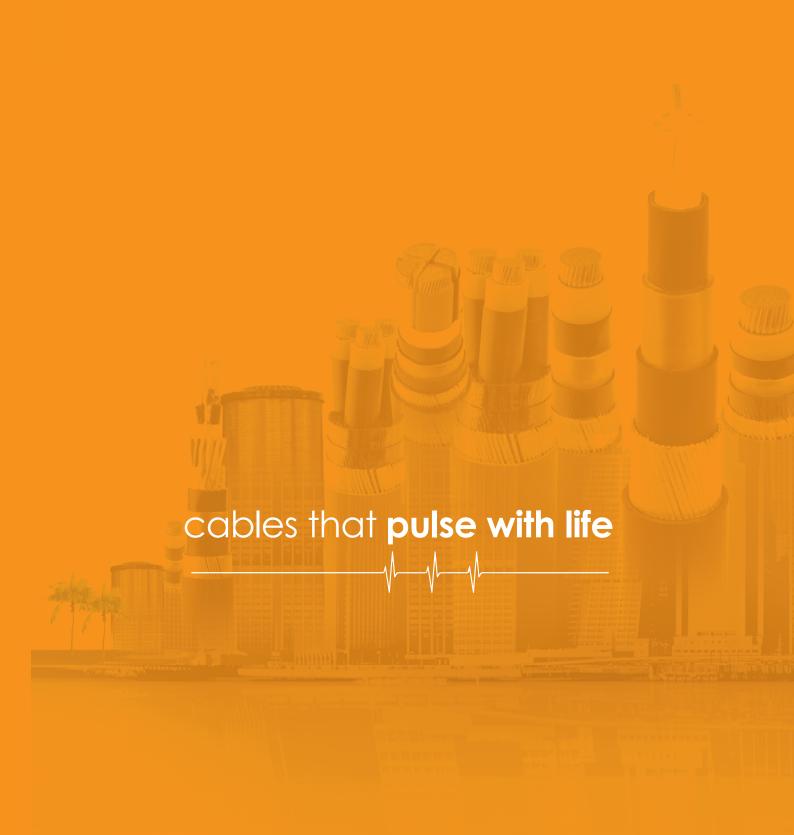


<mark>شركة مجموعة الخليج للكابلات والصناعات</mark> الكهربانية ش.م.ك.ع. Gulf Cables & Electrical Industries Group Co. K.S.C.P.

We Build Cables For Life



DOMESTIC WIRES



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□ Introduction:

Gulf Cables and Electrical Industries Group Co. K.S.C.P (GC) 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
Fire resistant Cables
PVC or XLPE Insulated Conductors
Domestic Applications / Internal Wiring
LSZH 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

CERTIFIED BY TUV NORD

ISO 45001:2018

BS EN ISO 2015: 9001 CERTIFIED BY BASEC

ISO 9001: 2015 CERTIFIED BY SGS





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 RANGE

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

General Note:

- The tabulations on subsequent pages furnish overall dimensions, weight, drum dimensions etc.. Please note that these are "Approximate" values and subject to manufacturing tolerance. We reserve the right to change the data because of product development and / or changes in standard without notice.
- Although Gulf Cables has made every reasonable effort to ensure its accuracy, the information contained herein is subject to error of omission and to change without notice. In no event will Gulf Cable be liable for any damages whatsoever, arising in connection with the information described.



□ Quality & Integrated Management System

Quality has always been our top priority and to meet customer's expectation has been our prim 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.

Since 1997, we have Quality Assurance System to ISO:9001. The System has been certified by TUV-Nord, as well as BASEC. The salient features of this system include:

- Well defined and documented system comprising of System manual, Operating procedures, work instructions, Quality Assurance plans, Material specifications, work specifications, traceability system, Design quidelines.
- Sound vender development and approval system
- Systematic scrutiny of customer requirements and internal communication to integrate the same into product
- Thorough incoming material inspection
- Round the clock process checks at defined points and frequencies
- 100% testing before any product leaves our premises
- Well established customer interface

Our Jordan Plant management system is certified according to requirements of ISO 9001:2015 by SGS.







■ Environmental Management System

We at GC recognize that Environmental Issues have become critical challenge globally. We are committed to contributing towards "Leaving a beautiful planet as a legacy to future generations".

