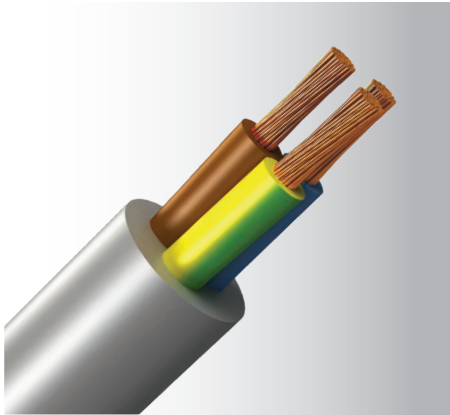


Flexible Cables

250/440V 2-Core ~ 4-Core
 PVC Insulated, PVC Sheathed Flexible Cable
 Description: CU/PVC/PVC



Application :	This cable is used for general indoor and outdoor purposes including portable tools, washing machines, and vacuum cleaners.
Voltage rating :	250/440V
Construction :	Flexible plain annealed copper conductor, PVC insulated, PVC sheathed cable
Insulation colour :	2-Core: Brown, Blue; 3-Core: Brown, Blue, Green/Yellow; 4-Core: Brown, Black, Blue, Green/Yellow; Brown, Black, Grey, Green/Yellow; (Other colour upon request)
Sheath colour :	Grey (Other colour upon request)
Specification :	BS 2004, IEC 60332-1-2
Operating temperature :	70°C

2-CORE [2C]

(Brown, Blue) (1-phase and neutral)

Conductor		Insulation	Sheath	Part No.	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand	Thickness	Thickness			
(mm ²)	(no./inch)	(mm)	(mm)		(mm)	(kg/km)
0.4	14/0.0076	0.64	1.02	29023001	6.6	56
0.7	23/0.0076	0.64	1.02	30023001	7.2	70
1.2	40/0.0076	0.64	1.02	31023001	7.7	88
2.0	70/0.0076	0.64	1.27	32023001	9.2	129
3.2	110/0.0076	0.64	1.27	33023001	10.0	167
4.7	162/0.0076	0.76	1.27	34023001	11.5	227

3-CORE [3G]

(Brown, Blue, Green/Yellow) (1-phase and earth)

Conductor		Insulation	Sheath	Part No.	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand	Thickness	Thickness			
(mm ²)	(no./inch)	(mm)	(mm)		(mm)	(kg/km)
0.4	14/0.0076	0.64	1.02	29033002	6.9	67
0.7	23/0.0076	0.64	1.02	30033002	7.5	87
1.2	40/0.0076	0.64	1.02	31033002	8.2	107
2.0	70/0.0076	0.64	1.27	32033002	9.7	158
3.2	110/0.0076	0.64	1.27	33033002	10.6	208
4.7	162/0.0076	0.76	1.27	34033002	12.2	286

Current rating and voltage drop
 Please refer to Table 18 (Page 62)

Flexible Cables

250/440V 2-Core ~ 4-Core
 PVC Insulated, PVC Sheathed Flexible Cable
 Description: CU/PVC/PVC

4-CORE [4G]

(Brown, Black, Blue, Green/Yellow) (1-phase and earth)
 Suitable for certain applications

Conductor		Insulation	Sheath	Part No.	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand	Thickness	Thickness			
(mm ²)	(no./inch)	(mm)	(mm)			
0.4	14/0.0076	0.64	1.02	29043003	7.4	79
0.7	23/0.0076	0.64	1.02	30043003	8.2	100
1.2	40/0.0076	0.64	1.27	31043003	9.4	141
2.0	70/0.0076	0.64	1.27	32043003	10.5	192
3.2	110/0.0076	0.64	1.27	33043003	11.5	258
4.7	162/0.0076	0.76	1.27	34043003	13.5	350

4-CORE [4G]

(Brown, Black, Grey, Green/Yellow) (3-phase and earth)

Conductor		Insulation	Sheath	Part No.	Approx. Overall Diam.	Approx. Weight
Nominal Area	No./Diam. of Strand	Thickness	Thickness			
(mm ²)	(no./inch)	(mm)	(mm)			
0.4	14/0.0076	0.64	1.02	29043809	7.4	79
0.7	23/0.0076	0.64	1.02	30043809	8.2	100
1.2	40/0.0076	0.64	1.27	31043809	9.4	141
2.0	70/0.0076	0.64	1.27	32043809	10.5	192
3.2	110/0.0076	0.64	1.27	33043809	11.5	258
4.7	162/0.0076	0.76	1.27	34043809	13.5	350

