	0.092	0.155	0.180	0.140	0.21	0.25	0.080	0.135	0.155	0.125	0.170	0.21	0.180	0.180	0.24

Conductor operating temperature: 90°C

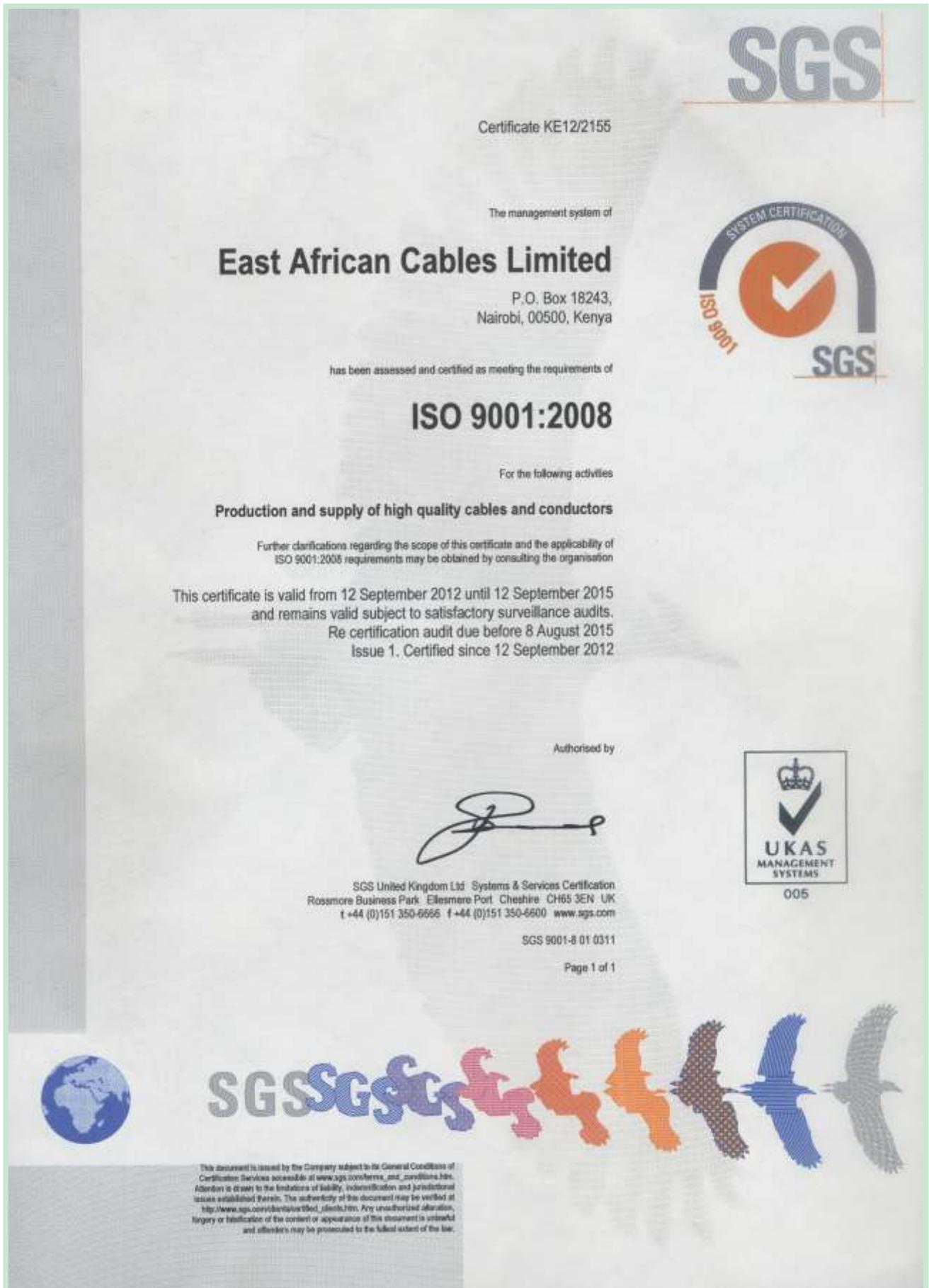
Spacing larger than one cable diameter will result in a larger voltage drop.

The above table is in accordance with Table 4E3B of the 17th Edition of IEE Wiring Regulations.

For cables having conductors of 16mm² or less cross-sectional area, their inductances can be ignored and (mV/A/m)_r values only are tabulated. For cables having conductors greater than 16mm², cross-sectional area the impedance values are given as (mV/A/m)_r, together with the resistive component (mV/A/m)_r and the reactive component (mV/A/m)_x.

The above paragraph is extracted from Appendix 4 of the 17th Edition of IEE Wiring Regulations.

