

PVC INSULATED CABLE

CONSTRUCTION

Conductor : Plain annealed copper

Insulation : PVC Compound

Colour of cores : Red, Yellow, Blue, Black, White and Green or Green/Yellow

BS 6004 & MS 136, 450 / 750 V

Nominal sectional area mm ²	Type of Conductor	Thickness of Insulation mm	Approx. overall diameter mm	Approx net weight Kg / Km
1.5	Solid circular	0.7	2.9	21
1.5	Circular stranded	0.7	3.0	23
2.5	Solid circular	0.8	3.5	33
2.5	Circular stranded	0.8	3.6	35
4	Circular stranded	0.8	4.2	51
6	Circular stranded	0.8	4.7	72
10	Circular stranded	1.0	6.1	120
16	Compacted circular stranded	1.0	6.8	175
25	Compacted circular stranded	1.2	8.4	280
35	Compacted circular stranded	1.2	9.6	370
50	Compacted circular stranded	1.4	11.2	500
70	Compacted circular stranded	1.4	12.9	710
95	Compacted circular stranded	1.6	15.0	980
120	Compacted circular stranded	1.6	16.6	1220
150	Compacted circular stranded	1.8	18.4	1490
185	Compacted circular stranded	2.0	20.6	1870
240	Compacted circular stranded	2.2	23.4	2450
300	Compacted circular stranded	2.4	26.1	3070
400	Compacted circular stranded	2.6	29.3	3920
500	Compacted circular stranded	2.8	32.7	4940
630	Compacted circular stranded	2.8	36.4	6280

PVC INSULATED, PVC SHEATHED UNARMoured CABLE

CONSTRUCTION

Conductor	: Plain annealed copper
Insulation	: PVC Compound
Colour of cores	: Single core - black
	: 2 cores - red and black
	: 3 cores - red, yellow and blue
	: 4 cores - red, yellow, blue and black
Formation	(i) Single core
	(ii) 2, 3 or 4 cores
	- stranded together and the interstices may be filled with non-hygroscopic material or the sheathing compound. A non-hygroscopic binder tape may be applied over the laid - up cores.
Sheath	: PVC Compound (Black)

PVC INSULATED, PVC SHEATHED UNARMoured CABLE (1 - CORE)

PVC / PVC

BS 6004 & MS 136, 300 / 500 V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
1.5	Solid circular	0.7	0.8	4.4	35
1.5	Circular stranded	0.7	0.8	4.6	38
2.5	Solid circular	0.8	0.8	5.0	50
2.5	Circular stranded	0.8	0.8	5.2	53
4	Circular stranded	0.8	0.9	6.0	74
6	Circular stranded	0.8	0.9	6.5	97
10	Circular stranded	1.0	0.9	7.9	150
16	Compacted circular stranded	1.0	1.0	8.8	220
25	Compacted circular stranded	1.2	1.1	10.6	330
35	Compacted circular stranded	1.2	1.1	11.8	430

PVC / PVC

BS 6346 & MS 274, 600 / 1000 V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
50	Compacted circular stranded	1.4	1.4	14.0	590
70	Compacted circular stranded	1.4	1.4	15.7	810
95	Compacted circular stranded	1.6	1.5	18.0	1100
120	Compacted circular stranded	1.6	1.5	19.6	1360
150	Compacted circular stranded	1.8	1.6	21.6	1650
185	Compacted circular stranded	2.0	1.7	24.0	2060
240	Compacted circular stranded	2.2	1.8	27.0	2670
300	Compacted circular stranded	2.4	1.9	29.9	3330
400	Compacted circular stranded	2.6	2.0	33.3	4220
500	Compacted circular stranded	2.8	2.1	36.9	5290
630	Compacted circular stranded	2.8	2.2	40.8	6690
800	Circular stranded	2.8	2.3	47.3	8560
1000	Circular stranded	3.0	2.5	52.6	10730

PVC INSULATED, PVC SHEATHED UNARMoured CABLE (2 - CORE)

PVC / PVC

BS 6004 & MS 136, 300 / 500 V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	Kg / Km
1.5	Circular stranded	0.7	1.2	8.9	110
2.5	Circular stranded	0.8	1.2	9.7	140
4	Circular stranded	0.8	1.2	11.2	200
6	Circular stranded	0.8	1.2	12.3	260

PVC / PVC

BS 6346 & MS 274, 600 / 1000 V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	Kg / Km
10	Circular stranded	1.0	1.8	16.2	450
16	Compacted circular stranded	1.0	1.8	17.7	600
25	Compacted circular stranded	1.2	1.8	21.0	880
35	Compacted circular stranded	1.2	1.8	23.3	1130
50	Shaped stranded	1.4	1.8	22.7	1220
70	Shaped stranded	1.4	1.9	25.5	1670
95	Shaped stranded	1.6	2.0	29.2	2270
120	Shaped stranded	1.6	2.1	31.8	2800
150	Shaped stranded	1.8	2.2	35.0	3410
185	Shaped stranded	2.0	2.4	39.1	4270
240	Shaped stranded	2.2	2.5	43.9	5560
300	Shaped stranded	2.4	2.7	48.6	6930
400	Shaped stranded	2.6	2.9	53.9	8770

PVC INSULATED, PVC SHEATHED UNARMoured CABLE (3 - CORE)

PVC / PVC

BS 6004 & MS 136, 300 / 500 V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	Kg / Km
1.5	Circular stranded	0.7	1.2	9.4	130
2.5	Circular stranded	0.8	1.2	10.7	180
4	Circular stranded	0.8	1.2	11.9	240
6	Circular stranded	0.8	1.4	13.5	330

PVC / PVC

BS 6346 & MS 274, 600 / 1000 V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	Kg / Km
10	Circular stranded	1.0	1.8	17.2	530
16	Compacted circular stranded	1.0	1.8	18.7	730
25	Compacted circular stranded	1.2	1.8	22.3	1090
35	Compacted circular stranded	1.2	1.8	24.8	1410
50	Shaped stranded	1.4	1.8	26.1	1810
70	Shaped stranded	1.4	1.9	29.5	2480
95	Shaped stranded	1.6	2.1	34.1	3390
120	Shaped stranded	1.6	2.2	37.1	4180
150	Shaped stranded	1.8	2.3	40.9	5110
185	Shaped stranded	2.0	2.5	45.7	6410
240	Shaped stranded	2.2	2.6	51.4	8360
300	Shaped stranded	2.4	2.8	57.0	10420
400	Shaped stranded	2.6	3.1	63.6	13210

