



## Contact Us:

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## BS 6346 PVC Insulated Cables, 600/1000V

### Applications

These power and control cables are used for electricity supply in low voltage installation system. They are well adapted to underground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...).

### Construction

Conductor	Solid Aluminum or Copper conductor, round stranded or shaped, Class 2 to BS 6460, IEC 60228.
Insulation	PVC(Polyvinyl Chloride) type TI1
Colour Code	1 Core : Brown
	2 Cores: Brown or Blue
	3 Cores: Brown, Black, Grey
	4 Cores: Blue, Brown, Black, Grey
	5 Cores: Green-yellow, Blue, Brown, Black, Grey
	Above 5 Cores: White Cores with black numbers
Filler(optional)	PVC or Polypropylene yarn
Binder Tape(optional)	Polyester (Mylar) tape
Inner Sheath/ Bedding	PVC (Polyvinyl Chloride)
Armour	Single Core: AWA (Aluminum Wire Armour)
	Multi Core: SWA (Steel Wire or Tape Armour)
Outer Sheath	PVC(Polyvinyl Chloride), type TM1

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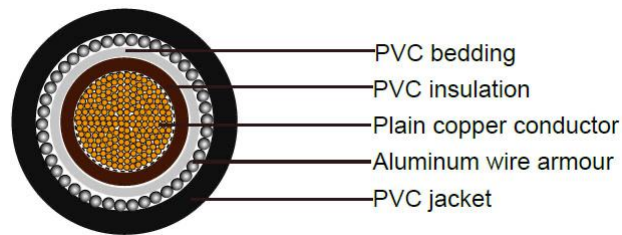
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**Technical Information**

Voltage rating	600/1000V
Temperature rating	-20°C to + 60°C
Bending radius	Single core: 10 x overall diameter Multicores: 8 x overall diameter
Flame retardant	IEC60332 part 1, BS4066 part 1

**Cable Parameter**

Single-core 600/1000V cables with circular stranded copper conductor



Nominal cross-sectional area	Number/wire	Nominal insulation thickness	Nominal Bedding thickness	Nominal alum wire armor dia.	Nominal sheath thickness	Approx. overall diameter	Approx. cable weight
mm	No./mm	mm	mm	mm	mm	mm	kg/km
1x50	19/1.78	1.4	0.8	1.25	1.5	19.1	820
1x70	19/2.14	1.4	0.8	1.25	1.6	21.1	1070
1x95	19/2.52	1.6	0.8	1.25	1.6	23.4	1390
1x120	37/2.03	1.6	1.0	1.6	1.7	26.3	1600
1x150	37/2.25	1.8	1.0	1.6	1.7	28.3	1900
1x185	37/2.52	2.0	1.0	1.6	1.8	30.8	2450
1x240	61/2.25	2.2	1.0	1.6	1.9	34.1	3100
1x300	61/2.52	2.4	1.0	1.6	1.9	37.0	3760

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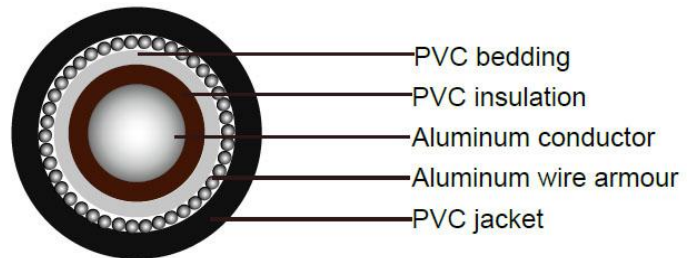
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1x400	61/2.85	2.6	1.2	2.0	2.1	42.0	4850
1x500	61/3.20	2.8	1.2	2.0	2.1	45.6	5930
1x630	61/3.65	2.8	1.2	2.0	2.2	49.7	7390
1x800	127/2.85	2.8	1.4	2.5	2.4	55.8	9400
1x1000	127/3.20	3.0	1.4	2.5	2.5	61.0	11430

Single-core 600/1000V cables with solid aluminum conductor



Nominal cross-sectional area	Nominal insulation thickness	Nominal bedding thickness	Nominal alum wire armor dia.	Armour strip		Nominal sheath thickness	Approx. over all diameter		Approx. cable weight
				thickness	width		wire armor	strip armor	
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
1x50	1.4	0.8	1.25	0.6	2.4	1.5	17.8	16.5	530
1x70	1.4	0.8	1.25	0.6	2.4	1.6	19.6	18.3	650
1x95	1.6	0.8	1.25	0.6	2.4	1.6	21.7	20.4	810
1x120	1.6	1	1.6	0.6	2.4	1.7	24.3	22.3	960
1x150	1.8	1	1.6	0.6	2.4	1.7	26.1	24.1	1115
1x185	2	1	1.6	1	3.6	1.8	28.3	27.1	1315
1x240	2.2	1	1.6	1	3.6	1.9	31.2	30	1610
1x300	2.4	1	1.6	1	3.6	1.9	33.7	32.5	1890