CERTIFICATIONS



Certificate TZ10/2012

SGS

The management system of

**East African Cables (Tanzania)
Ltd**

P.O.Box 508 Dar-es-Salaam, Tanzania



has been assessed and certified as meeting the requirements of

ISO 9001:2008

For the following activities

**Manufacture of Power Cables, Aluminium Conductors, Building Wires
and Enamelled Wires.**

Further clarifications regarding the scope of this certificate and the applicability of
ISO 9001:2008 requirements may be obtained by consulting the organization

This certificate is valid from 20 May 2010 until 20 May 2013
Re certification audit due before 10 May 2013
Issue 1. Certified since December 1999

Authorised by



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Page 1 of 1



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PERMIT TO USE THE DIAMOND MARK OF QUALITY
THE STANDARDS ACT (CAP. 496)

PERMIT IS GRANTED TO:

NAME OF FIRM: **EAST AFRICAN CABLES LTD** PERMIT NO. **873**
EFFECTIVE FROM **2010-10-08**

POSTAL ADDRESS: **P.O. BOX 18243 00500 NAIROBI** EXPIRES ON **2013-10-08**

PHYSICAL ADDRESS: **KITUI RD & ADDIS ABABA RD** DATE OF ISSUE **2010-10-08**

To see the Diamond mark of quality specified in the first column of the appendix hereunder upon and in respect of the commodity and brand specified in the second and third column, those of which conform to the standard specification in the fourth column.

APPENDIX

1	2	3	4
DIAMOND MARK OF QUALITY	DESCRIPTION OF THE COMMODITY UPON WHICH THE DIAMOND MARK IS TO BE USED	BRAND NAME	STANDARD SPECIFICATION OF THE COMMODITY
	PVC INSULATED CABLES (NON-ARMOURED)	EAST AFRICAN CABLES	KS 450: KENYA STANDARD SPECIFICATION FOR PVC INSULATED CABLES (NON ARMOURED) FOR ELECTRIC POWER AND LIGHTING

NOTE: 1. EVERY DIAMOND MARK HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED.
2. THE PERMIT IS VALID SUBJECT TO THE CONDITIONS OF USE IN THE CONTRACT FOR USE OF THE DIAMOND MARK OF QUALITY.

MANAGING DIRECTOR / AUTHORIZED OFFICER
KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

Car-01

PERMIT TO USE THE DIAMOND MARK OF QUALITY
THE STANDARDS ACT (CAP. 496)

PERMIT IS GRANTED TO:

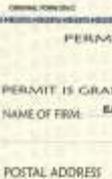
NAME OF FIRM: **EAST AFRICAN CABLES LTD** PERMIT NO. **400**
EFFECTIVE FROM **2010-10-08**

POSTAL ADDRESS: **P.O. BOX 18243 00500 NAIROBI** EXPIRES ON **2013-10-08**

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To see the Diamond mark of quality specified in the first column of the appendix hereunder upon and in respect of the commodity and brand specified in the second and third column, those of which conform to the standard specification in the fourth column.

APPENDIX

1	2	3	4
DIAMOND MARK OF QUALITY	DESCRIPTION OF THE COMMODITY UPON WHICH THE DIAMOND MARK IS TO BE USED	BRAND NAME	STANDARD SPECIFICATION OF THE COMMODITY
	PVC INSULATED FLEXIBLE CABLES	EAST AFRICAN CABLES	KS 04-150: KENYA STANDARD SPECIFICATION FOR PVC INSULATED FLEXIBLE CABLES AND CORDS OF RATED VOLTAGE UP TO AND INCLUDING 150V (SECOND EDITION)

NOTE: 1. EVERY DIAMOND MARK HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED.
2. THE PERMIT IS VALID SUBJECT TO THE CONDITIONS OF USE IN THE CONTRACT FOR USE OF THE DIAMOND MARK OF QUALITY.

MANAGING DIRECTOR / AUTHORIZED OFFICER
KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

Car-01

PERMIT TO USE THE DIAMOND MARK OF QUALITY
THE STANDARDS ACT (CAP. 496)

PERMIT IS GRANTED TO:

NAME OF FIRM: **EAST AFRICAN CABLES LTD** PERMIT NO. **887**
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APPENDIX

1	2	3	4
DIAMOND MARK OF QUALITY	DESCRIPTION OF THE COMMODITY UPON WHICH THE DIAMOND MARK IS TO BE USED	BRAND NAME	STANDARD SPECIFICATION OF THE COMMODITY
	PVC INSULATED CABLES (ARMOURED)	EAST AFRICAN CABLES	KS 04-150: KENYA STANDARD SPECIFICATION FOR PVC INSULATED CABLES (ARMOURED) FOR ELECTRICITY SUPPLY

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2. THE PERMIT IS VALID SUBJECT TO THE CONDITIONS OF USE IN THE CONTRACT FOR USE OF THE DIAMOND MARK OF QUALITY.

MANAGING DIRECTOR / AUTHORIZED OFFICER
KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

Car-01

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