PVC INSULATED, PVC SHEATHED UNARMoured WITH REDUCED NEUTRAL CABLE (3C + E)

CONSTRUCTION

Conductor	:	Plain annealed copper
Insulation	:	PVC Compound
Colour of cores	:	Red, yellow, blue and green / yellow (neutral)
Formation	:	Stranded together and the interstices may be filled with non-hygroscopic material or the sheathing compound. A non-hygroscopic binder tape may be applied over the laid - up cores.
Sheath	:	PVC Compound (Black)

PVC / PVC BS 6346 & MS 274, 600 / 1000V

Phase Conductor			Neutral Conductor			Thickness of sheath	Approx. overall diameter	Approx. net weight
Nominal sectional area	Type of conductor	Thickness of insulation	Nominal sectional area	Construction, Number / Wire diameter	Thickness of insulation			
mm ²		mm	mm ²	No. / mm	mm	mm	mm	Kg / Km
25	CCS*	1.2	16	CS*	1.0	1.8	24.1	1320
35	CCS*	1.2	16	CS*	1.0	1.8	26.9	1690
50	SS*	1.4	25	CS*	1.2	1.9	29.2	2240
70	SS*	1.4	35	CS*	1.2	2.0	33.1	3050
95	SS*	1.6	50	CS*	1.4	2.1	38.1	4140
120	SS*	1.6	70	CS*	1.4	2.2	41.5	5170
150	SS*	1.8	70	CS*	1.4	2.4	46.0	6210
185	SS*	2.0	95	CS*	1.6	2.5	51.0	7790
240	SS*	2.2	120	CS*	1.6	2.7	57.7	10090
300	SS*	2.4	150	CS*	1.8	2.9	64.0	12550
300	SS*	2.4	185	CS*	2.0	2.9	64.0	12820
400	SS*	2.6	185	CS*	2.0	3.2	71.6	15930

Remarks : *CS = Circular stranded, CCS = Compacted circular stranded, SS = Shaped stranded

PVC INSULATED, PVC SHEATHED UNARMoured CABLE (4 - CORE)

PVC / PVC BS 6004 & MS 136, 300 / 500 V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
1.5	Circular stranded	0.7	1.2	10.2	160
2.5	Circular stranded	0.8	1.2	11.7	220
4	Circular stranded	0.8	1.4	13.4	310
6	Circular stranded	0.8	1.4	14.7	410

BS 6346 & MS 274, 600 / 1000 V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
10	Circular stranded	1.0	1.8	18.3	670
16	Compacted circular stranded	1.0	1.8	20.1	930
25	Compacted circular stranded	1.2	1.8	24.1	1390
35	Compacted circular stranded	1.2	1.8	26.9	1840
50	Shaped stranded	1.4	1.9	29.2	2440
70	Shaped stranded	1.4	2.0	33.1	3350
95	Shaped stranded	1.6	2.2	38.3	4580
120	Shaped stranded	1.6	2.3	41.7	5650
150	Shaped stranded	1.8	2.5	46.2	6910
185	Shaped stranded	2.0	2.6	51.2	8600
240	Shaped stranded	2.2	2.8	57.9	11180
300	Shaped stranded	2.4	3.1	64.4	13970
400	Shaped stranded	2.6	3.3	71.8	17750

PVC INSULATED, PVC SHEATHED ARMoured CABLE

CONSTRUCTION

Conductor	: Plain annealed copper
Insulation	: PVC Compound
Colour of cores	: Single cores - black
	: 2 cores - red and black
	: 3 cores - red, yellow and blue
	: 4 cores - red, yellow, and blue
Formation	: (i) Single core
	: (ii) 2, 3 or 4 cores
	- stranded together and the interstices may be filled with non-hygroscopic material or the sheathing compound. A non-hygroscopic binder tape may be applied over the laid-up cores.
Bedding	: PVC Compound (Black)
Armour	: (i) Single core - Aluminium wire
	: (ii) 2, 3 or 4 cores - Galvanised steel wire
Sheath	: PVC Compound (Black)

PVC INSULATED, PVC SHEATHED ARMoured CABLE (1 - CORE)

PVC / PVC / SWA / PVC BS 6346 & MS 274, 600 / 1000V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation mm	Thickness of bedding mm	Diameter of armour wire mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
50	Compacted circular stranded	1.4	0.8	1.25	1.5	18.3	800
70	Compacted circular stranded	1.4	0.8	1.25	1.6	20.2	1050
95	Compacted circular stranded	1.6	0.8	1.25	1.6	22.3	1360
120	Compacted circular stranded	1.6	1.0	1.6	1.7	25.7	1730
150	Compacted circular stranded	1.8	1.0	1.6	1.7	27.5	2050
185	Compacted circular stranded	2.0	1.0	1.6	1.8	29.9	2490
240	Compacted circular stranded	2.2	1.0	1.6	1.9	32.9	3160
300	Compacted circular stranded	2.4	1.0	1.6	1.9	35.6	3850
400	Compacted circular stranded	2.6	1.2	2.0	2.1	40.4	4950
500	Compacted circular stranded	2.8	1.2	2.0	2.1	43.8	6070
630	Compacted circular stranded	2.8	1.2	2.0	2.2	47.7	7550
800	Circular stranded	2.8	1.4	2.5	2.4	55.8	9790
1000	Circular stranded	3.0	1.4	2.5	2.5	60.9	12060

PVC INSULATED, PVC SHEATHED ARMoured CABLE (2 - CORE)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation	Thickness of bedding	Diameter of armour wire	Thickness of sheath	Approx. overall diameter	Approx. net weight
		mm	mm	mm	mm	mm	Kg / Km
1.5	Circular stranded	0.6	0.8	0.9	1.4	11.9	300
2.5	Circular stranded	0.7	0.8	0.9	1.4	13.1	360
4	Circular stranded	0.8	0.8	0.9	1.4	14.6	440
6	Circular stranded	0.8	0.8	0.9	1.5	15.9	530
10	Circular stranded	1.0	0.8	1.25	1.6	19.5	850
16	Compacted circular stranded	1.0	0.8	1.25	1.6	21.0	1020
25	Compacted circular stranded	1.2	1.0	1.6	1.7	25.6	1570
35	Compacted circular stranded	1.2	1.0	1.6	1.8	28.1	1910
50	Shaped stranded	1.4	1.0	1.6	1.9	27.9	2080
70	Shaped stranded	1.4	1.0	1.6	1.9	30.5	2620
95	Shaped stranded	1.6	1.2	2.0	2.1	35.6	3630
120	Shaped stranded	1.6	1.2	2.0	2.2	38.1	4300
150	Shaped stranded	1.8	1.2	2.0	2.3	41.3	5040
185	Shaped stranded	2.0	1.4	2.5	2.4	47.4	6480
240	Shaped stranded	2.2	1.4	2.5	2.5	52.1	7980
300	Shaped stranded	2.4	1.6	2.5	2.7	57.1	9670
400	Shaped stranded	2.6	1.6	2.5	2.9	62.6	11810

