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BS 5467 Armoured Power Cables, 600/1000V

Applications

These cables are used for power and control circuits, they can offer excellent protection through the use of a heavy galvanized steel wire armour. The GSWA makes them suitable for use inside and outside buildings or for direct burial in the ground.

Construction

Conductor	Solid Aluminum or Copper conductor, round stranded or shaped, Class 2 to BS 6460, IEC 60228.
Insulation	XLPE (Cross-Linked Polyethylene) Type GP 8 or ethylene propylene rubber (GP 6)
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
Bedding	PVC (Polyvinyl Chloride)
Armour	Single Core: AWA (Aluminum Wire Armour) Multi Core: SWA (Steel Wire Armour)
Outer Sheath	PVC(Polyvinyl Chloride)

Technical Information

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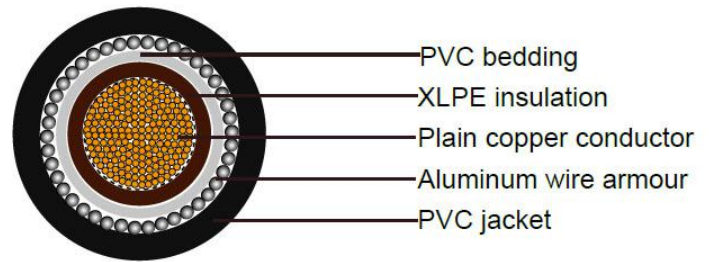
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Voltage rating	600/1000V
Temperature rating	0°C to +90°C
Bending radius	1.5mm ² to 16mm ² : 6 x overall diameter 25mm ² and above : 8 x overall diameter
Flame retardant	IEC60332 part 1, BS4066 part 1

Cable Parameter

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



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Alum Wire dia.	Nominal Sheath thickness	Approx. Overall Diameter	Aprrox Weight
mm ²	No./mm	mm	mm	mm	mm	mm	kg/km
1x50	19/1.78	1.0	0.8	0.9	1.5	17.5	800
1x70	19/2.14	1.1	0.8	1.25	1.5	20.2	990
1x95	19/2.52	1.1	0.8	1.25	1.6	22.3	1280
1x120	37/2.03	1.2	0.8	1.25	1.6	24.2	1550
1x150	37/2.25	1.4	1	1.6	1.7	27.4	1900
1x185	37/2.52	1.6	1	1.6	1.8	30.0	2320
1x240	61/2.25	1.7	1	1.6	1.8	32.8	2930
1x300	61/2.52	1.8	1	1.6	1.9	35.6	3580

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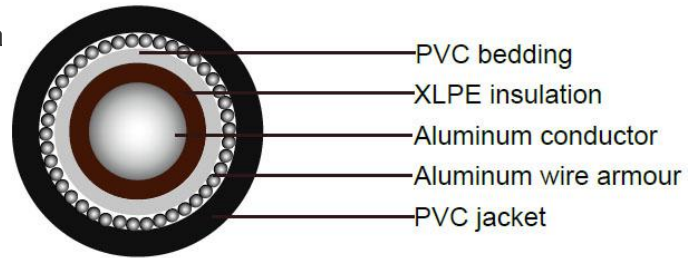
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1x400	61/2.85	2.0	1.2	2.0	2.0	40.5	4600
1x500	61/3.20	2.2	1.2	2.0	2.1	44.2	5680
1x630	127/2.52	2.4	1.2	2.0	2.2	48.8	7160
1x800	127/2.85	2.6	1.4	2.5	2.4	55.4	9315
1x1000	127/3.20	2.8	1.4	2.5	2.5	60.6	11490

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. Overall Diameter		Approx Weight
				thickness	width		wire armor	strip armor	
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
1x50	1.0	0.8	0.9	0.6	2.4	1.5	16.3	15.7	460
1x70	1.1	0.8	1.25	0.6	2.4	1.5	18.7	17.4	560
1x95	1.1	0.8	1.25	0.6	2.4	1.6	20.6	19.3	690
1x120	1.2	0.8	1.25	0.6	2.4	1.6	22.1	20.8	800
1x150	1.4	1	1.6	0.6	2.4	1.7	25.2	23.2	970
1x185	1.6	1	1.6	0.6	2.4	1.8	27.4	25.4	1150
1x240	1.7	1	1.6	1	3.6	1.8	29.9	28.7	1380
1x300	1.8	1	1.6	1	3.6	1.9	32.4	31.2	1640

