new ega

ELECTRIC AL INDUSTRIES

نيو إيجا للصناعات الكهربائية

CATALOG 2023



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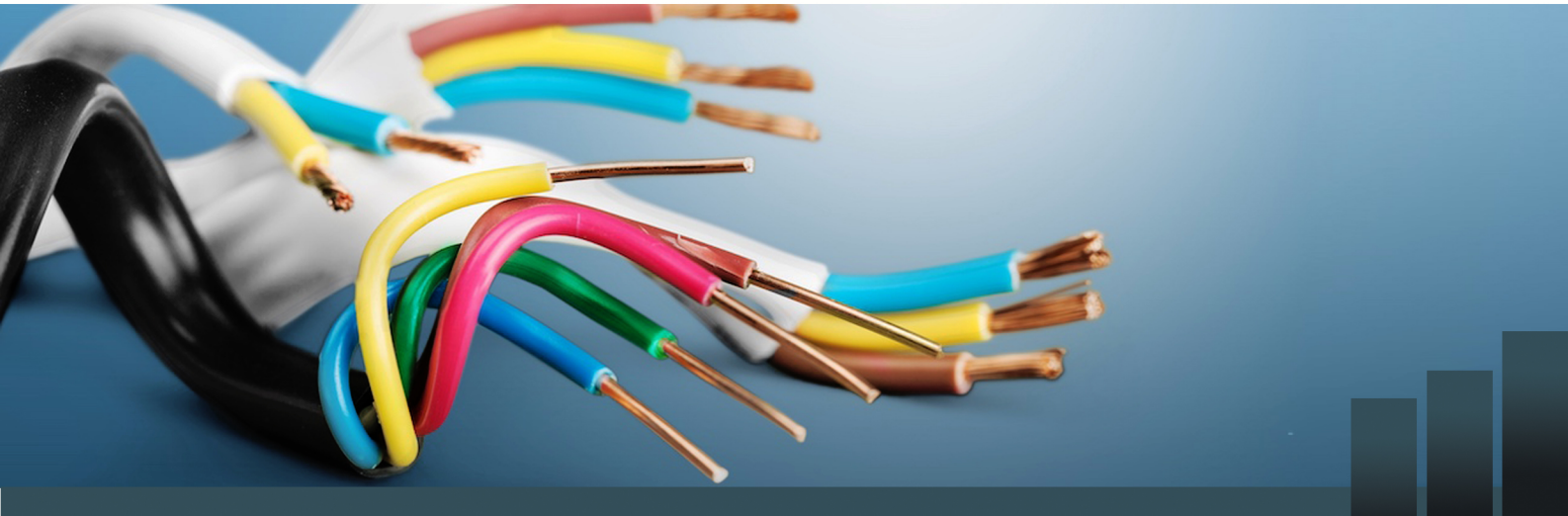


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ABOUT COMPANY

new ega

is one of the leading companies in the market in the manufacturing and supplying electrial cables and wire industries.

new ega established in 2008
office / 52 abdel khalek tharwat street - downtown - cairo
factory / mubarak industrial zone, phase 2 - quesna - menoufia

new ega offers a complete range of cables wires and astrong distribution network covering wholesale and supply markets for government, tourism and private projects.

new ega has an integrated team of professional engineers in this field the quality of the product is checked during all steps of production through specialized technicians starting from the receipt of raw materials until the finished product .

new ega

firmly believes that quality is the most important factor during manufacturing process in order to obtain safe and reliable products. new ega is fully committed to manufacturing the product with the necessary quality standards. Cables and wires of new ega company is manufactured in accordance with the Egyptian and international standards.

The Egyptian standards (2948/2005 and 182/2023),
The international standards (IEC 60228, 60227, 60502)
and the implementation of the latest international standards for quality standards. new ega and wires are manufactured in accordance with the results of adequate market research and customer requirements. The quality management system of complies with the quality of new ega company which certified to :
ISO 9001 - ISO 14001 - ISO 45000
The factory that manufactures all kinds of wires and electrical cables.

The Factory

The factory works with the latest technology which leads to manufacture a variety of high quality products such as :



1. Electrical conductors:
Solid, stranded and flexible Copper conductors and Aluminum conductors
2- Power cables:
Fixed and movable cables installation connections
3. Bared copper cables:
Stranded Bared copper and aluminum conductors
4. Control cables:
Light current systems such as speakers, Fire alarms, audio systems, etc.)

new ega also has a test laboratory to control the quality of cables overall the production stages.

The laboratory includes all testing equipment that covers all tests provided in the standard specifications. The factory is planned to include an integrated technical management system to serve the objectives and ambitions of the company in covering the industry of wires and all kinds of cables of different quality and high quality of production capacity.