PVC INSULATED, PVC SHEATHED ARMoured CABLE (3 - CORE)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Nominal sectional area mm ²	Type of Conductor	Thickness of insulation	Thickness of bedding	Diameter of armour wire	Thickness of sheath	Approx. overall diameter	Approx. net weight
		mm	mm	mm	mm	mm	Kg / Km
1.5	Circular stranded	0.6	0.8	0.9	1.4	12.3	330
2.5	Circular stranded	0.7	0.8	0.9	1.4	13.6	400
4	Circular stranded	0.8	0.8	0.9	1.4	15.2	510
6	Circular stranded	0.8	0.8	1.25	1.5	17.4	730
10	Circular stranded	1.0	0.8	1.25	1.6	20.4	990
16	Compacted circular stranded	1.0	0.8	1.25	1.6	22.0	1230
25	Compacted circular stranded	1.2	1.0	1.6	1.7	26.9	1900
35	Compacted circular stranded	1.2	1.0	1.6	1.8	29.6	2340
50	Shaped stranded	1.4	1.0	1.6	1.9	31.2	2790
70	Shaped stranded	1.4	1.2	2.0	2.0	35.8	3870
95	Shaped stranded	1.6	1.2	2.0	2.1	40.2	4960
120	Shaped stranded	1.6	1.2	2.0	2.2	43.2	5890
150	Shaped stranded	1.8	1.4	2.5	2.4	49.5	7480
185	Shaped stranded	2.0	1.4	2.5	2.5	53.9	8940
240	Shaped stranded	2.2	1.6	2.5	2.6	59.9	11210
300	Shaped stranded	2.4	1.6	2.5	2.8	65.4	13560
400	Shaped stranded	2.6	1.6	2.5	3.0	71.9	16730

PVC INSULATED, PVC SHEATHED ARMoured WITH REDUCED NEUTRAL CABLE (3C + E)

CONSTRUCTION

Conductor	: Plain annealed copper
Insulation	: PVC Compound
Colour of cores	: Red, yellow, blue and green / yellow (neutral)
Formation	: Stranded together and the interstices may be filled with non-hygroscopic material or the sheathing compound. A non-hygroscopic binder tape may be applied over the laid - up cores.
Bedding	: PVC Compound (Black)
Armour	: Galvanised steel wire
Sheath	: PVC Compound (Black)

PVC / PVC / SWA / PVC BS 6346 & MS 274, 600 / 1000V

Phase Conductor			Neutral Conductor			Thickness of bedding	Diameter of armour wire	Thickness of sheath	Approx. overall diameter	Approx. net weight
Nominal sectional area	Type of conductor	Thickness of insulation	Nominal sectional area	Construction, Number / Wire diameter	Thickness of insulation					
mm ²		mm	mm ²	No. / mm	mm	mm	mm	mm	mm	Kg / Km
25	CCS*	1.2	16	CS*	1.0	1.0	1.6	1.8	29.3	2240
35	CCS*	1.2	16	CS*	1.0	1.0	1.6	1.8	32.1	2700
50	SS*	1.4	25	CS*	1.2	1.0	1.6	1.9	34.4	3340
70	SS*	1.4	35	CS*	1.2	1.2	2.0	2.0	39.5	4600
95	SS*	1.6	50	CS*	1.4	1.2	2.0	2.2	44.7	5930
120	SS*	1.6	70	CS*	1.4	1.4	2.5	2.3	50.5	7610
150	SS*	1.8	70	CS*	1.4	1.4	2.5	2.4	54.8	8880
185	SS*	2.0	95	CS*	1.6	1.4	2.5	2.5	59.8	10710
240	SS*	2.2	120	CS*	1.6	1.6	2.5	2.7	66.9	13460
300	SS*	2.4	150	CS*	1.8	1.6	2.5	2.9	73.2	16230
300	SS*	2.4	185	CS*	2.0	1.6	2.5	2.9	73.2	16510
400	SS*	2.6	185	CS*	2.0	1.8	3.15	3.1	82.3	21050

Remarks : *CS = Circular stranded, CCS = Compacted circular stranded, SS = Shaped stranded

PVC INSULATED, PVC SHEATHED ARMoured CABLE (4 - CORE)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of bedding	Diameter of armour wire	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	mm	mm	Kg / Km
1.5	Circular stranded	0.6	0.8	0.9	1.4	13.0	370
2.5	Circular stranded	0.7	0.8	0.9	1.4	14.5	460
4	Circular stranded	0.8	0.8	1.25	1.5	17.2	700
6	Circular stranded	0.8	0.8	1.25	1.5	18.6	850
10	Circular stranded	1.0	0.8	1.25	1.6	22.0	1180
16	Compacted circular stranded	1.0	1.0	1.6	1.7	25.1	1680
25	Compacted circular stranded	1.2	1.0	1.6	1.8	29.3	2310
35	Compacted circular stranded	1.2	1.0	1.6	1.9	32.3	2870
50	Shaped stranded	1.4	1.2	2.0	2.0	35.8	3840
70	Shaped stranded	1.4	1.2	2.0	2.1	39.7	4910
95	Shaped stranded	1.6	1.2	2.0	2.2	44.7	6350
120	Shaped stranded	1.6	1.4	2.5	2.4	50.7	8100
150	Shaped stranded	1.8	1.4	2.5	2.5	55.0	9590
185	Shaped stranded	2.0	1.6	2.5	2.6	60.4	11620
240	Shaped stranded	2.2	1.6	2.5	2.8	67.1	11560
300	Shaped stranded	2.4	1.6	2.5	3.0	73.4	17630
400	Shaped stranded	2.6	1.8	3.15	3.3	82.7	22920

