



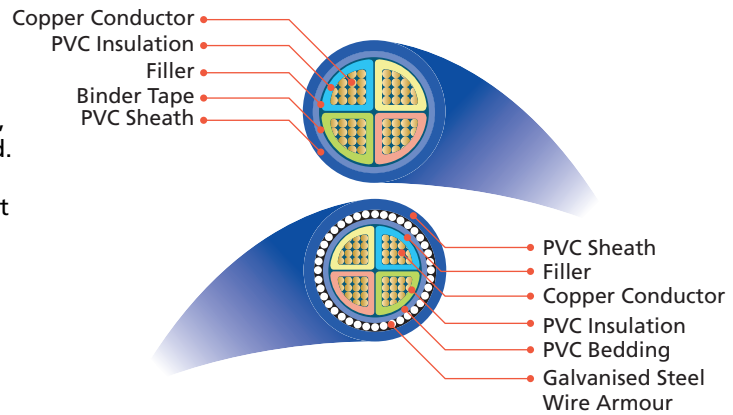
## PVC Insulated Cable

For Electricity Supply

## Description

Single core and multi – core cables with copper conductors , PVC insulated , unarmoured or armoured and PVC sheathed. The cables have been designed for general use (including underground) where the combination of ambient temperature and temperature rise due to load results in a conductor temperature not exceeding 70°C.

**Standards complied** : MS 274 , BS 6346  
**Rated voltage** : 600 / 1000 V



## Construction

### Conductors:

Plain annealed copper conductors complying with MS 69 , BS 6360. The conductors may be circular stranded or shaped stranded.

### Insulation :

PVC compound type TI 1

### Identification of cores :

Single core	red or black
Two-core	red and black
Three-core	red, yellow and blue
Four-core	red, yellow, blue and black
Five-core and above	(number) 1, 2, 3, 4, 5, upwards (auxiliary cables)

### Laying up (assembling) :

The cores of cable having two or more cores shall be laid up to form a compact and circular cable. Where necessary , non – hygroscopic fillers may be applied.

### Bedding :

Extruded PVC compound or lapped PVC tapes.

### Armour :

The armour shall consist of a single layer of galvanized steel wires. Where single-core cables are armoured and are use on AC circuit , the armour shall consist of non-magnetic material , such as aluminium wire.

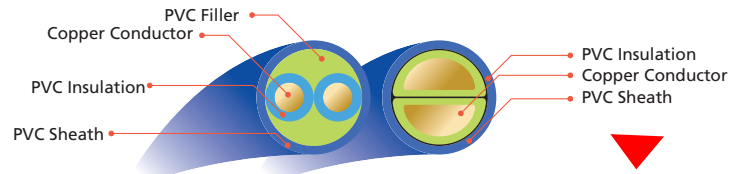
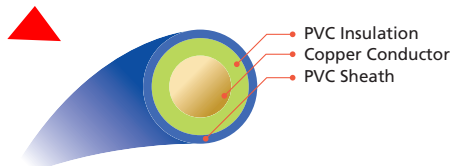
### Sheath :

PVC Compound Type TM 1 , black colour

**Single Core, Unarmoured with Stranded Copper Conductors**

600/1000V MS 274 / BS6346

Nominal area of conductor	Number and Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net weight
mm <sup>2</sup>	no / mm	mm	mm	mm	kg / km
50	19 / 1.78	1.4	1.4	15.1	610
70	19 / 2.14	1.4	1.4	16.9	830
95	37 / 1.78	1.6	1.5	19.4	1135
120	37 / 2.03	1.6	1.5	21.0	1390
150	37 / 2.25	1.8	1.6	23.2	1700
185	37 / 2.52	2.0	1.7	25.8	2110
240	61 / 2.25	2.2	1.8	29.0	2740
300	61 / 2.52	2.4	1.9	32.1	3400
400	61 / 2.85	2.6	2.0	35.8	4310
500	61 / 3.20	2.8	2.1	39.6	5380
630	127 / 2.52	2.8	2.2	43.8	6840
800	127 / 2.85	2.8	2.3	48.3	8610
1000	127 / 3.20	3.0	2.5	53.7	10750


