

FLAME RETARDANT PVC INSULATED ARMoured CABLES

STANDARD:
BS 6346, KS 04-194

APPLICATION:
The cables are used for:

- Electricity supply and wiring for remote control and telemetry circuits etc.;
- Clipped to surface on trays or in free air;
- Laid direct in the ground or in ducts;
- Embedded in concrete.

CONSTRUCTION:
Multi-core cables. Solid or stranded plain copper conductors, PVC insulated, Cores laid up, Extruded PVC bedding and galvanized steel wire armoured PVC sheathed.

CORE COLOURS:
Single Core: Black or Red.
Two Core: Black and Red.
Three Core: Blue, Red and Yellow.
Four Core: Black, Blue, Red and Yellow.
Five Core: Black, Blue, Green/Yellow, Red and Yellow.

SHEATH COLOURS:
Black or any other colours.

VOLTAGE:
600/1000V

Maximum conductor temperature: 70°C



SINGLE CORE 600/1000V B.S. 6346 KS 04-194							
Nominal Area of Conductor	Insulation Thickness	Extruded Bedding Thickness	Aluminum Armour Wire Diameter	Outer Sheath Thickness	Approx. Cable Weight	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	mm	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	1.60	1.7	26.3	1600	960
150	1.8	1.0	1.60	1.7	28.3	1900	1115
185	2.0	1.0	1.60	1.8	30.8	2450	1315
240	2.2	1.0	1.60	1.9	34.1	3100	1610
300	2.4	1.0	1.60	1.9	37.0	3760	1890
400	2.6	1.2	2.00	2.1	42.0	4850	2455
500	2.8	1.2	2.00	2.1	45.6	5930	2945
630	2.8	1.2	2.00	2.2	49.7	7390	3495
800	2.8	1.4	2.50	2.4	55.8	9400	4210
1000	3.0	1.4	2.50	2.5	61.0	11430	4870

ORIGINAL FORM 04/2

PERMIT TO USE THE STANDARDIZATION MARK 43352

THE STANDARDS ACT (CAP 496 OF THE LAWS OF KENYA)

PERMIT IS GRANTED TO: ASL LTD - WIRE & CABLE DIVISION

NAME OF FIRM: ASL LTD - WIRE & CABLE DIVISION

STANDARDIZATION MARK NO.: 19583

POSTAL ADDRESS: P.O BOX 18778 NAIROBI 00500

EFFECTIVE FROM: 2014-10-15

PHYSICAL ADDRESS: mombasa road

EXPIRES ON: 2015-10-14

TELEPHONE NO.: 0738714444

FAX NO.:

DATE OF ISSUE: 2014-10-15

E-MAIL ADDRESS: info@aslcables.co.ke

to use the standardization mark specified in the first row hereunder upon and in respect of the commodity and brand specified in the second and third rows there of, which commodity, conform to the standard specification in the fourth row.

1 STANDARDIZATION MARK:  

2 DESCRIPTION OF THE COMMODITY UPON WHICH THE STANDARDIZATION MARK IS TO BE USED: PVC INSULATED ARMoured CABLES

3 BRAND NAME: ASL

4 STANDARD SPECIFICATION (Number and Title): KS 04-194. Kenya Standard Specification for PVC insulated cables for electricity supply (Third Edition).

NOTE: 1. EVERY PERMIT HOLDER SHALL PAY AN ANNUAL FEE IN RESPECT OF EACH PERMIT GRANTED OR RENEWED. 2. THIS PERMIT IS ISSUED SUBJECT TO THE CONDITIONS SET OUT OVER LEAF.

MANAGING DIRECTOR / AUTHORIZED OFFICER: 

KENYA BUREAU OF STANDARDS

 Kenya Bureau of Standards

TWO CORE CABLES 600/1000V B.S. 6346 KS 04-194							
Nominal Area of Conductor	Insulation Thickness	Extruded Bedding Thickness	Aluminum Armour Wire Diameter	Outer Sheath Thickness	Approx. Cable Weight	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	mm	kg/km
1.50	0.6	0.8	0.90	1.4	12.3	270	-
2.50	0.7	0.8	0.90	1.4	13.6	350	-
4	0.8	0.8	0.90	1.4	15.1	470	-
6	0.8	0.8	0.90	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	1.60	1.7	23.0	1480	1170
35	1.2	1.0	1.60	1.8	24.8	1770	1340
50	1.4	1.0	1.60	1.9	27.8	1900	1450
70	1.4	1.0	1.60	1.9	30.4	2430	1560
95	1.6	1.2	2.00	2.1	35.5	2970	2200
120	1.6	1.2	2.00	2.2	38.0	3970	2480
150	1.8	1.2	2.00	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

THREE CORE CABLES 600/1000V B.S. 6346 KS 04-194							
Nominal Area of Conductor	Insulation Thickness	Extruded Bedding Thickness	Aluminum Armour Wire Diameter	Outer Sheath Thickness	Approx. Cable Weight	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	mm	kg/km
1.50	0.6	0.8	0.9	1.4	12.8	307	-
2.50	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	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

FOUR CORE CABLES 600/1000V B.S. 6346 KS 04-194							
Nominal Area of Conductor	Insulation Thickness	Extruded Bedding Thickness	Aluminum Armour Wire Diameter	Outer Sheath Thickness	Approx. Cable Weight	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	mm	kg/km
1.50	0.6	0.8	0.9	1.4	13.5	330	
2.50	0.7	0.8	0.9	1.5	15	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

THREE AND A HALF CORE WITH REDUCED NEUTRAL 600/1000V B.S. 6346 KS 04-194															
Nominal Area of Conductor		Insulation Thickness		Extruded Bedding Thickness		Aluminum Armour Wire Diameter		Outer Sheath Thickness		Approx. Cable Weight		Approx. Cable Weight (Cu)		Approx. Cable Weight (Al)	
Phase	Neutral	Phase	Neutral												
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km	kg/km	kg/km
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						

FIVE CORE CABLES 600/1000V B.S. 6346 KS 04-194						
Nominal Area of Conductor	Insulation Thickness	Extruded Bedding Thickness	Aluminum Armour Wire Diameter	Outer Sheath Thickness	Approx. Cable Weight (Cu)	Approx. Cable Weight (Al)
mm ²	mm	mm	mm	mm	mm	kg/km
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