PVC INSULATED, PVC SHEATHED ARMoured CABLE (5 - CORE)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Nominal sectional area	Type of Conductor	Thickness of insulation	Thickness of bedding	Diameter of armour wire	Thickness of sheath	Approx. overall diameter	Approx. net weight
mm ²		mm	mm	mm	mm	mm	Kg / Km
1.5	Circular stranded	0.6	0.8	0.9	1.4	14.5	430
2.5	Circular stranded	0.7	0.8	0.9	1.5	16.4	550
4	Circular stranded	0.8	0.8	1.25	1.5	19.1	820
6	Circular stranded	0.8	0.8	1.25	1.6	20.8	990
10	Circular stranded	1.0	1.0	1.6	1.7	25.7	1570
16	Compacted circular stranded	1.0	1.0	1.6	1.7	27.7	1940
25	Compacted circular stranded	1.2	1.0	1.6	1.9	32.5	2700
35	Compacted circular stranded	1.2	1.0	1.6	1.9	35.8	3340
50	Compacted circular stranded	1.4	1.2	2.0	2.1	41.9	4630
70	Compacted circular stranded	1.4	1.2	2.0	2.2	46.7	5970

PVC INSULATED, PVC SHEATHED ARMoured AUXILIARY CABLE (1.5 mm²)

CONSTRUCTION

Conductor	: Plain annealed copper
Insulation	: PVC Compound
Colour of cores	: White insulation core with numbering
Formation	: Stranded together and the interstices may be filled with non-hygroscopic material or the sheathing compound. A non-hygroscopic binder tape may be applied over the laid - up cores.
Bedding	: PVC Compound (Black)
Armour	: Galvanised steel wire
Sheath	: PVC Compound (Black)

PVC / PVC / SWA / PVC BS 6346 & MS 274, 600 / 1000V

Number of Core	Nominal sectional area mm ²	Construction	Thickness of insulation mm	Thickness of bedding mm	Diameter of armour wire mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
		Number / Wire diameter						
		No. / mm						
5	1.5	7/0.53	0.6	0.8	0.9	1.4	13.8	410
6	1.5	7/0.53	0.6	0.8	0.9	1.4	14.7	470
7	1.5	7/0.53	0.6	0.8	0.9	1.4	14.7	480
9	1.5	7/0.53	0.6	0.8	1.25	1.5	17.3	700
10	1.5	7/0.53	0.6	0.8	1.25	1.5	18.4	750
12	1.5	7/0.53	0.6	0.8	1.25	1.5	18.8	800
19	1.5	7/0.53	0.6	0.8	1.25	1.6	21.4	1060
27	1.5	7/0.53	0.6	1.0	1.6	1.7	25.9	1550
37	1.5	7/0.53	0.6	1.0	1.6	1.8	28.4	1890
48	1.5	7/0.53	0.6	1.0	1.6	1.9	31.9	2300

PVC INSULATED, PVC SHEATHED ARMoured AUXILIARY CABLE (2.5 mm²)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Number of core	Nominal sectional area mm ²	Construction	Thickness of insulation mm	Thickness of bedding mm	Diameter of armour wire mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
		Number / Wire diameter No. / mm						
5	2.5	7/0.67	0.7	0.8	0.9	1.5	15.7	530
6	2.5	7/0.67	0.7	0.8	1.25	1.5	17.4	700
7	2.5	7/0.67	0.7	0.8	1.25	1.5	17.4	720
9	2.5	7/0.67	0.7	0.8	1.25	1.6	19.7	900
10	2.5	7/0.67	0.7	0.8	1.25	1.6	21.0	970
12	2.5	7/0.67	0.7	0.8	1.25	1.6	21.6	1050
19	2.5	7/0.67	0.7	1.0	1.6	1.7	25.7	1590
27	2.5	7/0.67	0.7	1.0	1.6	1.8	29.9	2060
37	2.5	7/0.67	0.7	1.0	1.6	1.9	33.0	2550
48	2.5	7/0.67	0.7	1.2	2.0	2.1	38.6	3460

PVC INSULATED, PVC SHEATHED ARMoured AUXILIARY CABLE (4 mm²)

PVC / PVC / SWA / PVC
BS 6346 & MS 274, 600 / 1000V

Number of core	Nominal sectional area mm ²	Construction	Thickness of insulation mm	Thickness of bedding mm	Diameter of armour wire mm	Thickness of sheath mm	Approx. overall diameter mm	Approx. net weight Kg / Km
		Number / Wire diameter No. / mm						
5	4	7/0.85	0.8	0.8	1.25	1.6	18.6	800
6	4	7/0.85	0.8	0.8	1.25	1.6	19.9	910
7	4	7/0.85	0.8	0.8	1.25	1.6	19.9	940
9	4	7/0.85	0.8	1.0	1.6	1.7	23.7	1350
10	4	7/0.85	0.8	1.0	1.6	1.7	25.3	1470
12	4	7/0.85	0.8	1.0	1.6	1.7	25.9	1590
19	4	7/0.85	0.8	1.0	1.6	1.8	29.7	2130
27	4	7/0.85	0.8	1.2	2.0	2.0	36.1	3090
37	4	7/0.85	0.8	1.2	2.0	2.1	39.9	3850
48	4	7/0.85	0.8	1.2	2.0	2.2	44.8	4700

CURRENT-CARRYING CAPACITY FOR SINGLE-CORE, NON-ARMOURED WITH OR WITHOUT SHEATH TO BS 6004 AND BS 6346

Ambient temperature : 30°C, Conductor operating temperature : 70°C

Conductor cross sectional area	Current-carrying capacity										
	Method of installation										
	Enclosed in conduit in thermally insulated wall etc.		Enclosed in conduit or a wall or in trunking etc.		Clipped direct		On a perforated cable tray horizontal or vertical		In free air		
	2 cables, single- phase a.c. or d.c.	3 or 4 cables three- phase a.c.	2 cables, single- phase a.c. or d.c.	3 or 4 cables three- phase a.c.	2 cables, single- phase a.c. and touching	3 or 4 cables three- phase a.c. flat and touching or trefoil	2 cables, single- phase a.c. and touching	3 or 4 cables three- phase a.c. flat and touching or trefoil	2 cables, single- phase a.c. or d.c. or 3 cables three- phase a.c.	2 cables, single- phase a.c. or d.c. or 3 cables three- phase a.c.	3 cables, trefoil, three phase a.c.
mm ²	A	A	A	A	A	A	A	A	A	A	A
1.5	14.5	13.5	17.5	15.5	20	18	-	-	-	-	-
2.5	19.5	18	24	21	27	25	-	-	-	-	-
4	26	24	32	28	37	33	-	-	-	-	-
6	34	31	41	36	47	43	-	-	-	-	-
10	46	42	57	50	65	59	-	-	-	-	-
16	61	56	76	68	87	79	-	-	-	-	-
25	80	73	101	89	114	104	126	112	146	130	110
35	99	89	125	110	141	129	156	141	181	162	137
50	119	108	151	134	182	167	191	172	219	197	167
70	151	136	192	171	234	214	246	223	281	254	216
95	182	164	232	207	284	261	300	273	341	311	264
120	210	188	269	239	330	303	349	318	396	362	308
150	240	216	300	262	381	349	404	369	456	419	356
185	273	245	341	296	436	400	463	424	521	480	409
240	320	286	400	346	515	472	549	504	615	569	485
300	367	328	458	394	594	545	635	584	709	659	561
400	-	-	546	467	694	634	732	679	852	795	656
500	-	-	626	533	792	723	835	778	982	920	749
630	-	-	720	611	904	826	953	892	1138	1070	855
800	-	-	-	-	1030	943	1086	1020	1265	1188	971
1000	-	-	-	-	1154	1058	1216	1149	1420	1337	1079