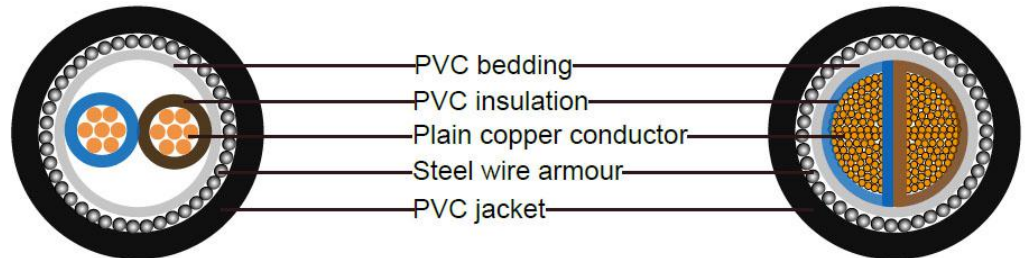
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Two-core 600/1000V cables  
with stranded copper  
conductors



Nominal cross-sectional area	Number / wire	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armor dia.	Nominal sheath thickness	Approx. overall diameter		Approx. cable weight
						extruded bedding	taped bedding	
mm	No./mm	mm	mm	mm	mm	mm	mm	kg/mm
2x1.5	7/0.53	0.6	0.8	0.9	1.4	12.3	-	270
2x2.5	7/0.67	0.7	0.8	0.9	1.4	13.6	-	350
2x4	7/0.85	0.8	0.8	0.9	1.4	15.1	-	470
2x6	7/1.04	0.8	0.8	0.9	1.5	16.5	-	580
2x10	7/1.35	1.0	0.8	1.25	1.6	20.1	-	840
2x16	7/1.70	1.0	0.8	1.25	1.6	21.9	21.9	990
2x25	7/2.14	1.2	1.0	1.6	1.7	26.7	26.3	1480
2x25*	7/2.14	1.2	1.0	1.6	1.7	23.0	22.6	1480
2x35	19/1.53	1.2	1.0	1.6	1.8	29.2	28.8	1770
2x35*	19/1.53	1.2	1.0	1.6	1.8	24.8	24.4	1770
2x50*	19/1.78	1.4	1.0	1.6	1.9	27.8	27.4	1900
2x70*	19/2.14	1.4	1.0	1.6	1.9	30.4	30.0	2430
2x95*	19/2.52	1.6	1.2	2.0	2.1	35.5	34.7	2970

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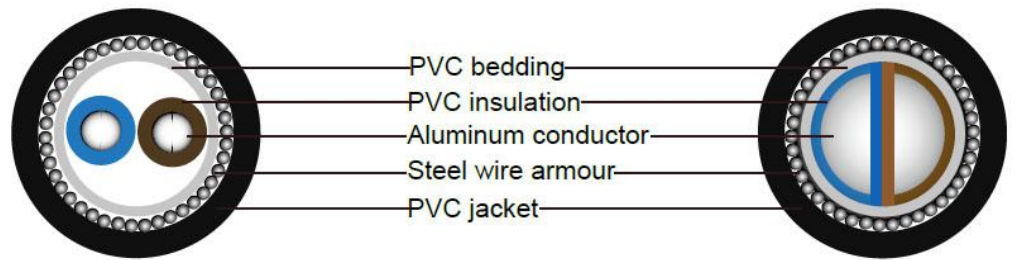
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2x120*	37/2.03	1.6	1.2	2.0	2.2	38.0	37.2	3970
2x150*	37/2.25	1.8	1.2	2.0	2.3	41.3	40.5	4700
2x185*	37/2.52	2.0	1.4	2.5	2.4	46.4	45.2	5990
2x240*	61/2.25	2.2	1.4	2.5	2.5	51.2	50.0	7420
2x300*	61/2.52	2.4	1.6	2.5	2.7	56.4	54.8	8950
2x400*	61/2.85	2.6	1.6	2.5	2.9	61.9	60.3	11030

\*Shaped stranded conductor (class 2)