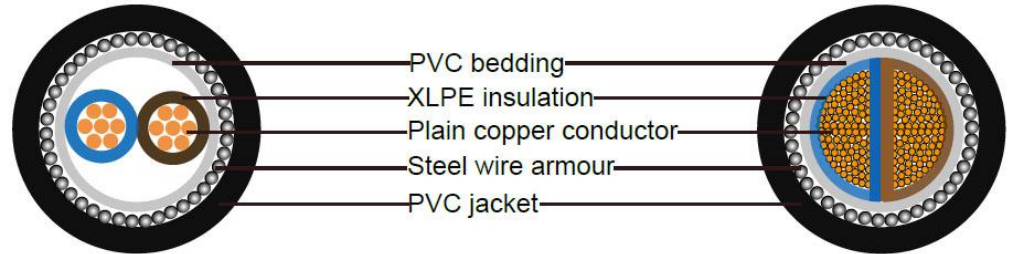
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Two-core 600/1000V cables with stranded copper conductors



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel Wire Armour dia.	Nominal Sheath thickness	Approx. Overall Diameter		Approx Weight
						Extruded bedding	Taped bedding	
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
2x1.5	7/0.53	0.6	0.8	0.9	1.4	12.1	-	320
2x2.5	7/0.67	0.7	0.8	0.9	1.4	13.6	-	365
2x4	7/0.85	0.7	0.8	0.9	1.4	14.7	-	440
2x6	7/1.04	0.7	0.8	0.9	1.4	15.9	-	470
2x10	7/1.35	0.7	0.8	0.9	1.5	18.0	-	800
2x16	7/1.70	0.7	0.8	1.25	1.5	20.4	20.4	900
2x25	7/2.14	0.9	0.8	1.25	1.6	24.1	24.1	1240
2x25*	7/2.14	0.9	0.8	1.25	1.6	20.4	20.4	1240
2x35	7/2.52	0.9	1	1.6	1.7	27.7	27.3	1710
2x35*	7/2.52	0.9	1	1.6	1.7	23.3	22.9	1710
2x50*	19/1.78	1.0	1	1.6	1.8	25.8	25.4	1800
2x70*	19/2.14	1.1	1	1.6	1.9	29.0	28.6	2320
2x95*	19/2.52	1.1	1.2	2.0	2.0	33.1	32.3	3150

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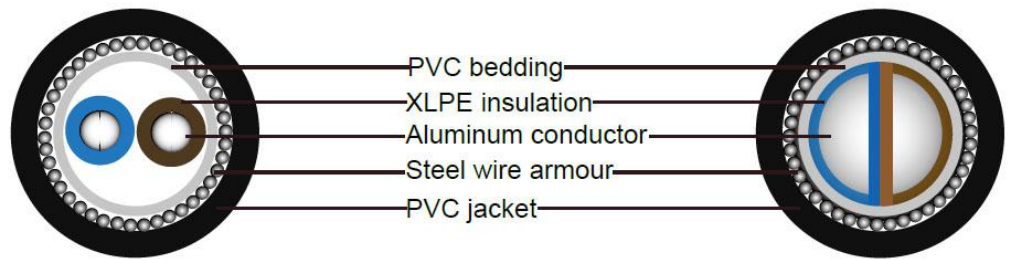
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2x120*	37/2.03	1.2	1.2	2.0	2.1	36.1	35.3	3880
2x150*	37/2.25	1.4	1.2	2.0	2.2	39.3	38.5	4820
2x185*	37/2.52	1.6	1.4	2.5	2.4	44.7	43.5	5920
2x240*	61/2.25	1.7	1.4	2.5	2.5	49.0	47.8	7300
2x300*	61/2.52	1.8	1.6	2.5	2.6	53.5	51.9	8770
2x400*	61/2.85	2	1.6	2.5	2.8	59.0	57.4	10905

* D-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 Steel Wire Armor dia.	Armour strip		Nominal Sheath thickness	Approx. Overall Diameter			Approx Weight
				thick-ness	width		wire armor		strip armor	
							Extruded bedding	Taped bedding		
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
2x16	0.7	0.8	1.25	0.6	2.4	1.5	19.1	19.1	17.8	650
2x25	0.9	0.8	1.25	0.6	2.4	1.5	22.4	22.4	21.1	915
2x25*	0.9	0.8	1.25	0.6	2.4	1.6	18.7	18.7	17.4	1255
2x35	0.9	1	1.6	0.6	2.4	1.6	25.7	25.3	23.3	1255
2x35*	0.9	1	1.6	0.6	2.4	1.7	21.4	21.0	19	1430