**Two-Core, Unarmoured with Stranded Copper Conductors**

600/1000V MS 274 / BS6346

Nominal area of conductor	Number and Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net weight
mm <sup>2</sup>	no / mm	mm	mm	mm	kg / km
10	7 / 1.35	1.0	1.8	16.1	420
16	7 / 1.70	1.0	1.8	18.6	580
25§	19 / 1.35	1.2	1.8	18.4	750
25≠	19 / 1.35	1.2	1.8	22.1	950
35§	19 / 1.53	1.2	1.8	20.1	965
35≠	19 / 1.53	1.2	1.8	24.5	1225
50	19 / 1.78	1.4	1.8	22.8	1270
70	19 / 2.14	1.4	1.9	25.5	1735
95	37 / 1.78	1.6	2.0	29.3	2350
120	37 / 2.03	1.6	2.1	31.8	2890
150	37 / 2.25	1.8	2.2	35.1	3530
185	37 / 2.52	2.0	2.4	39.1	4430
240	61 / 2.25	2.2	2.5	43.9	5750
300	61 / 2.52	2.4	2.7	48.7	7190
400	61 / 2.85	2.6	2.9	54.2	9070

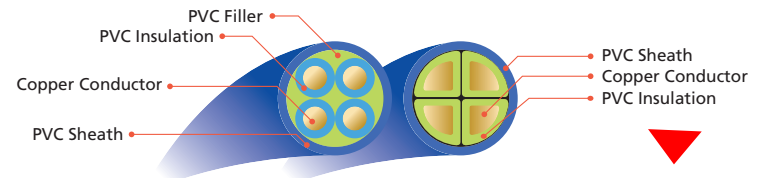
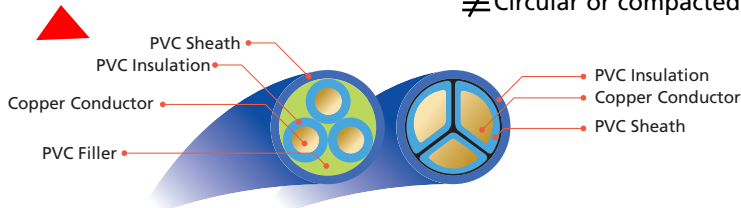
≠ Circular or compacted circular stranded conductors.    § Shaped stranded conductors

**Three - Core , Unarmoured with Stranded Copper Conductors 600/1000V MS 274 / BS6346**

Nominal area of conductor	Number and Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net weight
mm <sup>2</sup>	no / mm	mm	mm	mm	kg / km
10	7 / 1.35	1.0	1.8	17.0	585
16	7 / 1.70	1.0	1.8	19.7	820
25 §	19 / 1.35	1.2	1.8	20.4	1065
25 ≠	19 / 1.35	1.2	1.8	23.5	1230
35 §	19 / 1.53	1.2	1.8	22.4	1350
35 ≠	19 / 1.53	1.2	1.8	26.2	1580
50	19 / 1.78	1.4	1.8	25.5	1790
70	19 / 2.14	1.4	1.9	28.7	2460
95	37 / 1.78	1.6	2.1	33.3	3360
120	37 / 2.03	1.6	2.2	36.3	4140
150	37 / 2.25	1.8	2.3	40.0	5070
185	37 / 2.52	2.0	2.5	44.6	6360
240	61 / 2.25	2.2	2.6	50.1	8300
300	61 / 2.52	2.4	2.8	55.6	10350
400	61 / 2.85	2.6	3.1	62.2	13120

≠ Circular or compacted circular stranded conductors.

