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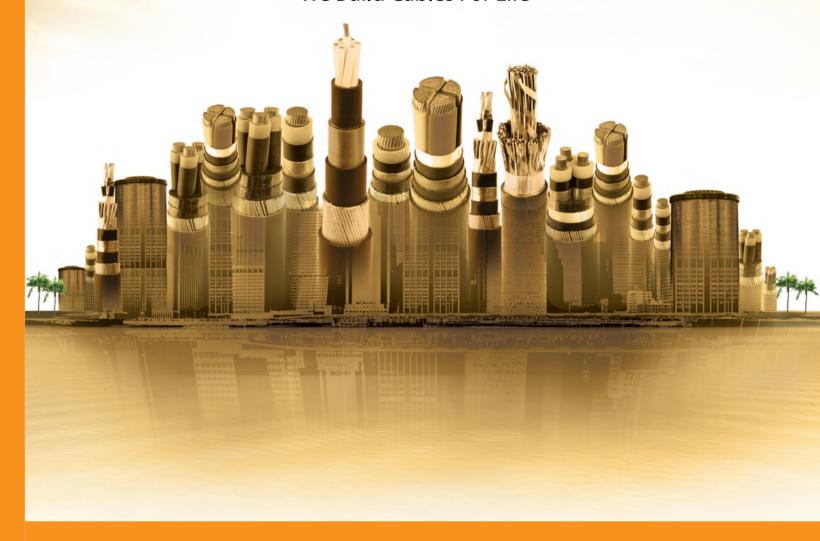


شركة الخليج للكابلات والصناعات المتعددة – الأردن **Gulf Cable & Multi Industries Co. Jordan**



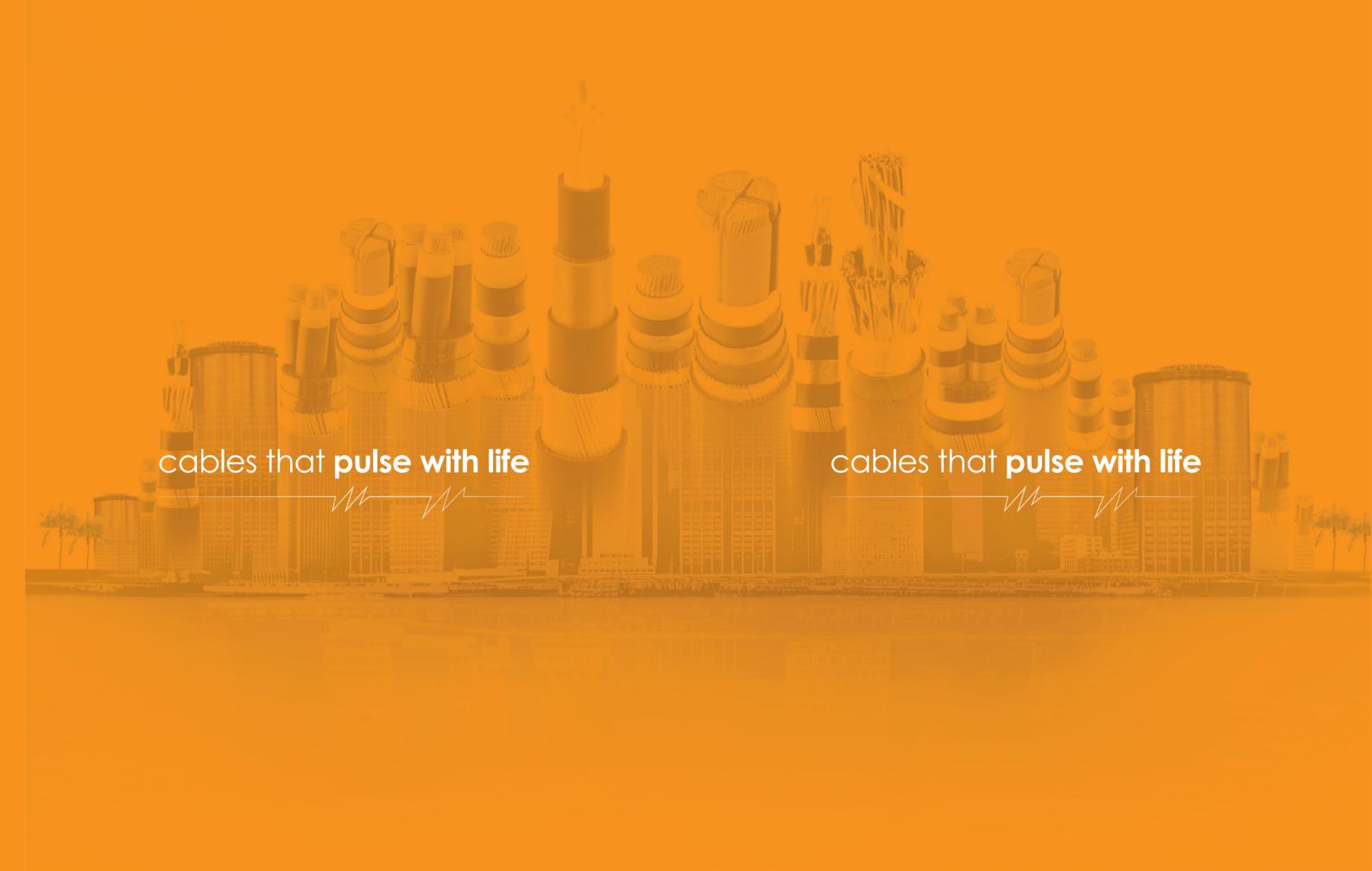
Gulf Cable & Electrical Industries Co. K.S.C.P.-Kuwait