Two-core 600/1000V cables  
with solid aluminum  
conductors



Nominal cross-sectional area	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armor dia.	Armour strip		Nominal sheath thickness	Approx. overall diameter			Approx. cable weight
				thickness	width		wire armor		strip armor	
							extruded bedding	taped bedding		
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
2x16	1	0.8	1.25	0.6	2.4	1.6	20.6	20.6	19.3	795
2x25	1.2	1	1.6	0.6	2.4	1.7	25	24.6	22.6	1170
2x25*	1.2	1	1.6	0.6	2.4	1.7	21.3	20.9	18.9	1170
2x35	1.2	1	1.6	0.6	2.4	1.8	27.2	26.8	24.8	1340
2x35*	1.2	1	1.6	0.6	2.4	1.8	22.9	22.5	20.5	1340
2x50*	1.4	1	1.6	0.6	2.4	1.9	25.5	25.1	23.1	1450

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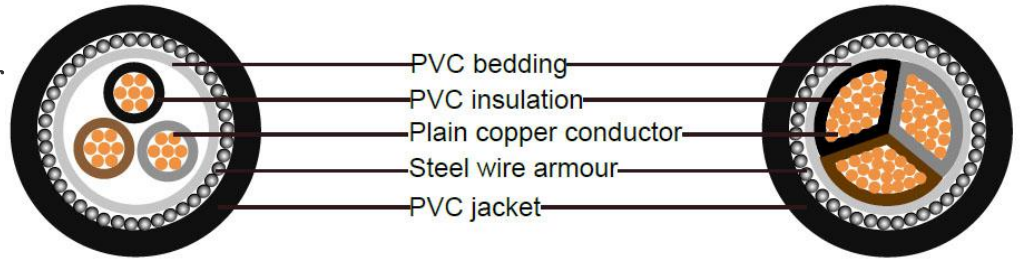
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2x70*	1.4	1	1.6	1	3.6	1.9	27.7	27.3	26.1	1560
2x95*	1.6	1.2	2.0	1	3.6	2.1	32.4	31.6	29.6	2200

\*Solid shaped conductor (class 1)

Three-core 600/1000V cables with stranded copper conductors



Nominal cross-sectional area	Number / wire	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armor dia.	Nominal sheath thickness	Approx. overall diameter		Approx. cable weight
						extruded bedding	taped bedding	
mm	No./mm	mm	mm	mm	mm	mm	mm	kg/mm
3x1.5	7/0.53	0.6	0.8	0.9	1.4	12.8	-	307
3x2.5	7/0.67	0.7	0.8	0.9	1.4	14.1	-	387
3x4	7/0.85	0.8	0.8	0.9	1.4	15.8	-	493
3x6	7/1.04	0.8	0.8	1.25	1.5	18.0	-	701
3x10	7/1.35	1.0	0.8	1.25	1.6	21.2	-	967
3x16	7/1.70	1.0	0.8	1.25	1.6	23.1	23.1	1219
3x25	7/2.14	1.2	1.0	1.6	1.7	28.2	27.8	1612
3x25*	7/2.14	1.2	1.0	1.6	1.7	25.0	24.6	1612
3x35	19/1.53	1.2	1.0	1.6	1.8	30.8	30.4	1992
3x35*	19/1.53	1.2	1.0	1.6	1.8	27.1	26.7	1992
3x50*	19/1.78	1.4	1.0	1.6	1.9	30.5	30.1	2534
3x70*	19/2.14	1.4	1.2	2.0	2.0	35.0	34.2	3518



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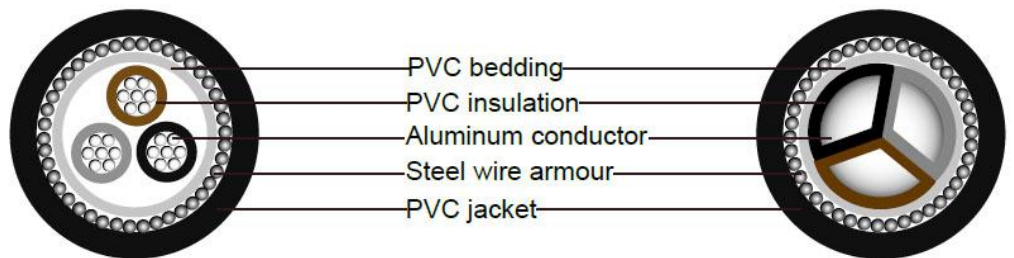
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3x95*	19/2.52	1.6	1.2	2.0	2.1	39.3	38.5	4510
3x120*	37/2.03	1.6	1.2	2.0	2.2	42.2	41.4	5375
3x150*	37/2.25	1.8	1.4	2.5	2.4	47.5	46.3	6810
3x185*	37/2.52	2.0	1.4	2.5	2.5	51.9	50.7	8190
3x240*	61/2.25	2.2	1.6	2.5	2.6	57.8	56.2	10280
3x300*	61/2.52	2.4	1.6	2.5	2.8	63.2	61.6	12430
3x400*	61/2.85	2.6	1.6	2.5	3.0	69.6	68.0	15400