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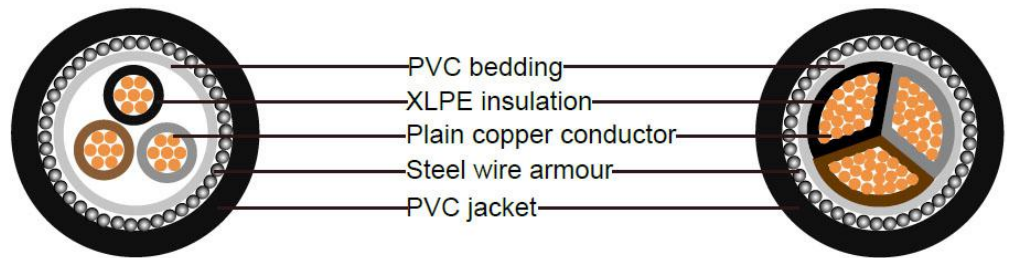
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2x50*	1.0	1	1.6	0.6	2.4	1.8	23.5	23.1	21.1	1430
2x70*	1.1	1	1.6	1	3.6	1.9	26.3	25.9	24.7	1780
2x95*	1.1	1.2	2.0	1	3.6	2	30	29.2	27.2	1950

*Solid shaped conductor (class 1)

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



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel Wire Armor dia.	Nominal Sheath thickness	Approx. Overall Diameter		Approx Weight
						Extruded bedding	Taped bedding	
mm ²	No./m	mm	mm	mm	mm	mm	mm	kg/km
3x1.5	7/0.53	0.6	0.8	0.9	1.3	12.6	-	340
3x2.5	7/0.67	0.7	0.8	0.9	1.4	14.1	-	408
3x4	7/0.85	0.7	0.8	0.9	1.4	15.3	-	498
3x6	7/1.04	0.7	0.8	0.9	1.4	16.6	-	600
3x10	7/1.35	0.7	0.8	1.25	1.5	19.5	-	915
3x16	7/1.70	0.7	0.8	1.25	1.6	21.6	21.6	1130
3x25	7/2.14	0.9	1	1.6	1.7	26.7	26.3	1710
3x25*	7/2.14	0.9	1	1.6	1.7	23.6	23.2	1710
3x35	7/2.52	0.9	1	1.6	1.8	29.4	29.0	2100
3x35*	7/2.52	0.9	1	1.6	1.8	25.7	25.3	2100

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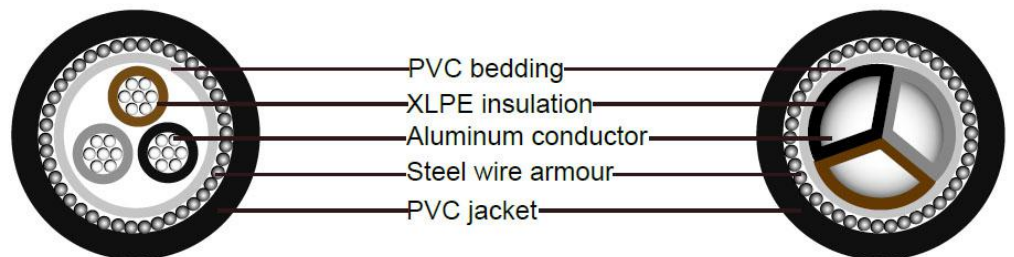
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3x50*	19/1.78	1.0	1	1.6	1.8	28.5	28.1	2450
3x70*	19/2.14	1.1	1	1.6	1.9	32.2	31.8	3120
3x95*	19/2.52	1.1	1.2	2.0	2.1	37.0	36.2	4310
3x120*	37/2.03	1.2	1.2	2.0	2.2	40.4	39.6	5160
3x150*	37/2.25	1.4	1.4	2.5	2.3	45.5	44.3	7160
3x185*	37/2.52	1.6	1.4	2.5	2.4	49.8	48.6	8600
3x240*	61/2.25	1.7	1.4	2.5	2.6	55.1	53.9	10755
3x300*	61/2.52	1.8	1.6	2.5	2.7	60.2	58.6	13080
3x400*	61/2.85	2	1.6	2.5	2.9	66.6	65.0	15810