§ Shaped stranded conductors


**Four - Core , Unarmoured with Stranded Copper Conductors 600/1000V MS 274 / BS6346**

Nominal area of conductor	Number and Diameter of Wires	Thickness of Insulation	Thickness of Sheath	Approx. Overall Diameter	Approx. Net weight
mm <sup>2</sup>	no / mm	mm	mm	mm	kg / km
10	7/1.35	1.0	1.8	18.6	710
16	7/1.70	1.0	1.8	21.6	950
25 §	19/1.35	1.2	1.8	22.9	1280
25 ≠	19/1.35	1.2	1.8	25.9	1550
35 §	19/1.53	1.2	1.8	25.4	1730
35 ≠	19/1.53	1.2	1.8	28.9	2015
50	19/1.78	1.4	1.9	29.2	2310
70	37/1.78	1.4	2.0	33.0	3200
95	19/2.52	1.6	2.2	38.3	4380
120	37/2.03	1.6	2.3	41.8	5430
150	37/2.25	1.8	2.5	46.3	6680
185	37/2.25	1.8	2.6	51.3	8330
240	37/2.52	2.0	2.8	58.0	10900
300	61/2.52	2.4	3.1	64.6	13650
400	61/2.85	2.6	3.3	72.0	17300

≠ Circular or compacted circular stranded conductors.

§ Shaped stranded conductors

**Single Core , Armoured with Stranded Copper Conductors 600/1000V MS 274 / BS6346**

Nominal area of conductor	Number and diameter of wires	Thickness of Insulation	Thickness of extruded bedding	Nominal armour wire diameter	Thickness of oversheath	Approx overall diameter	Approx net weight	
							Steel wire armoured	Aluminium wire armoured
mm <sup>2</sup>	no/mm	mm	mm	mm	mm	mm	kg/km	kg/km
50	19 / 1.78	1.4	0.8	1.25	1.5	19.1	1080	840
70	19 / 2.14	1.4	0.8	1.25	1.6	21.1	1340	1090
95	37 / 1.78	1.6	0.8	1.25	1.6	23.4	1700	1410
120	37 / 2.03	1.6	1.0	1.6	1.7	26.3	2200	1790
150	37 / 2.25	1.8	1.0	1.6	1.7	28.3	2540	2110
185	37 / 2.52	2.0	1.0	1.6	1.8	30.8	3040	2560
240	61 / 2.25	2.2	1.0	1.6	1.9	34.1	3780	3260
300	61 / 2.52	2.4	1.0	1.6	1.9	37.0	4570	3970
400	61 / 2.85	2.6	1.2	2.0	2.1	42.0	5950	5100
500	61 / 3.20	2.8	1.2	2.0	2.1	45.6	7120	6230
630	127 / 2.52	2.8	1.2	2.0	2.2	49.7	8760	7720
800	127 / 2.85	2.8	1.4	2.5	2.4	55.8	11330	9860
1000	127 / 3.20	3.0	1.4	2.5	2.5	61.0	13780	12140