\*Shaped stranded conductor (class 2)

Three-core 600/1000V cables with solid aluminum conductors



Nominal cross-sectional area	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armor dia.	Armour strip		Nominal sheath thickness	Approx. overall diameter			Approx. cable weight
				thickness	width		wire armor		strip armor	
							extruded bedding	taped bedding		
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
3x16	1	0.8	1.25	0.6	2.4	1.6	21.7	21.7	20.4	925
3x25	1.2	1	1.6	0.6	2.4	1.7	23.9	23.5	21.5	1150
3x25*	1.2	1	1.6	0.6	2.4	1.7	25.8	25.4	23.4	1150
3x35	1.2	1	1.6	0.6	2.4	1.8	26.4	26.0	24.1	1345
3x35*	1.2	1	1.6	0.6	2.4	1.8	28.7	28.3	27.3	1345

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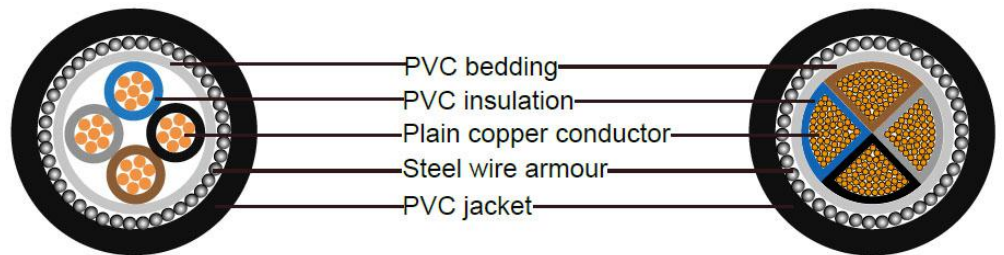
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3x50*	1.4	1	1.6	1	3.6	1.9	28.9	28.5	26.4	1610
3x70*	1.4	1.2	2	1	3.6	2	33	32.2	30.2	2220
3x95*	1.6	1.2	2	1.4	4.8	2.1	37.1	36.3	35.1	2745
3x120*	1.6	1.2	2	1.4	4.8	2.2	39.7	38.9	37.7	3145
3x150*	1.8	1.4	2.5	1.4	4.8	2.4	44.7	43.5	41.3	4020
3x185*	2	1.4	2.5	1.4	4.8	2.5	48.7	47.5	45.3	4730
3x240*	2.2	1.6	2.5	1.8	6.4	2.6	54.2	52.6	51.2	5820
3x300*	2.4	1.6	2.5	1.8	6.4	2.8	59.2	57.6	56.2	6850

\*Solid shaped conductor (class 1)

Four-core 600/1000V cables with stranded copper conductors



Nominal cross-sectional area	Number / wire	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armour dia.	Nominal sheath thickness	Approx. overall diameter		Approx. cable weight
						extruded bedding	taped bedding	
mm	No./mm	mm	mm	mm	mm	mm	mm	kg/mm
4x1.5	7/0.53	0.6	0.8	0.9	1.4	13.5	-	330
4x2.5	7/0.67	0.7	0.8	0.9	1.4	15.0	-	430
4x4	7/0.85	0.8	0.8	1.25	1.5	17.8	-	640
4x6	7/1.04	0.8	0.8	1.25	1.5	19.2	-	770
4x10	7/1.35	1.0	0.8	1.25	1.6	22.8	-	1070
4x16	7/1.70	1.0	1.0	1.6	1.7	26.3	25.9	1550