We Build Cables For Life



DOMESTIC WIRES

PRODUCT DATA TABLES



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DOMESTIC

□ Introduction:

Gulf Cables and Electrical Industries Co. K.S.C.P. was established in 1975 with objective of meeting growing local and export markets requirements, it owns two factories one located in Kuwait the other in Jordan. Our Vision is to be the leader of Gulf and Middle East region in manufacturing and supplying Cables and Conductors. Through continuous improvements driven by the integrity, teamwork and innovation, we are committed to provide such a Quality that:

- Our customers will receive superior value
- Our shareholders will receive ever exceeding returns on their investments
- Our business partners will share our success
- Our employees will prosper

Our products are designed and manufactured to meet the needs of the Local, regional and International markets. All our products meet the respective world standards.

We handle all available means for exporting products - land, marine and air.

We are also equipped to meet all export requirements and formalities in the local Arab markets, including Saudi Arabia, United Arab Emirates, Oman, Bahrain, Jordan , Iraq and MENA. Opportunities to Export to Syria, Lebanon, Yemen and other countries worldwide will also be available soon.

We have developed and established communication channels with our customers through which, we constantly get updates and feedbacks on their stated / implied needs and problems. Based on this information, we have devised new modalities to provide better service to our valued customers. Thus, we not only provide Quality Products, but also offer a host of related services before and after the sale.

□ Products:

Medium Voltage Power Cables up to 19/33(36) KV Low Voltage Power Cables up to 600/1000V Control Cables 600/1000V Bare Conductors for Overhead Lines Earthing Conductors PVC or XLPE Insulated Conductors Domestic Applications / Internal Wiring LSF Cables & Wires Lead Sheathed Cables **Enamelled Wires** Telephone, communication & Instrumentation Cables

□ Quality:

Quality has always been our top priority and to meet customer's expectation has been our prime objective; the very basis on which we earned the confidence of our clientele. It is this concern and commitment, rather than just sell of product, has given us a distinct image and competitive advantage.

□ Certificates:

ISO 9001: 2015 ISO 14001: 2015 BS OHSAS 18001:2007

CERTIFIED BY TUV NORD

BS EN ISO 9001:2015 CERTIFIED BY BASEC

ISO 9001:2015 CERTIFIED BY SGS





□ PRODUCT RANGE

We at Gulf Cables always aim for the best. While most of the Cable Manufacturers in Gulf and Middle East region settled for ISO 9002, we stand out with ISO 9001 which recognizes our ability for Design & Development as well.

As a philosophy, our commitment to Customers does not end with a sale. We also offer a host of related services before and after the sale. These include,

- Application engineering service for selection of appropriate product best suiting the end use.
- An extensive range of cables, single core wires, flexible cords bare & insulated conductors manufactured to stringent Quality standards going beyond international specifications.
- Design and Development of products tailored to meet specific requirements of the application.
- To help the customers understand the product intricacies and its performance levels.

□NOTE 1:

THE TABULATIONS ON SUBSEQUENT PAGES FURNISH OVERALL DIMENSIONS, NET & GROSS WEIGHTS AND DRUM DIMENSIONS. PLEASE NOTE THAT THESE ARE "APPROXIMATE" VALUES. THEY HAVE BEEN FURNISHED FOR GENERAL GUIDELINES AND INTENDED TO BE USED FOR THUMB RULE ESTIMATIONS / FREIGHT CALCULATIONS.

□ NOTE 2:

THE FOLLOWING LIST TABULATES ONLY THE "STANDARD" PRODUCTS. FOR ANY PRODUCT NOT LISTED BELOW, PLEASE DO NOT HESITATE TO CONTACT OUR SALES & MARKETTING DIVISION. WE SHALL BE TOO PLEASED TO MEET YOUR SPECIFIC REQUIREMENTS.

