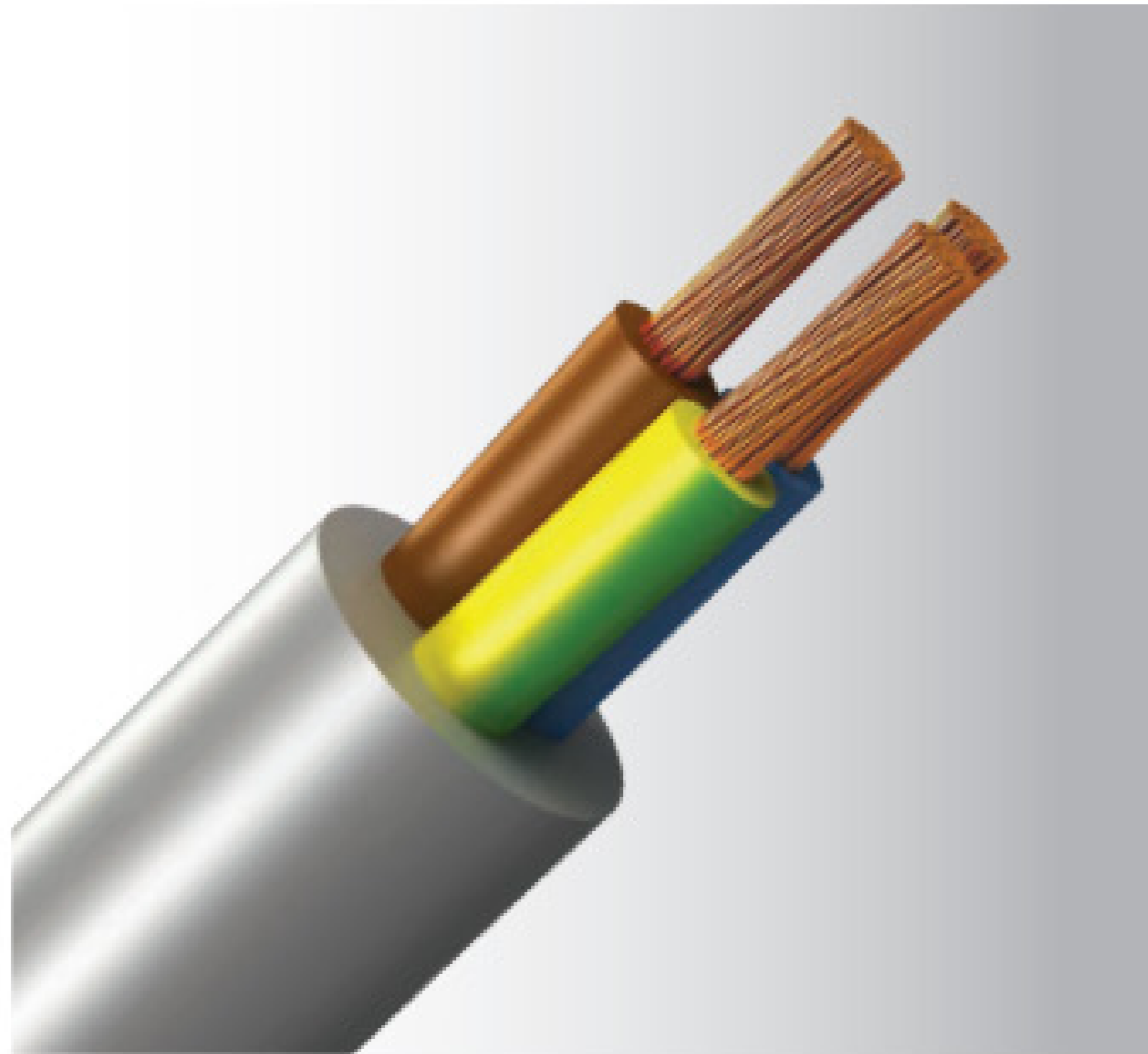


Flexible Cables

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



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



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

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Flexible Cables

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



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 www.keystone-cable.com

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)

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Current Rating and Voltage Drop

Flexible Cables



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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)

BS EN 50525-2-11
BS 6500

Conductor Operating Temperature : 60°C

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)

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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

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