Current rating and voltage drop
 Please refer to Table 18 (Page 62)

Current Rating and Voltage Drop

Flexible Cables



tel (65) 6367 0107 fax (65) 6365 2963
www.keystone-cable.com

Flexible Cables with PVC Insulation, or PVC Insulation & PVC Outersheath 250/440V

Table 18 : Technical Data Flexible Cord, Imperial Sizes
[CU/PVC or CU/PVC/PVC Cables]

Conductor Operating Temperature : 70°C
Ambient Temperature : 30°C

BS 2004

Conductor		Current-Carrying Capacity		Voltage Drop per 100 feet		Maximum Weight supportable by twin flexible cord
Cross-sectional Area	No./Diam. of Strand	d.c. or 1- or 3-phase a.c.	d.c. or 1-phase a.c.	3-phase a.c.		
1	2	3	4	5	6	
mm ²	No./inch	A	V	V	lb	
0.4	14/0.0076	3	8.9	7.7	3	
0.7	23/0.0076	6	11	9.4	5	
1.2	40/0.0076	13	14	12	10	
2.0	70/0.0076	18	12	10	10	
3.2	110/0.0076	24	9.6	8.3	10	
4.7	162/0.0076	31	8.4	7.3	10	

Note : For rating factor of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Flexible Cables with PVC Insulation, PVC Outersheath 300/500V

Table 19 : Technical Data Flexible Cord, Metrics Sizes
[CU/PVC/PVC Cables]

Conductor Operating Temperature : 60°C

BS EN 50525-2-11
BS 6500

Conductor		Current-Carrying Capacity		Voltage Drop		Maximum Mass supportable by twin flexible cord
Cross-sectional Area	No./Diam. of Strand	d.c. or 1-phase a.c.	3-phase a.c.	d.c. or 1-phase a.c.	3-phase a.c.	
1	2	3		4	5	6
mm ²	No./mm	A		mV/A/m	mV/A/m	kg
0.5	16/0.20	3	3	93	80	2
0.75	24/0.20	6	6	62	54	3
1	32/0.20	10	10	46	40	5
1.5	30/0.25	16	16	32	27	5
2.5	50/0.25	25	20	19	16	5
4	56/0.30	32	25	12	10	5

Note : For rating factor of ambient temperature other than 30°C, please refer to Table 25 (Page 66)

Table 25 : Correction Factor for Ambient Air Temperature Other Than 30°C to be Applied to the Current-Carrying Capacities for Cables in Free Air

Ambient Temperature (°C)	Insulation				
	PVC (70°C)	XLPE (90°C)	HT-PVC (90°C)	Rubber (85°C)	Rubber (60°C)
10	1.22	1.15	-	-	-
15	1.17	1.12	-	-	-
20	1.12	1.08	-	-	-
25	1.06	1.04	1.03	1.02	-
30	1.00	1.00	1.00	1.00	1.00
35	0.94	0.96	0.97	0.95	0.91
40	0.87	0.91	0.94	0.90	0.82
45	0.79	0.87	0.91	0.85	0.71
50	0.71	0.82	0.87	0.80	0.58
55	0.61	0.76	0.84	0.74	0.41
60	0.50	0.71	0.80	0.67	-
65	0.35	0.65	0.76	0.60	-
70	-	0.58	0.71	0.52	-
75	-	0.50	0.61	0.43	-
80	-	0.41	0.50	0.30	-
85	-	0.29	0.35	-	-

Table 26 : Correction Factor for Ambient Ground Temperature Other Than 15°C to be Applied to the Current-Carrying Capacities for Cables in Ducts or in Ground

Ground Temperature (°C)	Insulation	
	PVC (70°C)	XLPE (90°C)
10	1.04	1.03
15	1.00	1.00
20	0.95	0.97
25	0.90	0.93
30	0.85	0.89
35	0.80	0.86
40	0.74	0.82
45	0.67	0.77
50	0.60	0.73
55	-	0.68
60	-	0.63
65	-	0.58