□ PRODUCT □ STANDARD

DOMESTIC APPLICATIONS / INTERNAL WIRING

- PVC insulated non sheathed single core wires
- PVC insulated PVC sheathed flexible cords
- PVC insulated PVC sheathed twin flat cables and cords with Or Without circuit protective conductors (ECC)

BS 6004 / BS 6231 BS 6500 / BS 6141 / BS 6004

BS 6004 / Client specification

www.gulfcable.com 2





□ 450 / 750 V - SINGLE CORE COPPER CONDUCTOR PVC INSULATED **UNSHEATHED CABLES** (CU / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°c	Thickness of Insulation	Approx Overall Diameter	Approx Cable Weight	Standard Packing Length	Drum Size/ Coil	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	Kg/Km	Yard/Metre		KG
1.0*	18.1	0.6	2.5	15	100Y	COIL	1.4
1.5** 1.5	12.1 12.1	0.7 0.7	3.0 3.2	21 22	100Y 100Y	COIL	1.9 2.0
2.5** 2.5 4	7.41 7.41 4.61	0.8 0.8 0.8	3.6 3.8 4.3	32 34 49	100Y 100Y 100Y	COIL COIL	2.9 3.1 4.5
6 10 16	3.08 1.83 1.15	0.8 1.0 1.0	4.9 6.0 7.1	68 115 170	100Y 100Y 100Y	COIL COIL	6.2 10.5 15.5
25	0.727	1.2	8.8	265	Metre±10% 1000M	D-9	24.3
35 50	0.524 0.387	1.2 1.4	9.9 11.4	360 490	1000M 1000M	D-10 D-9	420 550
70 95 120	0.268 0.193 0.153	1.4 1.6 1.6	13.0 15.3 16.8	690 950 1180	1000M 500M 500M	D-10 D-9 D-10	750 535 650
150 185 240	0.124 0.0991 0.0754	1.8 2.0 2.2	18.6 20.6 23.5	1480 1810 2360	500M 500M 500M	D-10 D-11 D-12	800 1010 1290
300 400 500	0.0601 0.0470 0.0366	2.4 2.6 2.8	25.9 29.2 32.6	2960 3820 4810	500M 500M 500M	D-12 D-16 D-18	1590 2120 2640
630	0.0283	2.8	38.2	6180	250M	D-14	1700

^{*} Circular solid conductors (Class 1) and 300/500V.
** Circular solid conductors (Class 1).

All other conductors Circular stranded or circular stranded compacted (Class 2). Above cables are insulated with either PVC Type 5 Heat Resisting 85°C or TI1 compound. Cables rated 450/750V are Suitable for Voltages up to 1000V a.c or up to 750V to earth d.c. Cables conform to BS 6004.



□ 600 / 1000 V - SINGLE CORE COPPER CONDUCTOR PVC INSULATED CABLES FOR SWITCHGEAR AND CONTROLGEAR WIRING TYPE CU AND CR AS PER BS 6231 - 1990 (CU / PVC)

Туре	Nominal Area of Conductor	Maximum Conductor Resistance at 20°c	Thickness of Insulation	Mean Overall Diameter (Max.)	Approx. Cable Weight	Standard Packing length	Drum Size/ Coil	Approx Gross Weight
	Sqmm	Ohm/Km	mm	mm	Kg/Km	Yard/Metre		KG
CU	1.0 1.5 2.5	18.1 12.1 7.41	0.8 0.8 0.8	3.2 3.5 3.9	18 23 32	100Y 100Y 100Y	COIL COIL	1.8 2.3 3.2
CR	2.5 4 6	7.41 4.61 3.08	0.8 0.8 0.8	4.2 4.8 5.4	34 49 68	100Y 100Y 100Y	COIL COIL	3.4 4.9 6.8
	10 16 25	1.83 1.15 0.727	1.0 1.0 1.2	6.8 8.0 9.8	115 170 265	100Y 100Y 100Y	COIL COIL	12 17 27
	35 50 70	0.524 0.387 0.268	1.2 1.4 1.4	11.0 13.0 15.0	360 490 685	Metre±10% 1000M 1000M 1000M	D-8 D-9 D-9	410 550 745
	95 120 150	0.193 0.153 0.124	1.6 1.6 1.8	17.0 19.0 21.0	950 1180 1480	500M 500M 500M	D-8 D-9 D-10	525 650 800
	185 240	0.0991 0.0754	2.0 2.2	23.5 26.5	1810 2360	500M 500M	D-10 D-11	965 1280

Type CU: Rigid, round, solid conductors (Class 1). Type CR: Rigid, round, stranded conductors (Class 2).

All the cables are insulated with PVC Type 5 Heat Resisting 85° C compound. Cables conform to BS 6231-1990





□ 450 / 750 V - SINGLE CORE FLEXIBLE CABLES COPPER CONDUCTOR PVC INSULATED NON SHEATHED CABLES - TYPE -HO 7V-K OF BS 6004 (CU / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°c	Thickness of Insulation	Mean Overall Diameter (Max.)	Approx. Cable Weight	Standard Packing length	Drum Size/ Coil	Approx Gross Weight
Sqmm	Ohm/Km	mm	mm	Kg/Km	Yard/Metre		KG
1.5 2.5 4	13.3 7.98 4.95	0.7 0.8 0.8	3.4 4.1 4.8	21 33 48	100Y 100Y 100Y	COIL COIL	1.9 3.0 4.4
6 10 16	3.3 1.91 1.21	0.8 1.0 1.0	5.3 6.8 8.1	70 115 170	100Y 100Y 100Y	COIL COIL	6.4 11 16
25	0.780	1.2	10.2	270	100Y	COIL	25
35 50	0.554 0.386	1.2 1.4	11.7 13.9	365 505	Metre±10% 1000M 1000M	D-9 D-10	430 570
70 95 120	0.272 0.206 0.161	1.4 1.6 1.6	16.0 18.2 20.2	700 960 1200	1000M 1000M 1000M	D-11 D-12 D-12	800 1070 1310
150 185 240	0.129 0.106 0.0801	1.8 2.0 2.2	22.5 24.9 28.4	1510 1830 2390	1000M 1000M 1000M	D-14 D-14 D-18	1660 1980 2630