*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 Steel Wire Armordia.	Armour strip		Nominal Sheath thickness	Approx. Overall Diameter			Approx Weight
				thick-ness	width		wire armor		strip armor	
							Extruded bedding	Taped bedding		
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
3x16	0.7	0.8	1.25	0.6	2.4	1.6	20.3	20.3	19	760
3x25*	0.9	1	1.6	0.6	2.4	1.7	22.5	22.1	20.1	1020

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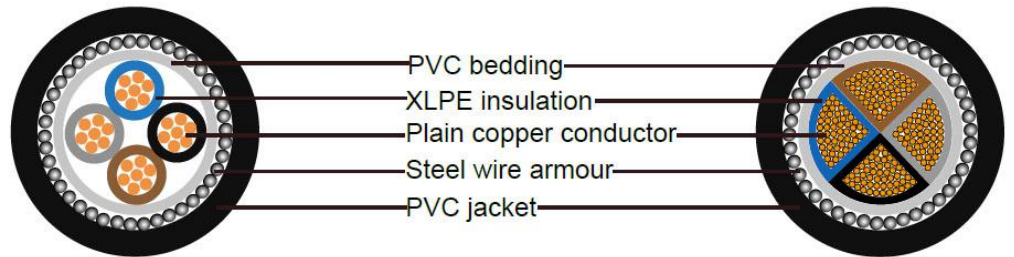
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3x25	0.9	1	1.6	0.6	2.4	1.7	24.9	24.5	22.5	1020
3x35*	0.9	1	1.6	0.6	2.4	1.8	24.4	24.9	22	1200
3x35	0.9	1	1.6	0.6	2.4	1.8	27.3	26.9	24.9	1200
3x50*	1.0	1	1.6	0.6	2.4	1.8	26.8	26.4	24.9	1380
3x70*	1.1	1	1.6	1	3.6	1.9	30.2	29.8	28.6	1750
3x95*	1.1	1.2	2.0	1	3.6	2.1	34.8	34.0	32	2420
3x120*	1.2	1.2	2.0	1.4	4.8	2.2	37.8	37.0	35.8	2820
3x150*	1.4	1.4	2.5	1.4	4.8	2.3	42.7	41.5	39.3	3660
3x185*	1.6	1.4	2.5	1.4	4.8	2.4	46.7	45.5	43.3	4350
3x240*	1.7	1.4	2.5	1.4	4.8	2.6	51.5	50.3	48.1	5220
3x300*	1.8	1.6	2.5	1.8	6.4	2.7	56.2	54.6	53.2	6200

*Solid shaped conductor (class 1)

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



Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel Wire Armor dia.	Nominal Sheath thickness	Approx. Overall Diameter		Approx Weight
						Extruded bedding	Taped bedding	
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
4x1.5	7/0.53	0.7	0.8	0.9	1.4	13.3	-	390
4x2.5	7/0.67	0.7	0.8	0.9	1.4	15.0	-	470

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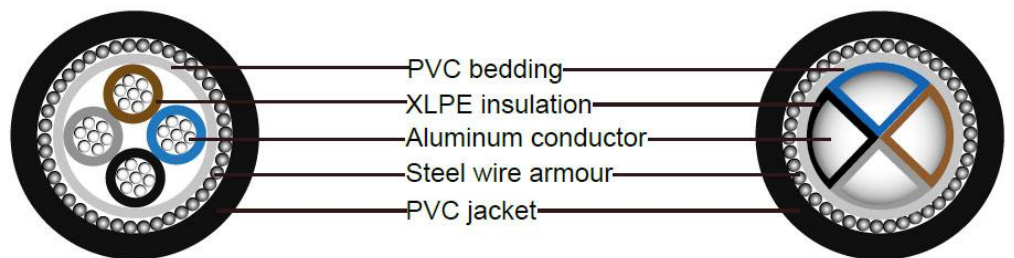
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4x4	7/0.85	0.7	0.8	0.9	1.4	16.4	-	580
4x6	7/1.04	0.7	0.8	1.25	1.5	18.7	-	805
4x10	7/1.35	0.7	0.8	1.25	1.5	21.1	-	1090
4x16	7/1.70	0.7	0.8	1.25	1.6	23.4	23.4	1320
4x25	7/2.14	0.9	1	1.6	1.7	28.9	28.5	1840
4x25*	7/2.14	0.9	1	1.6	1.7	26.1	25.7	1840
4x35	7/2.52	0.9	1	1.6	1.8	31.9	31.5	2310
4x35*	7/2.52	0.9	1	1.6	1.8	28.6	28.2	2310
4x50*	19/1.78	1.0	1	1.6	1.9	32.0	31.6	2970
4x70*	19/2.14	1.1	1.2	2.0	2.1	37.7	36.9	4240
4x95*	19/2.52	1.1	1.2	2.0	2.2	41.7	40.9	5400
4x120*	37/2.03	1.2	1.4	2.5	2.3	47.1	45.9	7000
4x150*	37/2.25	1.4	1.4	2.5	2.4	51.4	50.2	8350
4x185*	37/2.52	1.6	1.4	2.5	2.6	56.6	55.4	10130
4x240*	61/2.25	1.7	1.6	2.5	2.7	63.0	61.4	12840
4x300*	61/2.52	1.8	1.6	2.5	2.9	68.8	67.2	15530
4x400*	61/2.85	2	1.8	3.15	3.2	78.1	76.1	19950