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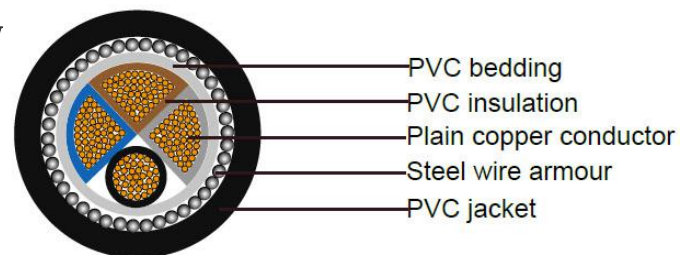
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mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
4x16	1	1	1.6	0.6	2.4	1.7	24.7	24.3	22.3	1125	
4x25	1.2	1	1.6	0.6	2.4	1.8	28.7	28.3	26.3	1390	
4x25*	1.2	1	1.6	0.6	2.4	1.8	26.3	25.9	23.9	1390	
4x35	1.2	1	1.6	0.6	2.4	1.9	31.3	30.9	28.9	1625	
4x35*	1.2	1	1.6	0.6	2.4	1.9	28.6	28.2	26.2	1625	
4x50*	1.4	1.2	2	1	3.6	2	33.3	32.5	30.5	2240	
4x70*	1.4	1.2	2	1	3.6	2.1	36.8	36.0	34	2750	
4x95*	1.6	1.2	2	1.4	4.8	2.2	41.5	40.7	39.5	3360	
4x120*	1.6	1.4	2.5	1.4	4.8	2.4	46.1	44.9	42.7	4380	
4x150*	1.8	1.4	2.5	1.4	4.8	2.5	50.1	48.9	46.7	5000	
4x185*	2	1.6	2.5	1.8	6.4	2.6	55.1	53.5	52.1	5960	
4x240*	2.2	1.6	2.5	1.8	6.4	2.8	61.2	59.6	58.2	7340	
4x300*	2.4	1.6	2.5	1.8	6.4	3	67	65.4	64	8610	

\*Solid shaped conductor (class 1)

3+1 Core (4 Core with reduced neutral) 600/1000V cables with stranded copper conductors



Nominal cross-sectional area		Nominal insulation thickness		Nominal bedding thickness	Nominal wire armor dia.	Nominal sheath thickness	Approx. Overall Diameter	Approx. cable weight
Phase	Neutral	Phase	Neutral					
mm	mm	mm	mm	mm	mm	mm	mm	kg/mm
3x10	1x6	1.0	0.8	1.0	1.25	1.8	23.4	1370

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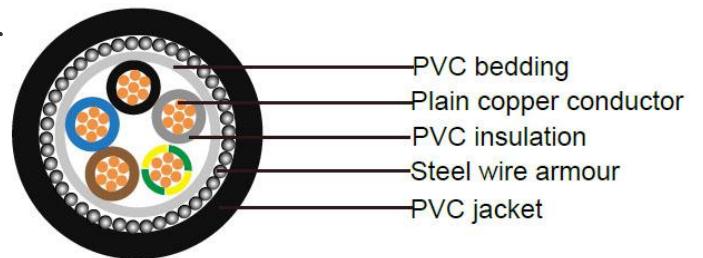
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3x16	1x10	1.0	1.0	1.0	1.25	1.8	25.0	1620
3x25*	1x16	1.2	1.0	1.0	1.6	1.8	27.8	1900
3x35*	1x16	1.2	1.0	1.0	1.6	1.8	29.5	2300
3x50*	1x25	1.4	1.2	1.0	1.6	1.9	33.1	3050
3x70*	1x35	1.4	1.2	1.2	2.0	2.0	38.0	4130
3x95*	1x50	1.6	1.4	1.2	2.0	2.2	43.7	5370
3x120*	1x70	1.6	1.4	1.4	2.5	2.3	49.0	6840
3x150*	1x70	1.8	1.4	1.4	2.5	2.4	52.0	8040
3x185*	1x95	2.0	1.6	1.4	2.5	2.5	57.2	9760
3x240*	1x120	2.2	1.6	1.6	2.5	2.7	63.7	12210
3x300*	1x150	2.4	1.8	1.6	2.5	2.9	69.8	14840
3x300*	1x185	2.4	2.0	1.6	2.5	2.9	71.8	17730
3x400*	1x185	2.6	2.0	1.8	3.15	3.1	78.6	19090

\*Shaped stranded conductor (class 2)

Five-core 600/1000V cables with stranded copper conductors



Nominal cross-sectional area	Number / wire	Nominal insulation thickness	Nominal bedding thickness	Nominal wire armor dia.	Nominal sheath thickness	Approx. overall diameter		Approx. cable weight
						extruded bedding	taped bedding	
mm	No./mm	mm	mm	mm	mm	mm	mm	kg/mm
5x1.5	7/0.53	0.6	0.8	0.9	1.4	14.3	-	430