For achieving this, we believe that we need to work in harmony with the nature; recognize the environmental impact related to our business activities & products and undertake protection of environment through technologically and economically feasible goals within our scope.

To pursue this in year 2007, we have implemented Environmental Management System satisfying requirements of ISO:14001. The System has been certified by TUV-Nord.







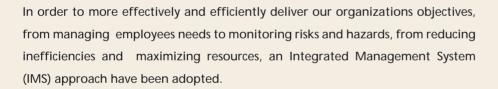
□ Occupational Health & Safety Management System

We at GC recognize that way to greater sustainability is through better Health measures for employees and better Safety measures for protecting men, machines, materials and environment.

For achieving this, we believe that we need to provide a healthy andsafe working

habitat at our facility and take adequate steps to prevent accidents and injury arising from the course of our activities, by minimizing, so far as is reasonably practicable, the causes of hazards inherent in the working environment.

To pursue this in year 2007, we have implemented Occupational Health & Safety Management System satisfying requirements of OHSAS:18001 and continue to meet the upgraded standard ISO 45001. The System has been certified by TUV-Nord.



Our integrated Management system includes all three ISO Standards requirements of ISO 9001, ISO 14001 & ISO 45001. Established IMS policy is made aware to employees at all levels within GC and available to the interested parties/stake holders in GC website.









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

Nominal Area of Conductor	Maximum Conductor DC Resistance at 20°c	Nominal 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+/-5% 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

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

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

** 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.

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□ 600 / 1000 V - SINGLE CORE

COPPER CONDUCTOR PVC INSULATED CABLES FOR SWITCHGEAR AND CONTROLGEAR WIRING TYPE CU AND CR AS PER BS 6231 -/1998 (CU / PVC)

Type	Nominal Area of Conductor	Maximum Conductor DC Resistance at 20°c	Nominal 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+/-5% 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 OR PVC TI3 Heat Resisting 90° C compound. Cables conform to BS 6231-/1998



□ 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 DC Resistance at 20°c	Nominal Thickness of Insulation	Mean Overall Diameter (Max.)	Approx. Cable Weight	Standard Packing Iength	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+/-5% 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.

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□ 600 / 1000 V - SINGLE CORE FLEXIBLE CABLES

COPPER CONDUCTOR PVC INSULATED CABLES FOR SWITCHGEAR AND CONTROLGEAR WIRING TYPE CK AS PER BS 6231 - 2006

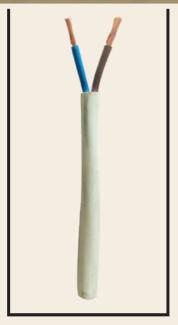
(CU / PVC)

Nominal Area of Conductor	Maximum Conductor DC Resistance at 20°c	Nominal 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	COIL COIL	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	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+/-5% 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 TI3 Heat Resisting 90°C compound.

*Cables generally to BS 6231-2006.

All other Cables conform to BS 6231-2006.



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

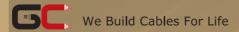
Nominal Area of Conductor	Maximum Conductor DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Mean Overall Diameter Max.	Approx. Cable Weight	Standard Packing Length	Drum Size/ Coil
Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard / Metre	
0.5	39.0	0.6	0.8	7.0	53	100Y	COIL
0.75 1.0	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+/-5% 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 DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal 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
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 1.0	1.2 1.4 1.4 1.4	13.0 15.5 19.0 21.5	240 350 535 745	Metre+/-5% 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 DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal 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+/-5% 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 DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal 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
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+/-5% 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

DOMESTIC WIRES



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

Nomin	al Area		imum ance at 20°C	Nominal Thickness	Nominal Thickness of	Overall Dimensions	Approx. Cable	Standard Packing Length	
Conductor	Circuit protective Conductor	Conductor	Circuit protective Conductor	of Insulation	Outer of cable (Max Sheath		Weight	in Coil / Drum	
Sqr	Sqmm Ohm/km		n/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+/-5%	
16	6	1.15	3.08	1.0	1.3	11.0x22.5	525	1000M Drum+/-5%	

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

All other conductors Circular stranded (Class 2).