* Shaped stranded conductor (class 2)

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



Nominal Cross-section	Nominal Insulation	Nominal	Nominal	Armour strip	Nominal	Approx. Overall Diameter	Approx
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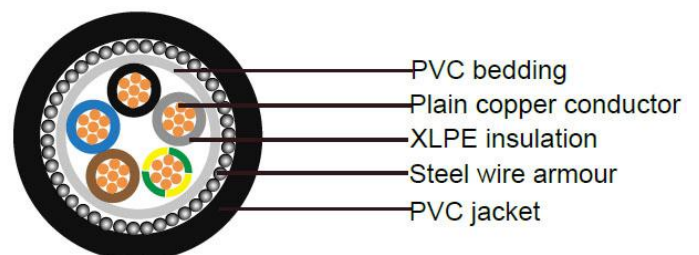
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Nominal Area	Conductor thickness	Bedding thickness	Steel Wire Armored dia.	Conductor thickness	Width	Sheath thickness	Wire armor		Strip armor	Weight
							Extruded bedding	Taped bedding		
mm ²	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg/km
4x16	0.7	0.8	1.25	0.6	2.4	1.6	21.8	21.8	20.5	980
4x25	0.9	1	1.6	0.6	2.4	1.7	26.9	26.5	24.5	1220
4x25*	0.9	1	1.6	0.6	2.4	1.7	24.6	24.2	22.2	1220
4x35	0.9	1	1.6	0.6	2.4	1.8	29.5	29.2	27.1	1420
4x35*	0.9	1	1.6	0.6	2.4	1.8	27	26.6	24.6	1420
4x50*	1.0	1	1.6	1	2.4	1.9	30	29.6	28.4	1770
4x70*	1.1	1.2	2.0	1	3.6	2.1	35.3	34.5	32.5	2500
4x95*	1.1	1.2	2.0	1.4	3.6	2.2	39	38.2	37	2980
4x120*	1.2	1.4	2.5	1.4	4.8	2.3	44	42.8	40.6	3950
4x150*	1.4	1.4	2.5	1.4	4.8	2.4	47.9	46.7	44.5	4600
4x185*	1.6	1.4	2.5	1.4	4.8	2.6	52.7	51.5	49.3	5430
4x240*	1.7	1.6	2.5	1.8	4.8	2.7	58.5	56.9	55.5	6660
4x300*	1.8	1.6	2.5	1.8	6.4	2.9	63.8	62.2	60.8	7770

*Solid shaped conductor (class 1)

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





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Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel Wire Armor dia.	Nominal Sheath thickness	Approx. Overall Diameter		Approx Weight
						Extruded bedding	Taped bedding	
mm ²	No./mm	mm	mm	mm	mm	mm	mm	kg/km
5x1.5	7/0.53	0.6	0.8	0.9	1.4	14.3	-	430
5x2.5	7/0.67	0.7	0.8	0.9	1.4	16.1	-	545
5x4	7/0.85	0.7	0.8	0.9	1.5	17.8	-	680
5x6	7/1.04	0.7	0.8	1.25	1.5	20	-	840
5x10	7/1.35	0.7	0.8	1.25	1.6	22.9	-	1105
5x16	7/1.70	0.7	1	1.6	1.7	26.6	26.2	1450
5x25	7/2.14	0.9	1	1.6	1.8	31.5	31.1	2245
5x35	7/2.52	0.9	1	1.6	1.9	34.8	34.4	2840
5x50	19/1.78	1.0	1.2	2	2	40.4	39.6	3895
5x70	19/2.14	1.1	1.2	2	2.2	46.3	45.5	5145