VOLTAGE DROP FOR SINGLE-CORE, NON-ARMOURED WITH OR WITHOUT SHEATH TO BS 6004 AND BS 6346

VOLTAGE DROP

Conductor operating temperature : 70°C

Conductor cross sectional area	2 cable d.c.	2 cables, single-phase a.c.			3 or 4 cables, three-phase a.c.			
		Enclosed in conduit etc. in or on a wall	Clipped direct or on trays touching	In free air (spaced*)	Enclosed in conduit etc. in or on a wall	Clipped direct, on trays or in free air (in trefoil)	Clipped direct or on trays (flat and touching)	In free air (flat spaced*)
(mm ²)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)
1.5	29	29	29	29	25	25	25	25
2.5	18	18	18	18	15	15	15	15
4	11	11	11	11	9.5	9.5	9.5	9.5
6	7.3	7.3	7.3	7.3	6.4	6.4	6.4	6.4
10	4.4	4.4	4.4	4.4	3.8	3.8	3.8	3.8
16	2.8	2.8	2.8	2.8	2.4	2.4	2.4	2.4
25	1.75	1.80	1.75	1.80	1.55	1.50	1.55	1.55
35	1.25	1.30	1.25	1.30	1.10	1.10	1.10	1.15
50	0.93	1.00	0.95	0.97	0.85	0.82	0.84	0.86
70	0.63	0.72	0.66	0.69	0.61	0.57	0.60	0.63
95	0.46	0.56	0.50	0.54	0.48	0.43	0.47	0.51
120	0.36	0.47	0.41	0.45	0.41	0.36	0.40	0.44
150	0.29	0.41	0.34	0.39	0.36	0.30	0.34	0.40
185	0.23	0.37	0.29	0.35	0.32	0.26	0.31	0.36
240	0.180	0.33	0.25	0.31	0.29	0.22	0.27	0.34
300	0.145	0.31	0.22	0.29	0.27	0.190	0.25	0.32
400	0.105	0.29	0.20	0.27	0.25	0.175	0.24	0.31
500	0.086	0.28	0.185	0.26	0.25	0.160	0.23	0.30
630	0.068	0.27	0.175	0.25	0.24	0.150	0.22	0.29
800	0.053	-	0.165	0.25	-	0.145	0.22	0.29
1000	0.042	-	0.160	0.24	-	0.140	0.21	0.28

NOTE : * Spacings larger than those specified in free air will result in larger voltage drop.

CURRENT-CARRYING CAPACITY FOR MULTICORE, NON-ARMOURED TO BS 6004 AND BS 6346

Ambient temperature : 30°C, Conductor operating temperature : 70°C

Conductor cross sectional area	Current-carrying capacity							
	Method of installation							
	Enclosed in conduit in an insulated wall etc.		Enclosed in conduit on a wall or in trunking etc.		Clipped direct		On a perforated cable tray horizontal or in free air	
	1 two-core cable single-phase a.c. or d.c.	1 three-core cable or 1 four-core cable, three-phase a.c.	1 two-core cable single-phase a.c. or d.c.	1 three-core cable or 1 four-core cable, three-phase a.c.	1 two-core cable single-phase a.c. or d.c.	1 three-core cable or 1 four-core cable, three-phase a.c.	1 two-core cable single-phase a.c. or d.c.	1 three-core cable or 1 four-core cable, three-phase a.c.
mm ²	A	A	A	A	A	A	A	A
1.5	14	13	16.5	15	19.5	17.5	22	18.5
2.5	18.5	17.5	23	20	27	24	30	25
4	25	23	30	27	36	32	40	34
6	32	29	38	34	46	41	51	43
10	43	39	52	46	63	57	70	60
16	57	52	69	62	85	76	94	80
25	75	68	90	80	112	96	119	101
35	92	83	111	99	138	119	148	126
50	110	99	133	118	168	144	180	153
70	139	125	168	149	213	184	232	196
95	167	150	201	179	258	223	282	238
120	192	172	232	206	299	259	328	276
150	219	196	258	225	344	299	378	319
185	248	223	294	255	392	341	434	364
240	291	261	344	297	461	403	514	430
300	334	298	394	339	530	464	593	497
400	-	-	470	402	634	557	715	597

VOLTAGE DROP FOR MULTICORE, NON-ARMOURED TO BS 6004 AND BS 6346

VOLTAGE DROP

Conductor operating temperature : 70°C

Conductor cross-section area	Two-core cable, d.c.	Two-core cable, single-phase a.c.	Three- or four-core cable, three-phase a.c.
(mm ²)	(mV / A/m)	(mV / A/m)	(mV / A/m)
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5
6	7.3	7.3	6.4
10	4.4	4.4	3.8
16	2.8	2.8	2.4
25	1.75	1.75	1.50
35	1.25	1.25	1.10
50	0.93	0.94	0.81
70	0.63	0.65	0.57
95	0.46	0.50	0.43
120	0.36	0.41	0.35
150	0.29	0.34	0.29
185	0.23	0.29	0.25
240	0.180	0.24	0.21
300	0.145	0.21	0.185
400	0.105	0.185	0.160