All Conductors are flexible (Class 5). Above cables are insulated with either PVC Type 5 Heat Resisting 85°C or TI 1 compound. Cables conform to BS 6004.



□ 600 / 1000 V - SINGLE CORE FLEXIBLE CABLES

COPPER CONDUCTOR PVC INSULATED CABLES FOR SWITCHGEAR AND CONTROLGEAR WIRING TYPE CK AS PER BS 6231 - 1990

(CU / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°c	Thickness of Insulation	Mean Overall Diameter (Max.)	Approx. Cable Weight	Standard Packing length	Drum Size/ Coil	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	Kg/Km	Yard/Metre		KG
0.5 0.75 1.0	39 26 19.5	0.8 0.8 0.8	3.0 3.2 3.4	12 15 18	100Y 100Y 100Y	COIL COIL	1.1 1.4 1.6
1.5 2.5 4.0	13.3 7.98 4.95	0.8 0.8 0.8	3.7 4.2 4.8	23 33 48	100Y 100Y 100Y	COIT COIT	2.2 3.0 4.4
6 10 16	3.3 1.91 1.21	0.8 1.0 1.0	6.3 7.8 9.0	70 115 170	100Y 100Y 100Y	COIL COIL	6.4 11.0 16.0
25	0.78	1.2	11.5	270	100Y	COIL	25
35 50	0.554 0.386	1.2 1.4	13.0 15.0	365 505	Metre±10% 1000M 1000M	D- 9 D-10	430 570
70 95 120	0.272 0.206 0.161	1.4 1.6 1.6	17.5 19.5 21.5	700 960 1200	1000M 1000M 1000M	D-12 D-12 D-14	810 1070 1350
150 185 240	0.129 0.106 0.0801	1.8 2.0 2.2	24.0 26.5 30.0	1510 1830 2390	1000M 1000M 1000M	D-14 D-16 D-18	1660 2040 2630
300* 400* 500* 630*	0.0641 0.0486 0.0384 0.0287	2.4 2.6 2.8 2.8	32.0 37.0 41.0 44.0	2990 3940 5020 6070	500M 500M 500M 250M	D-14 D-18 D-18 D-14	1650 2210 2750 1670

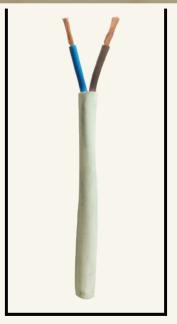
All Conductors are flexible (Class 5).

Above cables are insulated with PVC Type 5 Heat Resisting 85°C compound.

All other Cables conform to BS 6231-1990.

^{*}Cables generally to BS 6231-1990.





□ 300 / 500 V - TWO CORE FLEXIBLE CORDS COPPER CONDUCTOR PVC INSULATED PVC SHEATHED FLEXIBLE CORDS (CU / PVC / PVC)

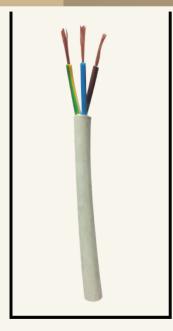
Nominal Area of Conductor	Maximum Conductor Resistance at 20°C	Thickness of Insulation	Thickness Of Outer Sheath	Mean Overall Diameter Max.	Approx. Cable Weight	Standard Packing Length	Drum Size/ Coil
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard / Metre	
0.5	39.0	0.6	0.8	7.0	53	100Y	COIL
0.75 1.0	26.0 19.5	0.6 0.6	0.8 0.8	7.6 8.0	62 74	100Y 100Y	COIL COIL
1.25 1.5 2.5	15.6 13.3 7.98	0.7 0.7 0.8	0.8 0.8 1.0	8.6 9.0 11.0	88 95 140	100Y 100Y 100Y	COIL COIL
4	4.95	0.8	1.1	12.0	195	100Y	COIL
6* 10* 16*	3.30 1.91 1.21	0.8 1.0 1.0	1.2 1.4 1.4	14.0 17.5 20.0	275 435 595	Metre±10% 1000M 1000M 1000M	D-10 D-12 D-12

All Conductors flexible (Class 5).

Above Cable are insulated and sheathed with Heat Resisting 85°C PVC Type 4 compound OR insulated with PVC Type TI2 & Sheathed with PVC Type TM2 compound. *Cables generally conform to BS 6500 and BS 6004.

All other cables conform BS 6500 except Core identification.

Core identification - Red & Black OR Blue & Brown.