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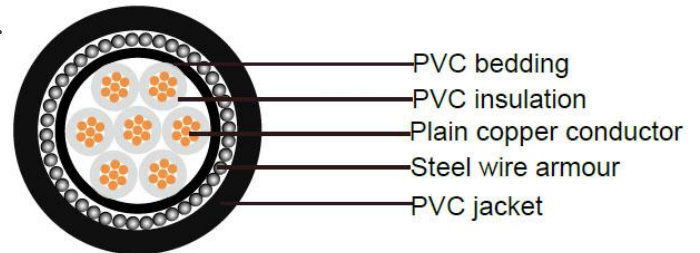
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5x2.5	7/0.67	0.7	0.8	0.9	1.5	16.3	-	545
5x4	7/0.85	0.8	0.8	1.25	1.5	19.0	-	790
5x6	7/1.04	0.8	0.8	1.25	1.6	20.9	-	880
5x10	7/1.35	1.0	1.0	1.6	1.7	25.8	-	1150
5x16	7/1.70	1.0	1.0	1.6	1.7	28.4	28.0	1670
5x25	7/2.14	1.2	1.0	1.6	1.9	33.5	33.1	2250
5x35	19/1.53	1.2	1.0	1.6	1.9	36.6	36.2	2670
5x50	19/1.78	1.4	1.2	2.0	2.1	43.0	42.2	3590
5x70	19/2.14	1.4	1.2	2.0	2.2	48.1	47.3	4610

Multi-core 600/1000V cables with stranded copper conductors



No. of Cores	Nominal cross-sectional area	Number/wire	Nominal insulation thickness	Nominal bedding thickness	Nominal alum wire armor dia.	Nominal sheath thickness	Approx. overall diameter	Approx. cable weight
	mm	No./mm	mm	mm	mm	mm	mm	kg/mm
7	1.5	7/0.53	0.6	0.8	0.9	1.4	15.2	500
10	1.5	7/0.53	0.6	0.8	1.25	1.5	18.6	780
12	1.5	7/0.53	0.6	0.8	1.25	1.5	19.4	830
19	1.5	7/0.53	0.6	0.8	1.25	1.6	22.2	1090
27	1.5	7/0.53	0.6	1.0	1.6	1.7	26.7	1600
37	1.5	7/0.53	0.6	1.0	1.6	1.8	29.2	1940



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48	1.5	7/0.53	0.6	1.0	1.6	1.9	32.9	2360
7	2.5	7/0.67	0.7	0.8	1.25	1.5	18.0	750
10	2.5	7/0.67	0.7	0.8	1.25	1.6	21.8	1000
12	2.5	7/0.67	0.7	0.8	1.25	1.6	22.4	1080
19	2.5	7/0.67	0.7	1.0	1.6	1.7	26.6	1640
27	2.5	7/0.67	0.7	1.0	1.6	1.8	30.7	2110
37	2.5	7/0.67	0.7	1.0	1.6	1.9	34.0	2600
48	2.5	7/0.67	0.7	1.2	2.0	2.1	39.5	3520
7	4	7/0.85	0.8	0.8	1.25	1.6	20.5	970
10	4	7/0.85	0.8	1.0	1.6	1.7	26.1	1500
12	4	7/0.85	0.8	1.0	1.6	1.7	26.8	1630
19	4	7/0.85	0.8	1.0	1.6	1.8	30.5	2170
27	4	7/0.85	0.8	1.2	2.0	2.0	37.1	3170
37	4	7/0.85	0.8	1.2	2.0	2.1	40.8	3910
48	4	7/0.85	0.8	1.2	2.0	2.2	46.0	4790

## BS 6346 PVC Insulated Cables, Technical Reference

### Maximum resistance of conductor and armour for single-core cable having aluminum wire armour

Nominal cross sectional area of conductor	Maximum resistance per km of cable at 20 °C			
	Copper conductor	Aluminum conductor	Aluminum wire armour	
			Cables with stranded copper conductor	Cables with solid aluminum conductor



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mm <sup>2</sup>			600/1000V	1900/3300 V	600/1000V	1900/3300 V
	Ω	Ω	Ω	Ω	Ω	Ω
50	0.387	0.641	1.3	0.75	1.4	0.79
70	0.268	0.443	0.75	0.67	0.84	0.73
95	0.193	0.32	0.67	0.61	0.75	0.67
120	0.153	0.253	0.61	0.42	0.69	0.47
150	0.124	0.206	0.42	0.39	0.47	0.43
185	0.0991	0.164	0.38	0.37	0.42	0.4
240	0.0754	0.125	0.34	0.34	0.38	0.37
300	0.0601	0.1	0.31	0.31	0.35	0.34
400	0.047	—	0.22	0.22	—	—
500	0.0366	—	0.2	0.2	—	—
630	0.0283	—	0.18	0.18	—	—
800	0.0221	—	0.13	0.13	—	—
1 000	0.0176	—	0.12	0.12	—	—

**Maximum resistance of conductor and armour for two-, three-, four- and five-core cables having wire armour**

**1) With stranded copper conductor**

Nominal cross sectional area of conductor	Maximum resistance per km of cable at 20 °C					
	Copper conductor	Aluminum conductor	Steel wire armour			
			Cables with stranded copper conductors			
			Two-core	Three-core	Four-core	Five-core