\*\*\*Drawing - Please refer to page 24\*\*\*

**Two-Core , Armoured with Stranded Copper Conductors 600/1000V MS 274 / BS6346**

Nominal area of conductor	Number and diameter of wires	Thickness of Insulation	Thickness of bedding		Nominal armour wire diameter	Thickness of oversheath	Approx overall diameter		Apporox net weight	
			Extruded	Lapped			Extruded bedding	lapped bedding	Extruded bedding	Lapped bedding
mm <sup>2</sup>	no/mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1.5	7/0.53	0.6	0.8	•	0.9	1.4	12.6	•	320	•
2.5	7/0.67	0.7	0.8	•	0.9	1.4	13.6	•	380	•
4	7/0.85	0.8	0.8	•	0.9	1.4	15.1	•	480	•
6	7/1.04	0.8	0.8	•	0.9	1.5	16.5	•	530	•
10	7/1.35	1.0	0.8	0.8	1.25	1.6	20.1	20.1	880	870
16	7/1.70	1.0	0.8	0.8	1.25	1.6	21.9	21.9	1100	1090
25§	19/1.35	1.2	1.0	0.8	1.6	1.7	23.0	22.6	1450	1415
25 ≠	19/1.35	1.2	1.0	0.8	1.6	1.7	26.7	26.3	1640	1625
35§	19/1.53	1.2	1.0	0.8	1.6	1.8	24.9	24.5	1735	1715
35 ≠	19/1.53	1.2	1.0	0.8	1.6	1.8	29.4	29.0	2030	1980
50	19/1.78	1.4	1.0	0.8	1.6	1.9	27.8	27.4	2160	2140
70	19/2.14	1.4	1.0	0.8	1.6	1.9	30.4	30.0	2680	2630
95	37/1.78	1.6	1.2	0.8	2.0	2.1	35.5	34.7	3720	3660
120	37/2.03	1.6	1.2	0.8	2.0	2.2	38.0	37.2	4300	4240
150	37/2.25	1.8	1.2	0.8	2.0	2.3	41.3	40.5	5070	5030
185	37/2.52	2.0	1.4	0.8	2.5	2.4	46.4	45.2	6550	6480
240	61/2.25	2.2	1.4	0.8	2.5	2.5	51.2	50.5	8180	8050
300	61/2.52	2.4	1.6	0.8	2.5	2.7	56.4	54.8	9950	9730
400	61/2.85	2.6	1.6	0.8	2.5	2.9	61.9	60.3	12070	11830

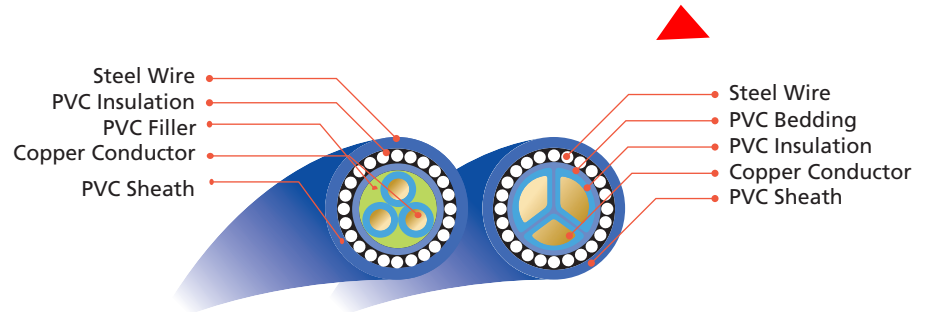
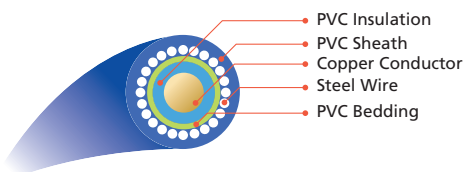
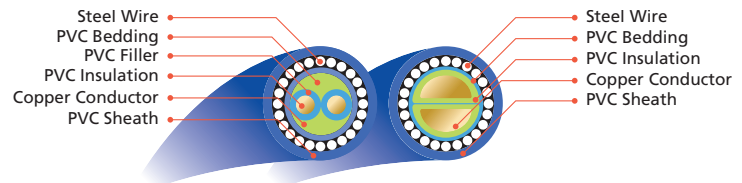
≠ Circular or compacted circular stranded conductors.

