

**PVC INSULATED
DISTRIBUTION CABLES
(BS 6346: 1989)
600/1000 V – aluminium**

Table A13.2 continued

Conductor size (mm ²)	Approximate diameter, ^a solid aluminium conductor		Approximate weight	
	Unarmoured (mm)	Armoured (SWA)		Unarmoured (kg/m)
		Tape bedding (mm)	Extruded bedding (mm)	
95	31.1	36.3	37.1	1.49
120	33.7	38.9	39.7	1.78
150	37.2	43.5	44.7	2.16
185	41.4	47.5	48.7	2.69
240	46.5	52.6	54.2	3.44
300	51.6	57.6	59.2	4.25
<i>4-core cables</i>				
16 ^c	20.4	24.4	24.8	0.50
25	21.5	25.9	26.3	0.65
35	23.6	28.2	28.6	0.78
50	27.1	32.5	33.3	1.05
70	30.6	36.0	36.8	1.38
95	35.5	40.6	41.4	1.95
120	38.6	44.9	46.1	2.32
150	42.8	48.9	50.1	2.84
185	47.4	53.5	55.1	3.52
240	53.5	59.6	61.2	4.53
300	59.6	65.4	67.0	5.62
<i>3-core cables</i>				
16 ^b				0.50
25 ^b				0.65
35				0.78
50				1.05
70				1.38
95				1.95
120				2.32
150				2.84
185				3.52
240				4.53
300				5.62

^a The diameter of cables with stranded conductors is the same as for copper (see table A13.1)^b Solid sectoral aluminium conductors^c Circular conductors

**PVC INSULATED
DISTRIBUTION CABLES
(BS 6346: 1989)
1.9/3.3 kV**

Table A13.3 Dimensions and weights (armoured cables, SWA)

Conductor size (mm ²)	Approximate diameter		Approximate weight	
	Stranded copper or aluminium conductor (mm)	Solid aluminium conductor (mm)	Stranded copper conductor (kg/m)	Solid aluminium conductor (kg/m)
<i>Single-core (aluminium wire armour)</i>				
50	21.0	19.8	0.87	0.55
70	22.8	21.3	1.11	0.65
95	26.0	24.3	1.49	0.85
120	27.6	25.6	1.77	0.97
150	29.4	27.1	2.07	1.10
185	31.3	28.8	2.47	1.25
240	34.1	31.2	3.09	1.50
300	37.0	33.7	3.77	1.77
400	42.0		4.83	
500	45.6		5.92	
630	49.7		7.42	
800	55.8		9.50	
1000	61.0		11.76	
380 ^a		38.4		2.25
480 ^a		41.7		2.70
600 ^a		44.6		3.13
740 ^a		49.5		3.89
960 ^a		54.9		4.79
1200 ^a		59.7		5.78
<i>3-core cables</i>				
16 ^b	30.3	29.0	1.80	1.47
25 ^b	33.1	31.3	2.25	1.68
35	32.1	30.6	2.57	1.82
50	35.6	33.9	3.33	2.32
70	38.9	36.9	4.14	2.72
95	42.3	40.0	5.11	3.19
120	46.6	44.0	6.45	4.01
150	49.4	46.5	7.43	4.45
185	52.8	49.6	8.73	5.03
240	57.8	54.2	10.83	5.95
300	63.2	59.2	13.09	7.00
400	69.6		16.09	

^a Solid sectoral aluminium conductors^b Circular conductors

The data apply to cables with extruded PVC bedding.