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			600/1000 V	600/1000 V	1900/330 0 V	600/1000 V	600/1000 V
mm <sup>2</sup>	Ω	Ω	Ω	Ω	Ω	Ω	Ω
1.5	12.1	—	10.2	9.5	—	8.8	8.2
2.5	7.41	—	8.8	8.2	—	7.7	6.8
4	4.61	—	7.9	7.5	—	6.8	6.2
6	3.08	—	7	6.7	—	4.3	3.9
10	1.83	—	6	4	—	3.7	3.4
16	1.15	1.91	3.7	3.5	1.9	3.1	2.2
25	0.727	1.2	3.7	2.5	1.7	2.0 2.3	1.8
35	0.524	0.868	2.6	2.3	1.8	—	1.6
50	0.387	0.641	2.3	2	1.3	1.8	1.1
70	0.268	0.443	2	1.8	1.2	1.2	0.94
95	0.193	0.32	1.4	1.3	1.1	1.1	—
120	0.153	0.253	1.3	1.2	0.76	0.76	—
150	0.124	0.206	1.2	0.78	0.71	0.68	—
185	0.099 1	0.164	0.82	0.71	0.65	0.61	—
240	0.075 4	0.125	0.73	0.63	0.59	0.54	—
300	0.060 1	0.1	0.67	0.58	0.55	0.49	—
400	0.047 0	—	0.59	0.52	0.5	0.35	—

## 2) With solid aluminum conductor

Nominal cross-sectional area of conductor	Maximum resistance per km of cable at 20 °C		
	Copper conductor	Aluminum conductor	Steel wire armour
			Cables with solid aluminum conductors



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mm <sup>2</sup>	Ω	Ω	Two-core	Three-core		Four-core
			600/1000V	600/1000V	1900/3300 V	600/ 1000V
mm <sup>2</sup>	Ω	Ω	Ω	Ω	Ω	Ω
1.5	12.1	—	—	—	—	—
2.5	7.41	—	—	—	—	—
4	4.61	—	—	—	—	—
6	3.08	—	—	—	—	—
10	1.83	—	—	—	—	—
16	1.15	1.91	4	3.8	2	3.4
25	0.727	1.2	4.1	2.7	1.9	2.4
35	0.524	0.868	2.9	2.5	1.9	2.2
50	0.387	0.641	2.6	2.2	1.4	1.9
70	0.268	0.443	2.3	1.9	1.3	1.3
95	0.193	0.32	1.6	1.4	1.2	1.2
120	0.153	0.253	—	1.2	0.82	0.82
150	0.124	0.206	—	0.86	0.76	0.74
185	0.099 1	0.164	—	0.76	0.71	0.67
240	0.075 4	0.125	—	0.68	0.64	0.59
300	0.060 1	0.1	—	0.63	0.59	0.54
400	0.047 0	—	—	—	—	—

## Electrical Properties(600/1000V)

### 1) Single core with copper conductor



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Nominal area of conductor	Single Core Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
50	235	235	222	0.87	0.93	0.87
70	290	280	285	0.62	0.70	0.62
95	345	330	346	0.47	0.56	0.47
120	390	370	402	0.39	0.48	0.39
150	435	405	463	0.33	0.43	0.33
185	490	440	529	0.28	0.39	0.28
240	560	500	625	0.24	0.35	0.24
300	630	550	720	0.21	0.32	0.21
400	700	580	815	0.20	0.30	0.20
500	770	620	918	0.18	0.28	0.18
630	840	670	1027	0.17	0.26	0.17
800	888	692	1119	0.17	0.25	0.17
1000	942	735	1214	0.16	0.24	0.16

### 1) Single core with aluminum conductor

Nominal area of conductor	Single Core Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air



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mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
50	175	180	162	1.40	1.60	1.40
70	220	220	207	0.98	1.00	0.98
95	260	260	252	0.72	0.79	0.74
120	295	295	292	0.58	0.66	0.60
150	330	330	337	0.48	0.57	0.49
185	375	365	391	0.39	0.49	0.41
240	435	410	465	0.31	0.42	0.34
300	490	455	540	0.27	0.38	0.29
400	540	480	625	0.35	0.38	0.25
500	580	510	714	0.31	0.35	0.22
630	630	540	801	0.28	0.32	0.20

## 2) Two cores with copper conductor

Nominal area of conductor	Two Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In single way ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
16*	140	115	115	2.9	2.9	2.9
25*	180	145	152	1.9	1.9	1.9
35*	215	175	188	1.3	1.3	1.3
50	255	210	228	1.0	1.0	1.0
70	315	260	291	0.7	0.7	0.7



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**2) Two cores with aluminum conductor**