§ Shaped stranded conductors

**Three - Core , Armoured with Stranded Copper Conductors** 600/1000V MS 274 / BS6346

Nominal area of conductor	Number and diameter of wires	Thickness of Insulation	Thickness of bedding		Nominal armour wire diameter	Thickness of oversheath	Approx overall diameter		Approx net weight	
			Extruded	Lapped			Extruded bedding	Lapped bedding	Extruded Bedding	Lapped bedding
mm <sup>2</sup>	no/mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1.5	7/0.53	0.6	0.8	•	0.9	1.4	13.0	•	350	•
2.5	7/0.67	0.7	0.8	•	0.9	1.4	14.1	•	415	•
4	7/0.85	0.8	0.8	•	0.9	1.4	15.8	•	540	•
6	7/1.04	0.8	0.8	•	1.25	1.5	18.0	•	725	•
10	7/1.35	1.0	0.8	0.8	1.25	1.6	21.2	21.2	1040	1030
16	7/1.70	1.0	0.8	0.8	1.25	1.6	23.1	23.1	1250	1240
25 $\S$	19/1.35	1.2	1.0	0.8	1.6	1.7	25.0	24.6	1810	1770
25 $\neq$	19/1.35	1.2	1.0	0.8	1.6	1.7	28.2	27.8	1900	1875
35 $\S$	19/1.53	1.2	1.0	0.8	1.6	1.8	27.3	26.9	2220	2180
35 $\neq$	19/1.53	1.2	1.0	0.8	1.6	1.8	31.0	30.6	2370	2330
50	19/1.78	1.4	1.0	0.8	1.6	1.9	30.5	30.1	2740	2720
70	19/2.14	1.4	1.2	0.8	2.0	2.0	35.0	34.2	3820	3740
95	37/1.78	1.6	1.2	0.8	2.0	2.1	39.3	38.5	4870	4810
120	37/2.03	1.6	1.2	0.8	2.0	2.2	42.2	41.4	5720	5660
150	37/2.25	1.8	1.4	0.8	2.5	2.4	47.5	46.3	7300	7220
185	37/2.52	2.0	1.4	0.8	2.5	2.5	51.9	50.7	8780	8660
240	61/2.25	2.2	1.6	0.8	2.5	2.6	57.8	56.2	11110	10930
300	61/2.52	2.4	1.6	0.8	2.5	2.8	63.2	61.6	13470	13230
400	61/2.85	2.6	1.6	0.8	2.5	3.0	69.6	68.0	16540	16290

 $\neq$  Circular or compacted circular stranded conductors.