CURRENT-CARRYING CAPACITY FOR SINGLE-CORE ARMOURED TO BS 6346

Ambient temperature : 30°C, Conductor operating temperature : 70°C

Conductor cross sectional area	Current-carrying capacity										
	Method of installation										
	Clipped direct		On a perforated cable tray		In free air						
	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables three-phase a.c. flat and touching	2 cables, single-phase a.c. or d.c. flat and touching	3 or 4 cables three-phase a.c. flat and touching	2 cables, single-phase a.c.		2 cables, d.c.		3 or 4 cables, three-phase a.c.		
mm ²	A	A	A	A	Horizontal flat spaced	Vertical flat spaced	Horizontal spaced	Vertical spaced	Horizontal flat spaced	Vertical flat spaced	3 cables trefoil
50	193	179	205	189	229	217	229	216	230	212	181
70	245	225	259	238	287	272	294	279	286	263	231
95	296	269	313	285	349	332	357	340	338	313	280
120	342	309	360	327	401	383	415	396	385	357	324
150	395	354	415	375	456	436	482	460	436	407	373
185	447	399	469	422	511	489	548	525	490	456	425
240	525	465	550	492	593	568	648	622	566	528	501
300	594	515	624	547	668	640	748	719	616	578	567
400	687	575	723	618	737	707	885	851	674	632	657
500	763	622	805	673	810	777	1035	997	721	676	731
630	843	669	891	728	893	856	1218	1174	771	723	809
800	919	710	976	777	943	905	1441	1390	824	772	886
1000	975	737	1041	808	1008	967	1685	1627	872	816	945

VOLTAGE DROP FOR SINGLE-CORE ARMOURED TO BS 6346

VOLTAGE DROP

Conductor operating temperature : 70°C

Conductor cross sectional area	2 cables d.c.	2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.		
		Clipped direct or on trays (touching)	In free air (spaced*)	Clipped direct, on trays or in free air (in trefoil touching)	Clipped direct or on trays (flat and touching)	In free air (flat spaced*)
(mm ²)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)	(mV / A/m)
50	0.93	0.95	0.97	0.82	0.84	0.86
70	0.63	0.68	0.72	0.58	0.62	0.68
95	0.46	0.52	0.58	0.45	0.50	0.57
120	0.36	0.43	0.50	0.37	0.43	0.50
150	0.29	0.37	0.44	0.32	0.38	0.45
185	0.23	0.32	0.39	0.27	0.34	0.41
240	0.180	0.27	0.35	0.23	0.30	0.37
300	0.145	0.24	0.32	0.21	0.28	0.34
400	0.105	0.22	0.30	0.195	0.26	0.32
500	0.086	0.21	0.29	0.180	0.25	0.30
630	0.068	0.195	0.27	0.170	0.23	0.28
800	0.053	0.185	0.25	0.160	0.22	0.26
1000	0.042	0.180	0.24	0.155	0.21	0.24

NOTE : * Spacings larger than those specified in free air will result in larger voltage drop.

CURRENT-CARRYING CAPACITY FOR MULTICORE, ARMoured TO BS 6346

Ambient temperature : 30°C, Conductor operating temperature : 70°C

Conductor cross sectional area	Current-carrying capacity			
	Method of installation			
	Clipped direct		On a perforated cable tray horizontal or vertical Or in free air	
	1 two-core cable, single-phase a.c. or d.c.	1 three- or four-core cable, three-phase a.c.	1 two-core cable, single-phase a.c. or d.c.	1 three- or four-core cable, three-phase a.c.
mm ²	A	A	A	A
1.5	21	18	22	19
2.5	28	25	31	26
4	38	33	41	35
6	49	42	53	45
10	67	58	72	62
16	89	77	97	83
25	118	102	128	110
35	145	125	157	135
50	175	151	190	163
70	222	192	241	207
95	269	231	291	251
120	310	267	336	290
150	356	306	386	332
185	405	348	439	378
240	476	409	516	445
300	547	469	592	410
400	621	540	683	590

VOLTAGE DROP FOR MULTICORE, ARMoured TO BS 6346

VOLTAGE DROP

Conductor operating temperature : 70°C

Conductor cross-sectional area	Two-core cable, d.c.	Two-core cable, single-phase a.c.	Three- or four-core cable three-phase a.c.
(mm ²)	(mV / A/m)	(mV / A/m)	(mV / A/m)
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5
6	7.3	7.3	6.4
10	4.4	4.4	3.8
16	2.8	2.8	2.4
25	1.75	1.75	1.50
35	1.25	1.25	1.10
50	0.93	0.94	0.81
70	0.63	0.65	0.57
95	0.46	0.50	0.43
120	0.36	0.41	0.35
150	0.29	0.34	0.29
185	0.23	0.29	0.25
240	0.180	0.24	0.21
300	0.145	0.21	0.185
400	0.105	0.185	0.160

RATING FACTORS FOR GROUPS OF MORE THAN ONE CIRCUIT OF SINGLE - CORE CABLES, OR MORE THAN ONE MULTICORE CABLES

Method of installation		Rating factor													
		Number of circuits or multicore cables													
		2	3	4	5	6	7	8	9	10	12	14	16	18	20
Enclosed, or bunched and clipped direct to a non-metallic surface		0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50	0.48	0.45	0.43	0.41	0.39	0.38
Single layer clipped to a non-metallic surface	Touching	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	-	-	-	-	-	-
	Spaced *	0.94	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Single layer multicore on a perforated metal cable tray, vertical or horizontal	Touching	0.86	0.81	0.77	0.75	0.74	0.73	0.73	0.72	0.71	0.70	-	-	-	-
	Spaced *	0.91	0.89	0.88	0.87	0.87	-	-	-	-	-	-	-	-	-
Single layer single - core on a perforated metal cable tray, touching	Horizontal	0.90	0.85	-	-	-	-	-	-	-	-	-	-	-	-
	Vertical	0.85	-	-	-	-	-	-	-	-	-	-	-	-	-
Single layer multicore touching on ladder support		0.86	0.82	0.80	0.79	0.78	0.78	0.78	0.77	-	-	-	-	-	-

* NOTE : Spaced by a clearance between adjacent surfaces of at least one cable diameter. Where the horizontal clearances between adjacent cables exceeds twice cable diameter no correction factor needs to be applied.