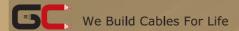
Circuit protective conductors - solid except for 10 sqmm & 16 sqmm cables.

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 DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal 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	4.7x7.4	62	100 COIL
1.5*	12.1	0.7	0.9	5.4x8.4	80	100 COIL
1.5	12.1	0.7	0.9	5.6x8.8	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	7.2x11.5	155	100 COIL
6	3.08	0.8	1.1	8.0x13.0	205	100 COIL
10	1.83	1.0	1.2	9.6x22.5	320	1000M Drum+/-5%
16	1.15	1.0	1.3	11.0x26.5	450	1000M Drum+/-5%

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

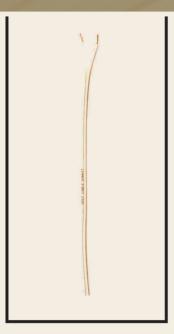
All other conductors Circular stranded (Class 2).

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.

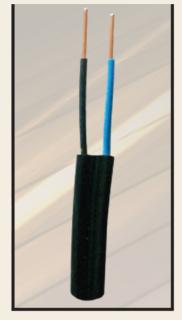




□ 300/300V - PARALLEL TWIN COPPER CONDUCTOR PVC INSULATED HO 3 VH - H AS PER BS 6500 - 1994 (CU / PVC)

Nominal Area of Conductor	Maximum Conductor DC Resistance at 20°c	Conductor DC Dc esistance Nominal Thickness 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 DC Resistance at 20°c	Nominal Thickness of Insulation	Nominal Thickness of Outer Sheath	Approx. Overall Dimensions	Approx. Cable Weight	Standard Coil Length
NO. x Sqmm	Ohm/Km	mm	mm	mm	Kg/Km	Yard
2×1.5	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
Maximum Conductor Temp. for PVC TI1/Type A Insulation
Ambient Air Temperature

85°C
70°C
30°C

□ Voltage Drop (mV/A/m)

Nominal Area of conductor		oles single p nclosed in co or trunking)	onduit	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	X	Z	r	X	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 $(mV/A/m)_r$, 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				N	umber	of circ	cuits or	multic	ore Ca	bles				
(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-carry	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 $$85^{\circ}$ C Maximum Conductor Temp. for PVC TI1/Type A Insulation 70° C Ambient Air Temperature $$30^{\circ}$ 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

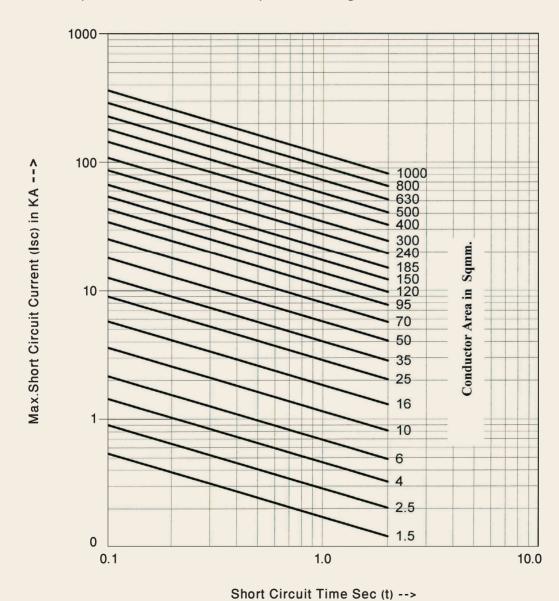


■ Short Circuit Curves For Copper Conductor PVC 70°C Insulated Cable

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

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



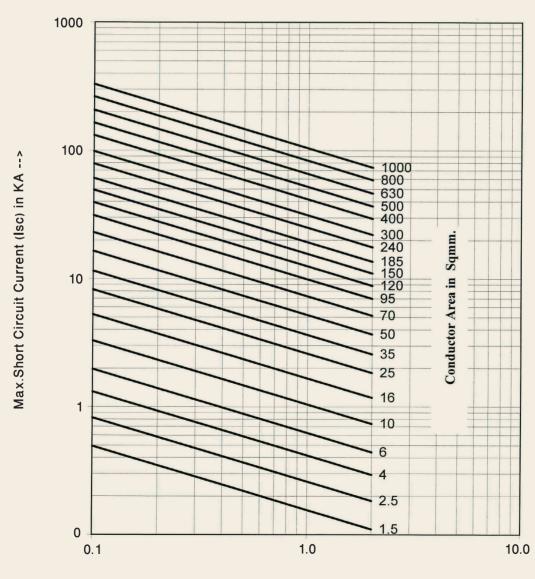
□ Short Circuit Curves For Copper Conductor PVC 85° C Insulated Cable