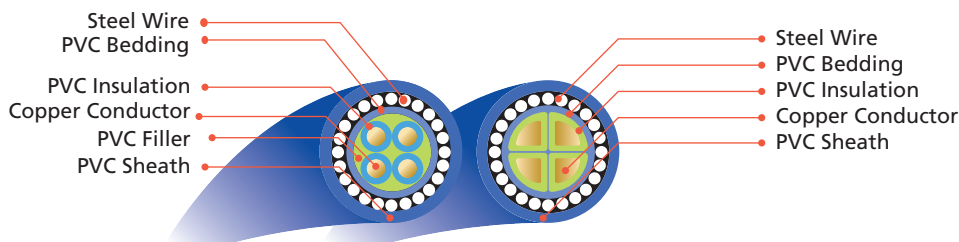
 $\S$  Shaped stranded conductors

**Single-Core**

**Two-Core**

**\*\*\*For detail information please refer to page 23\*\*\***

**Four - Core, Armoured with Stranded Copper Conductors** 600/1000V MS 274 / BS6346

Nominal area of conductor	Number and diameter of wires	Thickness of Insulation	Thickness of bedding		Nominal armour wire diameter	Thickness of overshooth	Approx overall diameter		Approx net weight	
			Extruded	Lapped			Extruded bedding	Lapped bedding	Extruded Bedding	Lapped bedding
mm <sup>2</sup>	no/mm	mm	mm	mm	mm	mm	mm	mm	kg/km	kg/km
1.5	7/0.53	0.6	0.8	•	0.9	1.4	13.8	•	390	•
2.5	7/0.67	0.7	0.8	•	0.9	1.4	15.0	•	470	•
4	7/0.85	0.8	0.8	•	1.25	1.5	17.8	•	740	•
6	7/1.04	0.8	0.8	•	1.25	1.5	19.2	•	840	•
10	7/1.35	1.0	0.8	0.8	1.25	1.6	22.8	22.8	1190	1180
16	7/1.70	1.0	1.0	0.8	1.6	1.7	26.3	25.9	1780	1760
25§	19/1.35	1.2	1.0	0.8	1.6	1.8	27.8	27.4	2230	2190
<del>25</del>	19/1.35	1.2	1.0	0.8	1.6	1.8	30.7	30.3	2390	2320
35§	19/1.53	1.2	1.0	0.8	1.6	1.9	30.5	30.1	2710	2690
<del>35</del>	19/1.53	1.2	1.0	0.8	1.6	1.9	33.9	33.5	2920	2880
50	19/1.78	1.4	1.2	0.8	2.0	2.0	35.4	34.6	3670	3590
70	19/2.14	1.4	1.2	0.8	2.0	2.1	39.2	38.4	4720	4630
95	37/1.78	1.6	1.2	0.8	2.0	2.2	44.3	43.5	6180	6030
120	37/2.03	1.6	1.4	0.8	2.5	2.4	49.3	48.1	7840	7750
150	37/2.25	1.8	1.4	0.8	2.5	2.5	53.6	52.4	9230	9110
185	37/2.52	2.0	1.6	0.8	2.5	2.6	59.0	57.4	11200	11000
240	61/2.25	2.2	1.6	0.8	2.5	2.8	65.7	64.1	14160	13900
300	61/2.52	2.4	1.6	0.8	2.5	3.0	72.0	70.4	17140	16950
400	61/2.85	2.6	1.8	0.8	3.15	3.3	81.3	79.3	22120	21760

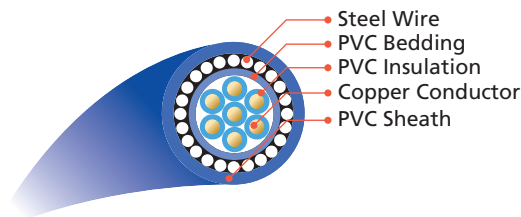
≠ Circular or compacted circular stranded conductors.

§ Shaped stranded conductors



**Auxiliary Cables with Stranded Copper Conductors** 600/1000V MS 274/BS6346

Number of Cores	Conductor		Thickness of Insulation	Thickness of extruded bedding	Nominal armour wire diameter	Thickness of oversheath	Approx overall diameter	Appox net weight
	Nominal Area	Number and diameter of wires						
no	mm <sup>2</sup>	no/mm	mm	mm	mm	mm	mm	kg/km
5	•	•	•	0.8	0.9	1.4	14.3	430
7	•	•	•	0.8	0.9	1.4	15.2	500
10	•	•	•	0.8	1.25	1.5	19.0	790
12	1.5	7/0.53	0.6	0.8	1.25	1.5	19.4	850
19	•	•	•	0.8	1.25	1.6	22.2	1100
27	•	•	•	1.0	1.6	1.7	26.7	1640
37	•	•	•	1.0	1.6	1.8	29.2	2000
48	•	•	•	1.0	1.6	1.9	32.9	2420
5	•	•	•	0.8	0.9	1.5	16.3	560
7	•	•	•	0.8	1.25	1.5	18.0	760
10	•	•	•	0.8	1.25	1.6	21.9	1015
12	2.5	7/0.67	0.7	0.8	1.25	1.6	22.4	1100
19	•	•	•	1.0	1.6	1.7	26.6	1670
27	•	•	•	1.0	1.6	1.8	30.7	2160
37	•	•	•	1.0	1.6	1.9	34.0	2670
48	•	•	•	1.2	2.0	2.1	39.5	3640
5	•	•	•	0.8	1.25	1.5	19.0	830
7	•	•	•	0.8	1.25	1.6	20.5	980
10	4	7/0.85	0.8	1.0	1.6	1.7	26.1	1520
12	•	•	•	1.0	1.6	1.7	26.8	1640
19	•	•	•	1.0	1.6	1.8	30.5	2200
27	•	•	•	1.2	2.0	2.0	37.1	3230