□ 300 / 500 V - THREE CORE FLEXIBLE CORDS COPPER CONDUCTOR PVC INSULATED PVC SHEATHED FLEXIBLE CORDS (CU / PVC / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°C	Thickness of Insulation	Thickness Of Outer Sheath	Mean Overall Diameter Max.	Approx. Cable Weight	Standard Packing Length	Drum Size/ Coil
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard / Metre	
0.5* 0.75 1.0	39.0 26.0 19.5	0.6 0.6 0.6	0.8 0.8 0.8	7.5 8.0 8.4	60 75 85	100Y 100Y 100Y	COIL COIL COIL
1.25 1.5 2.5	15.6 13.3 7.98	0.7 0.7 0.8	0.9 0.9 1.1	9.4 9.8 12.0	110 120 175	100Y 100Y 100Y	COIL COIL
4 6* 10* 16*	4.95 3.30 1.91 1.21	0.8 0.8 1.0	1.2 1.4 1.4 1.4	13.0 15.5 19.0 21.5	240 350 535 745	Metre±10% 1000M 1000M 1000M 1000M	D-9 D-11 D-12 D-14

All Conductors flexible (Class 5).

Above Cable are insulated and sheathed with Heat Resisting 85°C PVC Type 4 compound OR insulated with PVC Type TI2 & Sheathed with PVC Type TM2 compound. *Cables generally conform to BS 6500 and BS 6004.

All other Cables conform to BS 6500 except core identification.

Core Identification: Red, Black & Green OR

Blue, Brown & green (or green/yellow)





□ 300 / 500 V - FOUR CORE FLEXIBLE CORDS

COPPER CONDUCTOR PVC INSULATED PVC SHEATHED FLEXIBLE CORDS

(CU / PVC / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°C	Thickness of Insulation	Thickness Of Outer Sheath	Mean Overall Diameter Max.	Approx. Cable Weight	Standard Packing Length	Drum Size/ Coil
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard/Metre	
0.75 1.0	26.0 19.5	0.6 0.6	0.8 0.9	8.6 9.4	90 105	100Y 100Y	COIL
1.5 2.5	13.3 7.98	0.7 0.8	1.0 1.1	11.0 13.0	150 210	100Y 100Y	COIL
4 6* 10* 16*	4.95 3.30 1.91 1.21	0.8 0.8 1.0 1.0	1.2 1.4 1.4 1.4	14.0 17.0 20.5 23.5	290 430 660 925	Metre±10% 1000M 1000M 1000M 1000M	D-10 D-11 D-12 D-14

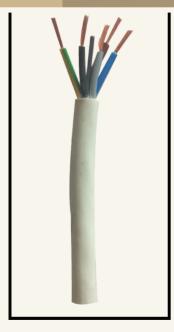
All conductors flexible (Class 5).

Above Cable are insulated and sheathed with Heat Resisting 85°C PVC Type 4 compound OR insulated with PVC Type TI2 & Sheathed with PVC Type TM2 compound. *Cables generally conform to BS 6500 and BS 6004.

All other Cables conform to BS 6500 except core identification.

Core Identification: Red, Yellow, Blue & Black OR

Blue, Brown, green (or green/yellow) & Black



□ 300 / 500 V - FIVE CORE FLEXIBLE CORDS COPPER CONDUCTOR PVC INSULATED PVC SHEATHED FLEXIBLE CORDS (CU / PVC / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20 C	Thickness of Insulation	Thickness Of Outer Sheath	Mean Overall Diameter Max.	Approx. Cable Weight	Standard Packing Length	Drum Size/ Coil
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard/Metre	
0.75 1.0	26.0 19.5	0.6 0.6	0.9 0.9	9.6 10.0	125 145	100Y 100Y	COIL COIL
1.5	13.3	0.7	1.1	12.0	205	100Y	COIL
2.5 4	7.98 4.95	0.8 0.8	1.2 1.4	14.0 15.5	290 410	Metre±10% 1000M 1000M	D-10 D-11

All Conductors flexible (Class 5). Above Cable are insulated and sheathed with Heat Resisting 85°C PVC Type 4 compound OR insulated with PVC Type TI2 & Sheathed with PVC Type TM2 compound. All Cables conform to BS 6500 except core identification.

Core Identification: Red, Yellow, Blue, Black & Green OR Blue, Brown, Black, Grey & green or green/yellow





□ 300 / 500 V - TWIN FLAT CABLE COPPER CONDUCTOR PVC INSULATED **PVC SHEATHED CABLES** WITH CIRCUIT PROTECTIVE CONDUCTOR (CU / PVC / PVC) (PREVIOUSLY ECC)