RATING FACTORS FOR CABLES INSTALLED IN ENCLOSED TRENCHES

Conductor cross sectional area	Rating factor									
	Trench size 450 mm wide x 300 mm deep				Trench size 450 mm wide x 600 mm deep			Trench size 600 mm wide x 760 mm deep		
	2 single core cables, or 1 three- or four core cables	3 single core cables or 2 two-core cables	4 single core cables, or 2 three- or four core cables	6 single core cables, 4 two-core cables or 3 three- or four-core cables	6 single core cables, 4 two-core cables or 3 three- or four-core cables	8 single core cables 4 three- or four core cables	12 single core cables 8 two- or 6 three- or four-core cables	12 single core cables 8 two- or 6 three- or four-core cables	18 single core cables, 12 two-core cables or 9 three- or four-core cables	24 single core cables, 16 two-core cables or 12 three- or four-core cables
mm ²										
4	0.93	0.90	0.87	0.82	0.86	0.83	0.76	0.81	0.74	0.69
6	0.92	0.89	0.86	0.81	0.86	0.82	0.75	0.80	0.73	0.68
10	0.91	0.88	0.85	0.80	0.85	0.80	0.74	0.78	0.72	0.66
16	0.91	0.87	0.84	0.78	0.83	0.78	0.71	0.76	0.70	0.64
25	0.90	0.86	0.82	0.76	0.81	0.76	0.69	0.74	0.67	0.62
35	0.89	0.85	0.81	0.75	0.80	0.74	0.68	0.72	0.66	0.60
50	0.88	0.84	0.79	0.74	0.78	0.73	0.66	0.71	0.64	0.59
70	0.87	0.82	0.78	0.72	0.77	0.72	0.64	0.70	0.62	0.57
95	0.86	0.81	0.76	0.70	0.75	0.70	0.63	0.68	0.60	0.55
120	0.85	0.80	0.75	0.69	0.73	0.68	0.61	0.66	0.58	0.53
150	0.84	0.78	0.74	0.67	0.72	0.67	0.59	0.64	0.57	0.51
185	0.83	0.77	0.73	0.65	0.70	0.65	0.58	0.63	0.55	0.49
240	0.82	0.76	0.71	0.63	0.69	0.63	0.56	0.61	0.53	0.48
300	0.81	0.74	0.69	0.62	0.68	0.62	0.54	0.59	0.52	0.46
400	0.80	0.73	0.67	0.59	0.66	0.60	0.52	0.57	0.50	0.44
500	0.78	0.72	0.66	0.58	0.64	0.58	0.51	0.56	0.48	0.43
630	0.77	0.71	0.65	0.56	0.63	0.57	0.49	0.54	0.47	0.41

* NOTE : When cables having different conductor operating temperatures are grouped together the current rating shall be based on the lowest operating temperature of any cable in the group.

RATING FACTORS FOR OTHER AMBIENT TEMPERATURES

Type of protection	Rating factor								
	Ambient temperature (°C)								
	25	30	35	40	45	50	55	60	65
Protective device is intended to provide short-circuit protection only *	1.03	1.0	0.94	0.87	0.79	0.71	0.61	0.50	0.35
Protective device is a semi-enclosed fuse to BS 3036	1.03	1.0	0.97	0.94	0.91	0.87	0.84	0.69	0.48

* NOTE : Except where the device is a semi-enclosed fuse to BS 3036, the factor also applies where the device is intended to provide overload protection

METRIC CONDUCTOR SIZES AND RESISTANCE (at 20°C)

Nominal cross-sectional area mm ²	Minimum number of wires in the conductor						Maximum resistance of conductor at 20°C		
	Circular conductor		Circular compacted conductor		Shaped conductor		Annealed copper conductor		Plain aluminium conductor
	Cu	Al	Cu	Al	Cu	Al	Plain wires	Metal-coated wires	
							ohm / km	ohm / km	ohm / km
1.5	7	-	6	-	-	-	12.1	12.2	-
2.5	7	-	6	-	-	-	7.41	7.56	-
4	7	7	6	-	-	-	4.61	4.70	7.41
6	7	7	6	-	-	-	3.08	3.11	4.61
10	7	7	6	-	-	-	1.83	1.84	3.08
16	7	7	6	6	-	-	1.15	1.16	1.91
25	7	7	6	6	6	6	0.727	0.734	1.20
35	7	7	6	6	6	6	0.524	0.529	0.868
50	19	19	6	6	6	6	0.387	0.391	0.641
70	19	19	12	12	12	12	0.268	0.270	0.443
95	19	19	15	15	15	15	0.193	0.195	0.320
120	37	37	18	15	18	15	0.153	0.154	0.253
150	37	37	18	15	18	15	0.124	0.126	0.206
185	37	37	30	30	30	30	0.0991	0.1000	0.164
240	61	61	34	30	34	30	0.0754	0.0762	0.125
300	61	61	34	30	34	30	0.0601	0.0607	0.100
400	61	61	53	53	53	53	0.0470	0.0475	0.0778
500	61	61	53	53	53	53	0.0366	0.0369	0.0605
630	91	91	53	53	53	53	0.0283	0.0286	0.0469
800	91	91	53	53	-	-	0.0221	0.0224	0.0367
1000	91	91	53	53	-	-	0.0176	0.0177	0.0291

FORMULA FOR ELECTRICAL CALCULATION

To calculate	Given	D.C.	A.C. single phase	A.C. 3 phase
Current (A)	kW	$A = \frac{1000 \times kW}{V}$	$A = \frac{1000 \times kW}{V \times pf}$	$A = \frac{100 \times kW}{1.73 \times V \times pf}$
Current (A)	kVA	-	$A = \frac{1000 \times kVA}{V}$	$A = \frac{100 \times kVA}{1.73 \times V}$
Current (A)	hp	$A = \frac{746 \times hp}{V \times eff}$	$A = \frac{746 \times hp}{V \times eff \times pf}$	$A = \frac{746 \times hp}{1.73 \times V \times eff \times pf}$
Power (kW)	VA	$kW = \frac{A \times V}{1000}$	$kW = \frac{A \times V \times pf}{1000}$	$kW = \frac{1.73 \times A \times V \times pf}{1000}$
Apparent Power (kVA)	VA	-	$kVA = \frac{A \times V}{1000}$	$kVA = \frac{1.73 \times A \times V}{1000}$