**Current Ratings for PVC-Insulated , PVC – Sheathed , Armoured Cables**

MS 274 / BS6346

Nominal area of conductor	Single core				Two core		Three and Four core	
	Three cables spaced #		Three cables trefoil touching		Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre
	Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre				
mm <sup>2</sup>	amp	mV	amp	mV	amp	mV	amp	mV
1.5	•	•	•	•	21	29	18	25
2.5	•	•	•	•	30	18	25	16
4	•	•	•	•	39	12	33	9.6
6	•	•	•	•	50	7.4	42	6.3
10	•	•	•	•	69	4.3	58	3.8
16	•	•	•	•	90	2.8	77	2.4
25	•	•	•	•	120	1.7	102	1.5
35	•	•	•	•	150	1.3	125	1.1
50	195	0.87	180	0.82	175	0.94	155	0.82
70	245	0.65	230	0.58	220	0.66	190	0.57
95	300	0.52	280	0.44	270	0.49	235	0.42
120	345	0.45	325	0.36	310	0.40	270	0.35
150	390	0.41	370	0.31	355	0.34	310	0.29
185	440	0.38	425	0.27	410	0.29	355	0.25
240	520	0.35	500	0.23	485	0.24	420	0.21
300	575	0.33	565	0.20	550	0.21	475	0.18
400	630	0.32	640	0.19	620	0.19	550	0.17
500	690	0.31	720	0.18	•	•	•	•
630	760	0.31	810	0.16	•	•	•	•
800	820	0.30	870	0.16	•	•	•	•
1000	880	0.29	940	0.15	•	•	•	•

#Adjacent cable surfaces separated by one cable diameter.

**Current Ratings for PVC-Insulated , PVC-Sheathed , Unarmoured Cables**

MS 274 / BS6346

Nominal area of conductor	Single core*				Two core		Tree and four core	
	Two cables spaced #		Three cables trefoil Touching		Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre
	Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre				
mm <sup>2</sup>	amp	mV	amp	mV	amp	mV	amp	mV
1.5	•	•	•	•	•	•	•	•
2.5	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•
10	•	•	•	•	66	4.3	56	3.80
16	•	•	•	•	86	2.8	73	2.40
25	•	•	•	•	116	1.7	97	1.50
35	•	•	•	•	145	1.3	120	1.10
50	185	0.83	170	0.82	170	0.94	150	0.82
70	235	0.60	220	0.58	220	0.66	185	0.57
95	300	0.47	270	0.43	265	0.49	230	0.42
120	345	0.40	310	0.35	305	0.40	265	0.35
150	395	0.35	360	0.30	350	0.34	305	0.29
185	460	0.33	420	0.25	410	0.29	350	0.25
240	585	0.32	495	0.22	485	0.24	415	0.21
300	680	0.31	575	0.19	550	0.21	475	0.18
400	780	0.28	660	0.18	630	0.19	550	0.17
500	890	0.27	760	0.16	•	•	•	•
630	1030	0.25	870	0.15	•	•	•	•
800	1170	0.23	990	0.15	•	•	•	•
1000	1290	0.22	1100	0.14	•	•	•	•

# Adjacent cable surfaces separated by one cable diameter

**Basic Assumptions**

Ground temperature	25 °C
Ambient air temperature	30 °C
Ground thermal resistivity	1.2 °C m / W
Depth of laying	0.5 metre ( to the centre of cable or trefoil group of cables )
Maximum conductor temperature	70 °C