The factory was equipped with the latest production lines to meet the required production capacity.

new ega aims to achieve the difficult equation with the highest quality with the lowest cost Based on several factors:

1- Continuous development of production equipment's.
2- Dependence on the latest scientific techniques in the selection of raw materials.
3 - Continuous training of human power in the company.
4- Continuous development of production quality control capabilities.

This Catalogue Contains Design ,
Constraction And Technical Data
Of new ega Whole Range Of Soled, Flexible
Stranded Cables & Over Head Conductors
Including Bare Soft Or Hard Drawm Copper
Aluminium Conductors.



General Technical Data

Selecting of a Power Cable

The following factors are important when selecting a suitable cable construction which is required to transport electrical energy from the power station to the consumer:

- Maximum operating voltage.
- Insulation level.
- Frequency.
- Load to be carried.
- Type of installation.
  - Underground (direct or in ducts).
  - In air.
- Specification and requirements to be met.
- Magnitude and duration of possible overload.
- Magnitude and duration of short-circuit current.
- Voltage drop.
- Length of line.
- Chemical and physical properties of soil.
- Max. and min. ambient air temperatures and soil temperature.

Voltage

The Standard rated voltage of a cable is denoted by Uo/U (Um),

where

Uo: is the rated power-frequency voltage between conductor and earth or metallic screen.

U: is the rated power-frequency voltage between conductors.

Um: is the maximum continuously permissible operating voltage of a cable at time or in any part of the network.

U_o/U (kV)	0.6/1	1.8/3	3.6/6	6/10	8.7/15	12/20	18/30	38/66	76/132	127/220
U_m (kV)	1.2	3.6	7.2	12	17.5	24	36	72.5	145	245

Note: Cable design for 6/10, 12/20 and 18/30 kV is applicable for 6.35/11, 12.7/22 and 19/33 kV respectively.

Standards

Cables described in this catalogue are standard types, and their performance has been proved in operation.
Construction and tests are in accordance with the recommendation of IEC publications where ever applicable.
Power cables in accordance to other standard (e.g. BS, HD, NEMA) can be manufactured upon customer's request.

Weight and Dimension

Weight and dimension are approximate.
The deviations are due to manufacturing tolerance.

Jacket Marking

Standard embossed outer Jacket Marking consisting of:

1- Name of manufacturer " C.B.H Cables "
2- Type designation, size of conductor, rated voltage.
3- Continous length marking every meter.
4- Year of manufacture.
5- Any special part no. on request.

Cable Technical Parameters

1. Resistance

The values of conductor DC resistance given in the following tables are based on 20 °C. In case the DC resistance is required at any other temperature the following formula is used

$R_\theta = R_{20} [1+\alpha (\theta - 20)]$ Ω/km

Where

R_θ	: Conductor DC resistance at θ °C	Ω/km
R_{20}	: Conductor DC resistance at 20 °C	Ω/km
θ	: Operating temperature	°C
α	: Resistance temperature coefficient	1 / °C

= 0.00393 for Copper
= 0.00403 for Aluminium

To get AC resistance of the conductor at its operating temperature the following formula is used

$R_{AC} = R_\theta (1+ y_p + y_s)$

Where

y_p and y_s are proximity and skin effect factors respectively which depend on operation frequency and cable spacing.

2. Inductance

The self and mutual inductance are formulated as follow:

$L= K + 0.2 \ln (\frac{2S}{d})$ mh/km

Where

L	: Inductance	mh/km
K	: Constant depends on the conductor's number of wires	
d	: Conductors diameter	mm
S	: Axial spacing between cables in trefoil formation	mm
S	: 1.26 x axial spacing between cables in flat formation	mm

3. Capacitance

The capacitance is formulated as follow

$C = \frac{\epsilon_r}{18 \ln \frac{D}{d}}$ µf/km

Where

C	: Capacitance	µ f/km
ϵ_r	: Relative permittivity of insulation material	
D	: Diameter over insulation	mm
d	: Conductor diameter	mm

4. Insulation Resistance

The Insulation Resistance is formulated as follow

$R = K \ln (\frac{D}{d})$

Where

R	: Insulation resistance	MΩ/km
K	: Constant depends on the insulation material	
d	: Diameter of the conductor (including the semiconducting layer)	mm
D	: Diameter of the insulated core	mm

5. Charging Current

The charging current is the capacitive current which flows when AC voltage is applied to the cables as a result of the capacitance between the conductor and earth, and for a multicore cable in which cores are not screened, between conductors. The value can be derived from the following equation.

$I_C = U_o \omega C 10^{-6}$ A/km

Where

I_C	: Charging current	A/km
U_o	: Voltage between phase and earth.	V
ω	: 2 π f	
f	: Frequency	Hz
C	: Capacitance to neutral	µf/km

6. Dielectric Losses

The dielectric losses of an AC cable are proportional to the capacitance, the frequency, the phase voltage and the power factor. The value can
be derived from the following equation.