Nomin	ial Area		imum ce at 20°C	Thickness	Thickness Of	Overall Dimensions	Approx. Cable	Standard	
Conductor	Circuit protective Conductor	Conductor	Circuit protective Conductor	of Insulation	Outer Sheath	of cable (Max.)	Weight	Packing Length in Coil / Drum	
Sqr	mm	Ohm/km		mm	mm	mm	Kg/Km	Yard/Metre	
1.0*	1.0	18.1	18.1	0.6	0.9	4.7x8.6	74	100 COIL	
1.5*	1.0	12.1	18.1	0.7	0.9	5.4x9.6	93	100 COIL	
1.5	1.0	12.1	18.1	0.7	0.9	5.6x10.0	97	100 COIL	
2.5*	1.5	7.41	12.1	0.8	1.0	6.2x11.5	130	100 COIL	
2.5	1.5	7.41	12.1	0.8	1.0	6.6x12.0	135	100 COIL	
4	1.5	4.61	12.1	0.8	1.0	7.2x13.0	175	100 COIL	
6	2.5	3.08	7.41	0.8	1.1	8.0x15.0	235	100 COIL	
10	4	1.83	4.61	1.0	1.2	9.6x19.0	370	1000M Drum±10%	
16	6	1.15	3.08	1.0	1.3	11.0x22.5	525	1000M Drum±10%	

^{*}Circular solid conductors (Class 1).

All other conductors Circular stranded (Class 2).

Circuit protective conductors - solid except for 10 sqmm & 16 sqmm cables.

Colour of Insulation Red and Black.

Colour of sheath Grey or White.

Above Cable are insulated with PVC Type 5 Heat Resisting 85°C and sheathed with PVC Type 9 compound OR insulated with PVC Type TI1 & Sheathed with PVC Type TM1 compound.

Cables conform to BS 6004.



□ 300 / 500 V - TWIN FLAT CABLE COPPER CONDUCTOR PVC INSULATED **PVC SHEATHED CABLES** WITHOUT CIRCUIT PROTECTIVE CONDUCTOR (CU / PVC / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°c	Thickness of Insulation	Thickness Of Outer Sheath	Overall Dimensions of cable (Max.)	Approx. Cable Weight	Standard Packing Length in Coil / Drum
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard/Metre
1.0*	18.1	0.6	0.9	4.7×7.4	62	100 COIL
1.5*	12.1	0.7	0.9	5.4×8.4	80	100 COIL
1.5	12.1	0.7	0.9	5.6×8.8	83	100 COIL
2.5*	7.41	0.8	1.0	6.2x9.8	110	100 COIL
2.5	7.41		1.0	6.6x10.5	120	100 COIL
4	4.61	0.8	1.0	7.2×11.5	155	100 COIL
6	3.08	0.8	1.1	8.0×13.0	205	100 COIL
10	1.83	1.0	1.2	9.6×22.5	320	1000M Drum±10%
16	1.15	1.0	1.3	11.0×26.5	450	1000M Drum±10%

^{*}Circular solid conductors (Class 1).

All other conductors Circular stranded (Class 2).

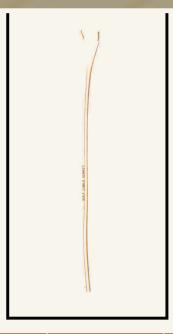
Colour of Insulation Red and Black.

Colour of sheath Grey or White.

Above Cable are insulated with PVC Type 5 Heat Resisting 85°C and sheathed with PVC Type 9 compound OR insulated with PVC Type TI1 & Sheathed with PVC Type TM1 compound.

Cables conform to BS 6004.

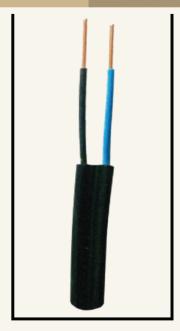




□ 300/300V - PARALLEL TWIN COPPER CONDUCTOR PVC INSULATED HO 3 VH - H AS PER BS 6500 - 1994 (CU / PVC)

Nominal Area of Conductor	Maximum Conductor Resistance at 20°C	Thickness of Insulation	Overall Dimensions of Cable (Max.)	Approx. Cable Weight	Standard coil Length
Sqmm	Ohm/km	mm	mm	Kg/km	Yard
0.5	39.0	0.8	3.0×6.0	27	100
0.75	26.0	0.8	3.2×6.4	32	100

All conductors are flexible (Class 6). All Cables are insulated with Heat Resisting 85°C PVC- Type 4 Compound. Cables conform to BS 6500.



■ SIEMENS CABLES COPPER CONDUCTORS PVC INSULATED PVC SHEATHED (CU / PVC / PVC)

Size	Maximum Conductor Resistance at 20°C	Thickness of Insulation	Thickness Of Outer Sheath	Approx. Overall Dimensions	Approx. Cable Weight	Standard Coil Length
NO. x Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard
2x1.5	12.1	0.4	0.8	4.4x12.0	60	100
3x1.5	12.1	0.4	0.8	4.4x18.9	90	100
2x2.5	7.28	0.5	0.9	5.2x13.3	90	100
3x2.5	7.28	0.5	0.9	5.2x20.9	130	100

All conductors are solid (Class 1). All Cables are insulated with PVC Type TI1 compound and sheathed with PVC type TM1.

Core identification: for two cores: Blue & Black.

for three cores: Green / Yellow, Black and Blue, OR

Black , Blue and Brown.