**Rating Factors** for other Ambient Air Temperature

Ambient air temperature °C	25	30	35	40	45
Rating factor	1.06	1.0	0.94	0.87	0.79

**Current Ratings for PVC Insulated , PVC – Sheathed , Armoured Cables**

MS 274 / BS6346

Nominal area of conductor	Single core				Two core		Three and Four core	
	Three cables spaced #		Three cables trefoilTouching		Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre
	Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre				
mm <sup>2</sup>	amp	mV	amp	mV	amp	mV	amp	mV
1.5	•	•	•	•	27	29	23	25
2.5	•	•	•	•	36	18	31	16
4	•	•	•	•	47	12	41	9.60
6	•	•	•	•	59	7.40	51	6.30
10	•	•	•	•	79	4.30	67	3.80
16	•	•	•	•	104	2.80	88	2.40
25	•	•	•	•	135	1.70	117	1.50
35	•	•	•	•	165	1.30	140	1.10
50	190	0.87	180	0.82	195	0.94	165	0.82
70	230	0.65	220	0.58	245	0.66	200	0.57
95	270	0.52	265	0.44	285	0.49	245	0.42
120	300	0.45	300	0.36	330	0.40	280	0.35
150	335	0.41	335	0.31	370	0.34	310	0.29
185	370	0.38	375	0.27	420	0.29	350	0.25
240	415	0.35	430	0.23	485	0.24	410	0.21
300	450	0.33	475	0.20	540	0.21	460	0.18
400	480	0.32	530	0.19	600	0.19	515	0.17
500	515	0.31	575	0.18	•	•	•	•
630	550	0.31	640	0.16	•	•	•	•
800	565	0.30	670	0.16	•	•	•	•
1000	595	0.29	700	0.15	•	•	•	•

# Adjacent cable surfaces separated by one cable diameter.

**Current Ratings for PVC Insulated , PVC – Sheathed , Unarmoured Cables**

MS 274 / BS6346

Nominal area of conductor	Single core				Two core		Three and four core	
	Three cables spaced #		Three cables trefoil touching		Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre
	Current rating	Approximate volt drop per amp per metre	Current rating	Approximate volt drop per amp per metre				
mm <sup>2</sup>	amp	mV	amp	mV	amp	mV	amp	mV
1.5	•	•	•	•	•	•	•	•
2.5	•	•	•	•	•	•	•	•
4	•	•	•	•	•	•	•	•
6	•	•	•	•	•	•	•	•
10	•	•	•	•	79	4.30	67	3.80
16	•	•	•	•	104	2.80	88	2.40
25	•	•	•	•	135	1.70	117	1.50
35	•	•	•	•	165	1.30	140	1.10
50	190	0.83	180	0.82	195	0.94	165	0.82
70	235	0.60	220	0.58	245	0.66	200	0.57
95	280	0.47	265	0.43	285	0.49	245	0.42
120	320	0.40	300	0.35	330	0.40	280	0.35
150	355	0.35	340	0.30	370	0.34	310	0.29
185	405	0.33	380	0.25	420	0.29	350	0.25
240	470	0.32	440	0.22	485	0.24	410	0.21
300	530	0.31	495	0.19	550	0.21	460	0.18
400	610	0.28	565	0.18	620	0.19	520	0.17
500	680	0.27	630	0.16	•	•	•	•
630	780	0.25	700	0.15	•	•	•	•
800	880	0.23	770	0.15	•	•	•	•
1000	980	0.22	850	0.14	•	•	•	•

# Adjacent cable surfaces separated by one cable diameter.

**Basic Assumptions**

Ground temperature	25 °C
Ambient air temperature	30°C
Ground thermal resistivity	1.2 °C m / W
Depth of laying	0.5 metre ( to the centre of cable or trefoil group of cables )
Maximum conductor temperature	70 °C

**Rating Factors** for other Ground Temperature

Ground temperature°C	15	20	25	30	35
Rating factor	1.10	1.05	1.0	0.95	0.90

Allowable Short Circuit Currents for PVC Insulated Cables