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

Isc - Short Circuit Current in KA A - Conductor Area in Sqmm

t - Short Circuit Time in Sec.

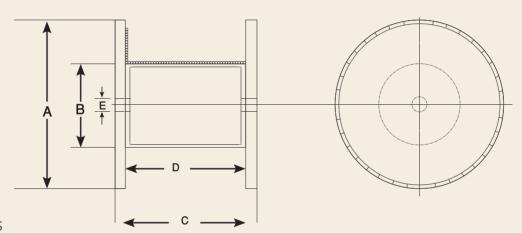
Note: Max. permissible conductor temprature during short circuit = 160° C



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

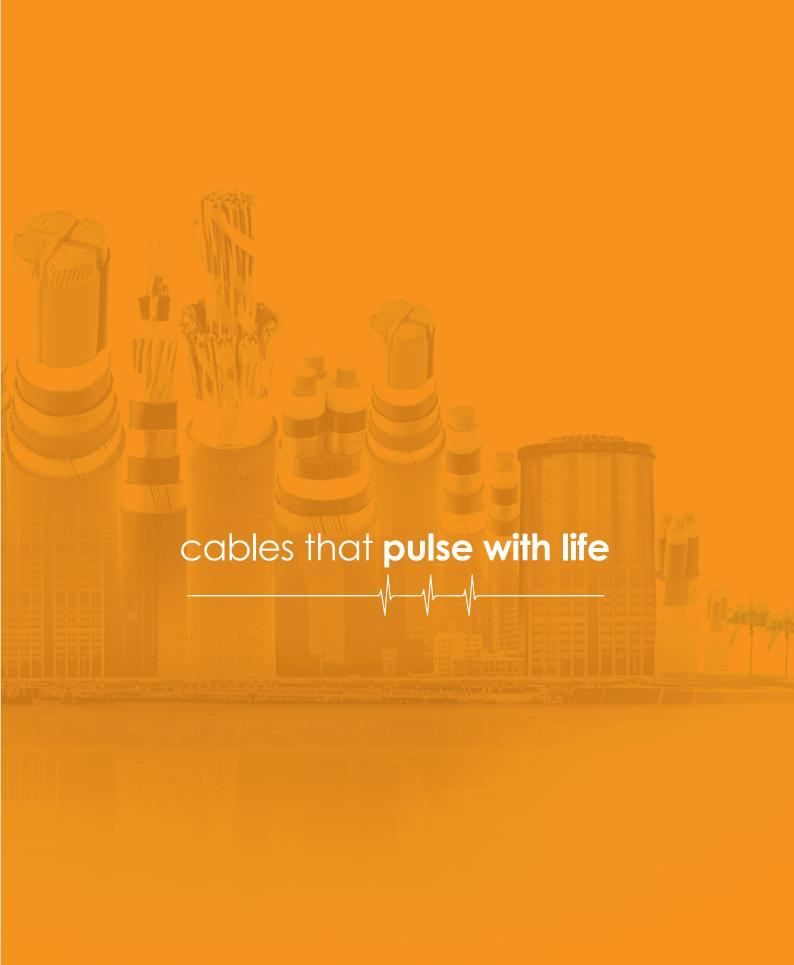
Drum size D-No	А	В	С	D	Е
D-6	600	250	470	400	110
D-7	700	325	570	500	110
D-8	800	375	570	500	110
D-9	900	425	620	550	110
D-10	1000	500	690	600	110
D-11	1100	575	740	650	110
D-12	1200	675	950	850	110
D-14	1400	800	950	850	110
D-16	1600	950	970	850	110
D-18	1800	1100	1220	1100	110
D-19	1900	1100	1230	1100	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

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