Nominal area of conductor	Two Cores Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In single way ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
25*	135	110	112	3.1	3.1	3.1
35*	165	130	138	2.2	2.2	2.2
50	195	155	166	1.7	1.7	1.7
70	240	195	211	1.1	1.1	1.1
95	288	237	254	0.8	0.8	0.8

**3) Three cores with copper conductor**

Nominal area of conductor	Three Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
16	115	94	99	2.5	2.5	2.5
25	150	125	131	1.7	1.7	1.7
35	180	150	162	1.2	1.2	1.2
50	215	175	197	0.9	0.9	0.9
70	265	215	251	0.6	0.6	0.6
95	315	260	304	0.5	0.5	0.5



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120	360	300	353	0.4	0.4	0.4
150	405	335	406	0.3	0.3	0.3
185	460	380	463	0.3	0.3	0.3
240	530	440	546	0.2	0.2	0.2
300	590	495	628	0.2	0.2	0.2
400	667	570	728	0.2	0.2	0.2

### 3) Three cores with aluminum conductor

Nominal area of conductor	Three Cores Aluminum Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
16	89	72	74	4.2	4.2	4.2
25	115	94	98	2.7	2.7	2.7
35	135	110	120	1.9	1.9	1.9
50	165	135	145	1.4	1.4	1.4
70	200	165	185	1.0	1.0	1.0
95	240	200	224	0.7	0.7	0.7
120	275	230	264	0.6	0.6	0.6
150	310	255	305	0.5	0.5	0.5
185	350	295	350	0.4	0.4	0.4
240	410	340	418	0.3	0.3	0.3
300	460	385	488	0.3	0.3	0.3



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400	520	443	562	0.2	0.2	0.2
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**4) Four cores with copper conductor**

Nominal area of conductor	Four Cores Stranded Copper Conductors					
	Current Ratings			Approximate voltage drop per ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
mm <sup>2</sup>	amps	amps	amps	mV	mV	mV
16	115	94	99	2.5	2.5	2.5
25	150	125	131	1.7	1.7	1.7
35	180	150	162	1.2	1.2	1.2
50	215	175	197	0.9	0.9	0.9
70	265	215	251	0.6	0.6	0.6
95	315	260	304	0.5	0.5	0.5
120	360	300	353	0.4	0.4	0.4
150	405	335	406	0.3	0.3	0.3
185	460	380	463	0.3	0.3	0.3
240	530	440	546	0.2	0.2	0.2
300	590	495	628	0.2	0.2	0.2
400	667	570	728	0.2	0.2	0.2
500	720	605	800	0.2	0.2	0.2

**4) Four cores with aluminum conductor**

Nominal area of	Four Cores Aluminum Conductors	
	Current Ratings	Approximate voltage drop per ampere



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conductor mm <sup>2</sup>	Current Ratings			per metre		
	Direct in ground amps	In singleway ducts amps	Installed in air amps	Ground mV	Duct mV	Air mV
16	89	72	74	4.2	4.2	4.2
25	115	94	98	2.7	2.7	2.7
35	135	110	120	1.9	1.9	1.9
50	165	135	145	1.4	1.4	1.4
70	200	165	185	1.0	1.0	1.0
95	240	200	224	0.7	0.7	0.7
120	275	230	264	0.6	0.6	0.6
150	310	255	305	0.5	0.5	0.5
185	350	295	350	0.4	0.4	0.4
240	410	340	418	0.3	0.3	0.3
300	460	385	488	0.3	0.3	0.3
400	520	443	562	0.2	0.2	0.2
500	561	470	618	0.2	0.2	0.2

### Electrical Properties(1900/3300 V)

Nominal area of conductor mm <sup>2</sup>	Single Core Stranded Copper Conductors			Nominal area of conductor mm <sup>2</sup>	Three Core Stranded Copper Conductors		
	Current Ratings				Current Ratings		
	Direct in ground amps	In single way ducts amps	Installed in air amps		Direct in ground amps	In single way ducts amps	Installed in air amps
mm <sup>2</sup>	amps	amps	amps	mm <sup>2</sup>	amps	amps	amps



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50	222	219	228	16	114	96	106
70	271	264	285	25	147	124	142
95	324	310	350	35	175	147	168
120	366	342	407	50	207	174	202
150	409	376	463	70	254	214	255
185	460	414	528	95	304	257	312
240	528	464	623	120	345	293	361
300	589	506	710	150	387	328	410
400	651	535	808	185	436	371	471
500	720	579	915	240	502	428	554
630	789	624	1030	300	563	480	634
800	831	650	1119	-	-	-	-
1000	880	689	1214	-	-	-	-