Current Rating & Voltage Drop

Current rating and Voltage drop of Cables given below are based on the IEEE wiring regulations 17th edition. For detailed information, reference should be made to Appendix 4 of above IEEE edition.

Current Carrying Capacity (Amps)

Single Core PVC Insulated Non-Sheathed Cables - Cables in conduit on a wall or ceiling or in trunking

Nominal Area of conductor	single	ables phase or dc	3 or 4 cables three phase ac			
sqmm	at 70°C	at 85 °C	at 70°C	at 85°C		
1	13.5	16	12	14		
1.5	17.5	21	15.5	18		
2.5	24	28	21	25		
4	32	38	28	33		
6	41	48	36	42		
10	57	67	50	59		
16	76	87	68	78		
25	101	116	89	102		
35	125	143	110	126		
50	151	173	134	154		
70	192	220	171	196		
95	232	266	207	237		
120	269	309	239	274		
150	300	342	262	298		
185	341	390	296	339		
240	400	458	346	396		
300	458	525	394	452		
400	546	626	467	535		
500	626	712	533	606		
630	720	816	611	693		

Installation conditions for above Rating:

Maximum Conductor Temp. for PVC Type 5 Insulation 85°C Maximum Conductor Temp. for PVC TI1/Type A Insulation 70°C Ambient Air Temperature 30°C ■ Voltage Drop (mV/A/m)

Nominal Area of conductor	ac (er	oles single p nclosed in co or trunking)	nduit	3 or 4 cables, three phase ac (enclosed in conduit or trunking)				
Sqmm	Refere	nce method	A & B	Refer	ence method A	\ & В		
1		44			38			
1.5		29			25			
2.5		18			15			
4		11			9.5			
6		7.3			6.4			
10		4.4			3.8			
16		2.8			2.4			
	r	Х	Z	r	Х	z		
25	1.80	0.33	1.80	1.50	0.29	1.55		
35	1.30	0.31	1.30	1.10	0.27	1.10		
50	0.95	0.30	1.00	0.81	0.26	0.85		
70	0.65	0.29	0.72	0.56	0.25	0.61		
95	0.49	0.28	0.56	0.42	0.24	0.48		
120	0.39	0.27	0.47	0.33	0.23	0.41		
150	0.31	0.27	0.41	0.27	0.23	0.36		
185	0.25	0.27	0.37	0.22	0.23	0.32		
240	0.195	0.26	0.33	0.17	0.23	0.29		
300	0.160	0.26	0.31	0.14	0.23	0.27		
400	0.130	0.26	0.29	0.12	0.22	0.25		
500	0.110	0.26	0.28	0.10	0.22	0.25		
630	0.094	0.25	0.27	0.08	0.22	0.24		

Note: For cables having conductors of 16 mm² or less cross-sectional area, their inductance can be ignored and $(mV/A/m)_\Gamma$, values only are tabulated. For cables having conductor greater than 16 mm² cross-sectional area the impedenace values are given as $(mV/A/m)_Z$, together with the resistive component $(mV/A/m)_r$, and the reactive component $(mV/A/m)_X$



Rating factor for variation in Ambient temperature

Ambient temperature (°C)	25	30	35	40	45	50	55	60	65
PVC Insulated Cable (85°C)	1.02	1	0.95	0.90	0.85	0.80	0.74	0.67	0.6
PVC Insulated Cable (70°C)	1.03	1	0.94	0.87	0.79	0.71	0.61	0.5	0.35

Correction Factor for groups of Cables

Arrangement	Number of circuits or multicore Cables													
(Cables touching)	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Bunched in Air, on a surface, embedded or enclosed (Methods A to F)	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 on wall or Floor (Method C)	0.85	0.79	0.75	0.73	0.72	0.72	0.71	0.70	0.70	0.70	0.70	0.70	0.70	0.70
Single layer multicore on a perforated horizontal or vertical cable tray system (Methods E&F)	0.88	0.82	0.77	0.75	0.73	0.73	0.72	0.72	0.72	0.72	0.72	0.72	0.72	0.72
Single layer multicore on cable ladder system or cleats etc. (Methods E&F)	0.87	0.82	0.80	0.80	0.79	0.79	0.78	0.78	0.78	0.78	0.78	0.78	0.78	0.78

(Ref. IEEE wiring regulation Seventeenth edition)





□ 300/500 V Flexible cords

Current rating and Volatge drop of Cables given below are based on the IEEE wiring regulations 17th edition. For detailed information, reference should be made to Appendix 4 of above IEEE edition.

Current Carrying Capacity, Voltage Drop and Mass Supportable.