pf - Power factor of equipment or system under consideration

eff - Efficiency of motor or machinery

V - Line voltage

WIRE GAUGES

Gauge system		Diameter		Cross-sectional area			Weight of copper	Weight of aluminium
A.W.G.	S.W.G.	mm	mil	mm ²	sq. mil	CM	kg / km	kg / km
6/0	-	14.732	580	170.5	264200	336400	1515	460.2
5/0	-	13.119	516.5	135.2	209500	266800	1202	365.0
-	7/0	12.700	500	126.7	196400	250000	1126	342.0
-	6/0	11.786	464	109.1	169100	215300	969.9	294.6
4/0	-	11.684	460	107.2	166200	211600	953.2	289.5
-	5/0	10.973	432	94.56	146600	186600	840.6	255.3
3/0	-	10.404	409.6	85.01	131800	167800	755.8	229.5
-	4/0	10.16	400	81.07	125700	160000	720.7	218.9
-	3/0	9.449	372	70.12	108700	138400	623.4	189.3
2/0	-	9.266	364.8	67.43	104500	133100	599.5	182.1
-	2/0	8.839	348	61.36	95110	121100	545.5	165.7
0	-	8.252	324.9	53.49	82910	105600	475.5	144.4
-	0	8.230	324	53.19	82450	105000	472.9	143.6
-	1	7.620	300	45.60	70690	90000	405.4	123.1
1	-	7.348	289.3	42.41	65730	83690	377.0	114.5
-	2	7.011	276	38.60	59830	76180	343.2	104.2
2	-	6.544	257.6	33.63	52120	66370	299.0	90.80
-	3	6.401	252	32.18	49880	63500	286.1	86.88
-	4	5.893	232	27.27	42270	53820	242.4	73.63
3	-	5.827	229.4	26.66	41330	52620	237.0	71.99
-	5	5.385	212	22.77	35300	44940	202.4	61.49
4	-	5.189	204.3	21.15	32780	41730	188.0	57.10
-	6	4.877	192	18.68	28950	36860	166.1	50.43
5	-	4.621	181.9	16.77	26000	33100	149.1	45.28
-	7	4.470	176	15.69	24320	30970	139.5	42.37
6	-	4.115	162	13.30	20620	26250	118.3	35.92
-	8	4.064	160	12.97	20110	25600	115.3	35.02
7	-	3.665	144.3	10.55	16350	20820	93.78	28.48
-	9	3.658	144	10.51	16290	20740	93.41	28.37
8	-	3.264	128.5	8.367	12970	16510	74.39	22.59
-	10	3.251	128	8.302	12870	16380	73.80	22.42
-	11	2.946	116	6.818	10570	13460	60.61	18.41
9	-	2.906	114.4	6.633	10280	13090	58.96	17.91
-	12	2.642	104	5.481	8495	10820	48.72	14.80
10	-	2.588	101.9	5.261	8155	10380	46.77	14.21
-	13	2.337	92	4.289	6648	8465	38.13	11.58
11	-	2.305	90.74	4.172	6467	8234	37.09	11.26
12	-	2.053	80.81	3.309	5129	6531	29.42	8.935
-	14	2.032	80	3.243	5027	6400	28.83	8.756
-	15	1.829	72	2.627	4072	5185	23.35	7.093
13	-	1.828	71.96	2.624	4067	5178	23.33	7.085
14	-	1.628	64.08	2.081	3225	4107	18.50	5.618
-	16	1.626	64	2.075	3217	4096	18.45	5.604
15	-	1.450	57.07	1.650	2558	3257	14.67	4.456
-	17	1.422	56	1.589	2463	3136	14.13	4.290
16	-	1.291	50.82	1.309	2029	2583	11.63	3.534
-	18	1.219	48	1.167	1810	2304	10.38	3.152
17	-	1.150	45.26	1.0380	1609	2048	9.226	2.802
18	-	1.024	40.3	0.8227	1275	1624	7.314	2.221
-	19	1.016	40	0.8107	1257	1600	7.207	2.189
-	20	0.9144	36	0.6567	1018	1296	5.838	1.773
19	-	0.9117	35.89	0.6529	1012	1288	5.804	1.763
-	21	0.8128	32	0.5189	804.2	1024	4.613	1.401
20	-	0.8116	31.95	0.5174	801.9	1021	4.600	1.397
21	-	0.7230	28.46	0.4105	636.3	810.1	3.649	1.108

COMMON CONVERSION FACTOR

Equivalent				Reciprocal
Mass				
1 cwt	=	50.802	kg	0.0197
1 oz	=	28.349	gm	0.0352
1 ib	=	0.4536	kg	2.2046
1 ib	=	0.00454	tonne (metric)	220.26
1 ton (long)	=	1.016	tonne (metric)	0.09842
Length				
1 in	=	25.4	mm	0.03937
1 ft	=	0.3048	mm	3.2808
1 yd	=	0.9144	mm	1.0936
1 mile	=	1.6093	km	0.6214
Area				
1 in ²	=	645.16	mm ²	0.00155
1 ft ²	=	0.0929	m ²	10.7642
1 yd ²	=	0.8361	m ²	1.196
Volume				
1 in ³	=	16.387	cm ³ (ml or cc)	0.061
1 ft ³	=	0.0283	m ³	35.3335
1 ft ³	=	6.229	gal (Imp)	0.1605
1 ft ³	=	28.328	I	0.0353
1 yd ³	=	0.7645	m ³	1.3079
1 gal (USA)	=	0.8327	gal (Imp)	1.2009
Force				
1 Ibf	=	0.4535	kgf	2.2046
1 kgf	=	9.8065	N	0.1019
1 ton (long) f	=	9.964	kN	0.10036
Pressure and Stress				
1 atm	=	0.1013	MPa	9.869
1 atm	=	1.0133	bar	0.9869
1 Ibf / in ² (psi)	=	6.894	kN / mm ² (kPa)	0.145
1 bar	=	1.0197	kgf / cm ²	0.09806
Energy (Work and Heat)				
1 HP.h	=	2544.5	Btu	0.00393
1 Btu	=	0.000293	kW.h	3413
1 Btu	=	1.0551	kJ	0.9478
1 Btu	=	107.59	kgf.m	0.00929
1 cal	=	4.187	J	0.239

1 mil = 0.001 in = 0.0254 mm
 1 CM (Circular mil) = 0.7854 x 10⁻⁶ in² = 0.5067 x 10⁻³ mm²

PUBLICATIONS REFERRED TO

BS 6004	PVC - Insulated Cables (Non - Armoured) for Electrical Power and Lighting
BS 6346	PVC - Insulated Cables for Electricity Supply
BS 6360	Conductors in Insulated Cables and Cords
BS 6746	PVC insulation and Sheath of Electric Cables
BS 7655	Insulating and Sheathing Materials for cables Part 3 = PVC Insulating Compounds Section 3.1 : Harmonized Types Section 3.2 : Hard Grade Types Part 4 = PVC Sheathing Compounds Section 4.1 : Harmonized Types Section 4.2 : General Application Section 4.3 : Special Application - RF Cables
BS 7671	Requirements For Electrical Installations IEE Wiring Regulations, Sixteenth Edition
MS 136	PVC - Insulated Cables (Non - Armoured) for Electrical Power and Lighting
MS 274	PVC - Insulated Cables for Electricity Supply

The manufacturer reserves the right to modify or vary the construction or specification or any of the products at their discretion and without prior notice. The information contained herein is in line with the appropriate standards and sound electrical practice - it is believed to be reliable but as each applicant is unique, the manufacturer can accept no responsibility as to the suitability of any products for a particular use, or for any errors or omissions, unintentional or otherwise.