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

Nominal Cross-sectional Area	Strand Type	Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel Wire Armor dia.	Nominal Sheath thickness	Approx. Overall Diameter	Approx Weight
mm ²	No./mm	mm	mm	mm	mm	mm	kg/km
7x1.5	7/0.53	0.6	0.8	0.9	1.4	15.2	500
12x1.5	7/0.53	0.6	0.8	1.25	1.5	19.4	820



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19x1.5	7/0.53	0.6	0.8	1.25	1.6	22.2	1080
27x1.5	7/0.53	0.6	1	1.6	1.7	26.7	1550
37x1.5	7/0.53	0.6	1	1.6	1.7	29	1850
48x1.5	7/0.53	0.6	1	1.6	1.8	32.7	2250
7x2.5	7/0.67	0.7	0.8	0.9	1.4	17.1	730
12x2.5	7/0.67	0.7	0.8	1.25	1.6	22.4	1020
19x2.5	7/0.67	0.7	1	1.6	1.7	26.6	1530
27x2.5	7/0.67	0.7	1	1.6	1.8	30.7	1960
37x2.5	7/0.67	0.7	1	1.6	1.8	33.8	2450
48x2.5	7/0.67	0.7	1.2	2	2	39.3	3260
7x4	7/0.85	0.7	0.8	1.25	1.5	19.7	840
12x4	7/0.85	0.7	1	1.6	1.6	25.7	1390
19x4	7/0.85	0.7	1	1.6	1.7	29.3	1850
27x4	7/0.85	0.7	1	1.6	1.9	34.4	2350
37x4	7/0.85	0.7	1.2	2	2	39.2	2800
48x4	7/0.85	0.7	1.2	2	2.1	44.1	3250

BS 5467 Cable Technical Reference

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

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



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conductor			conductor		conductor	
			600/1000 V	1900/3300 V	600/1000 V	1900/3300 V
mm ²	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	Maximum resistance per km of cable at 20 °C		
	Copper conductor	Aluminum conductor	Steel wire armour
			Cables with stranded copper conductors



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conductor			Two-core	Three-core		Four-core	Five-core
			600/1000 V	600/1000 V	1900/3300 V	600/1000 V	600/1000 V
mm ^2	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	Maximum resistance per km of cable at 20 °C
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cross-sectional area of conductor	Copper conductor	Aluminum conductor	Steel wire armour			
			Cables with solid aluminum conductors			
			Two-core	Three-core		Four-core
			600/1000 V	600/1000 V	1900/3300 V	600/1000 V
mm ²	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	—	—	—	—	—



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800	0.76	0.09	-	-	-	-	-	-	-
1000	0.65	0.08	-	-	-	-	-	-	-

Electrical Properties(600/1000 V)

1) Single core with copper conductor

Nominal area of conductor	Single Core 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 ²	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

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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
mm ²	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



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mm ²	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
95	381	313	354	0.5	0.5	0.5
120	410	344	430	0.4	0.4	0.4
150	472	384	480	0.4	0.4	0.4
185	539	432	540	0.3	0.3	0.3
240	636	504	630	0.2	0.2	0.2
300	732	560	700	0.2	0.2	0.2

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 ²	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



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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 ²	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

3) Three cores with aluminum conductor

Nominal area of conductor	Three Cores Aluminum Conductors	
	Current Ratings	Approximate voltage drop per



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mm ²				ampere per metre		
	Direct in ground	In singleway ducts	Installed in air	Ground	Duct	Air
	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
400	520	443	562	0.2	0.2	0.2

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 ²	amps	amps	amps	mV	mV	mV
16	115	94	99	2.5	2.5	2.5



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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 conductor	Four 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 ²	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



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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	Single Core Stranded Copper Conductors			Nominal area of conductor	Three Core Stranded Copper Conductors		
	Current Ratings				Current Ratings		
	Direct in ground	In single wayducts	Installed in air		Direct in ground	In single wayducts	Installed in air
mm ²	amps	amps	amps	mm ²	amps	amps	amps
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



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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	-	-	-	-