Nominal Area of	Current-carr	ying Capacity	Voltag	Maximum Mass supported by	
Conductor	Single-phase a.c.	Three-phase a.c.	Single-phase a.c.	Three-phase a.c.	flexible cord
Sq.mm	А	А	mV/A/m	mV/A/m	kg
0.5	3	3	100	86	2
0.75	6	6	67	58	3
1	10	10	50	43	5
1.5	16	16	35	29	5
2.5	25	20	21	17	5
4	32	25	13	11	5

Installation conditions for above Rating:

Maximum Conductor Temp. for PVC Type 5 Insulation 85° C
Maximum Conductor Temp. for PVC TI1/Type A Insulation 70° C
Ambient Air Temperature 30° C

Rating factor for variation in Ambient temperature

Ambient temperature (°C)	25	30	35	40	45	50	55	60	65
PVC Insulated Cable (85°C)	1	1	1	1	1	0.94	0.87	0.79	0.71
PVC Insulated Cable (70°C)	1	1	0.94	0.87	0.79	0.71	0.61	0.5	0.35

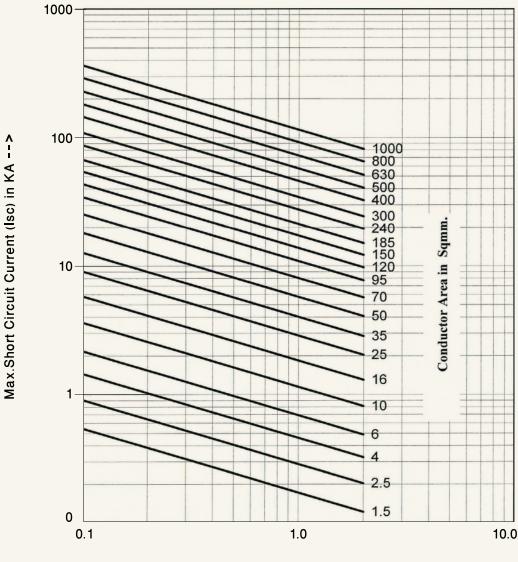


■ Short Circuit Curves For Copper Conductor PVC 70°C Insulated Cable

$$Isc = 0.115 \frac{A}{\sqrt{t}}$$

Isc - Short Circuit Current in KA A - Conductor Area in Sqmm t - Short Circuit Time in Sec.

Note: Max. permissible conductor temprature during short circuit = 160° C

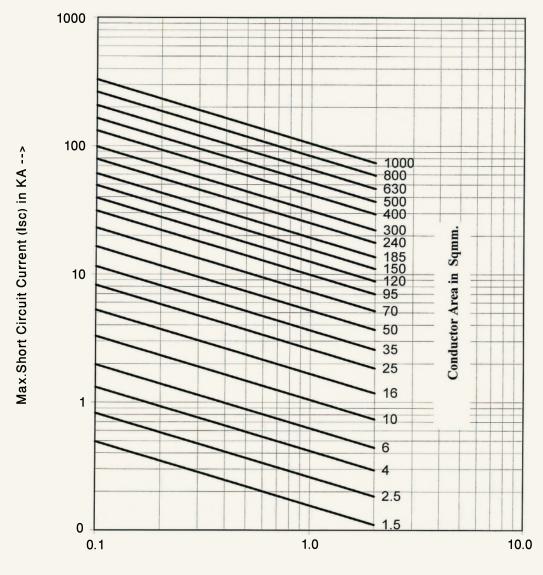


■ Short Circuit Curves For Copper Conductor PVC 85° C Insulated Cable

$$Isc = 0.104 \frac{A}{\sqrt{t}}$$

Isc - Short Circuit Current in KA A - Conductor Area in Sqmm t - Short Circuit Time in Sec.

Note: Max. permissible conductor temprature during short circuit = 160° C

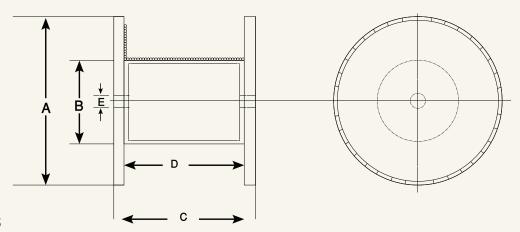


Short Circuit Time Sec (t) -->



□ DRUM SIZES AND DIMENSIONS

- A- Flange diameter (Excluding Lagging), mm
- **B-** Barrel diameter, mm
- C- Overall width, mm
- D- Traves width, mm
- E- Minimum spindle hole diameter, mm



DIMENSIONS

Drum size D-No	А	В	С	D	E
D-6	600	250	470	400	110
D-7	700	325	570	500	110
D-8	800	375	570	500	110
D-9	900	425	620	550	110
D-10	1000	500	690	600	110
D-11	1100	575	740	650	110
D-12	1200	675	950	850	110
D-14	1400	800	950	850	110
D-16	1600	950	970	850	110
D-18	1800	1100	1220	1100	110
D-19	1900	1100	1230	1100	110
D-20	2000	1300	1235	1100	110
D-21	2100	1150	1290	1100	110
D-22	2200	1400	1390	1250	110
D-23	2340	1200	1795	1625	110
D-24	2400	1200	1795	1625	110
D-25-S	2540	1200	1825	1625	110
D-25	2540	1400	1800	1625	110
D-26	2600	1400	1970	1800	110

Drum dimensions in actual deliveries are subject to change without notice.

NOTES



NOTES