$W_D = 2 \pi f C U_o^2 \tan \delta 10^{-6}$ watt/km/phase

Where

W_D	: Dielectric losses watt/km/phase	
f	: Frequency	Hz
C	: Capacitance to neutral	µf/km
U_o	: Voltage between phase and earth	V
tan δ	: Dielectric power factor	

7. Cable Ampacity

Cable ampacity or current carrying capacity is defined as the continuous maximum current the cable can carry at its maximum operating temperature.
In the technical information tables the following installation conditions were assumed during the current calculation:

- Ambient air temperature = 40 °C
- Ground temperature = 35 °C
- Ground thermal resistivity = 120 °C. cm/Watt
- Burial depth = 0.5 mt.

- In case of installation conditions are different from the stated, derating factors tabulated in tables 2 to 10 must be used for calculating the new current carrying capacity.
- All cable ampacities are based on IEC 60287

8. Cable Short Circuit Capacity

Tables 12-16 give the short circuit current for conductor and screen based on the following conditions

A- Short circuit starts from the maximum operating conductor/screen temperature.

B- Maximum temperature during short circuit

C- Maximum short circuit current duration is 5 seconds.

If the short circuit current is required at duration not metioned in the catalogue, it is obtained by dividing the short circuit current for 1 second by the square root of the required duration as follows:

$$I_{s.c.t} = \frac{I_{s.c.1}}{\sqrt{t}}$$

Where

$I_{s.c.t}$	: Short circuit current for t second	kA
$I_{s.c.1}$	: Short circuit current for 1 second	kA
t	: Duration	Sec.

9. Voltage Drop

When current flows in a cable conductor there is a voltage drop between the ends of the conductor which is the product of the current and the impedance.

The following equations should be used to calculate the voltage drop:

A. Single phase circuit.

$$V_d = 2\, I\, \ell\, (R \cos \varnothing + X \sin \varnothing) \quad V$$

B. Three phase circuit.

$$V_d = \sqrt{3}\, I\, \ell\, (R \cos \varnothing + X \sin \varnothing) \quad V$$

Where

V_d	: Voltage drop	V
I	: Load current	A
R	: AC Resistance	Ω/km
X	: Reactance	Ω/km
cos ø	: Power factor	
ℓ	: Length	km
$X = \omega\, L\, 10^{-3}$		Ω/km

ω= 2 π f
L = from tables
mh/km
Relation between cos ø and sin ø

Cos Ø	1.0	0.9	0.8	0.71	0.6	0.5
Sin Ø	0.0	0.44	0.6	0.71	0.8	0.87

* L.V. cable systems should be planned so as not to exceed voltage drop 3-5 % in normal operating conditions.
* Voltage drop data for L.V. Cable (Single & Multi Core) are tabulated in Tables 17 & 18.



Table 1

Electrical Properties

Metal	Relative Conductivity Copper 100%	Electrical Resistivity at 20 °C ohm. m (10^{-8})	Temperature Coefficient of Resistance per °C
Copper (annealed)	100	1.7241	0.00393
Copper (hard drawn)	97	1.777	0.00393
Tinned copper	95 - 97	1.741 - 1.814	0.00393
Aluminium	61	2.8264	0.00403
Lead	8	21.40	0.00400

Physical Properties

Property	Unit	Copper	Aluminium	Lead
Density at 20 °C	kg / m^3	8890.0	2703.0	11340.00
Coeff. thermal expansion	Per °C x 10^{-6}	17.0	23.0	29.00
Melting point	°C	1083.0	659.0	327.00
Thermal conductivity	W/cm °C	3.8	2.4	0.34
Ultimate tensile strength	Mn/m^2	225.0	70-90	-

Derating Factors

Table 2

Ground Temperature Derating Factor

Ground Temperature °C	15	20	25	30	35	40	45	50	55
PVC cables rated 70 °C	1.25	1.19	1.13	1.07	1.00	0.93	0.85	0.76	0.65
XLPE cables rated 90 °C	1.16	1.13	1.09	1.04	1.00	0.95	0.90	0.85	0.80

Table 3

Air Temperature Derating Factor

Air temperature °C	20	25	30	35	40	45	50	55
PVC cables rated 70 °C	1.29	1.22	1.15	1.08	1.00	0.95	0.82	0.71
XLPE cables rated 90 °C	1.18	1.14	1.10	1.05	1.00	0.90	0.89	0.84

Table 4

Burial Depth Derating Factor

Depth of Laying mt.	Cables Cross Section		
	Up to 70 mm²	95 up to 240 mm²	300 mm² & above
0.50	1.00	1.00	1.00
0.60	0.99	0.98	0.97
0.80	0.97	0.96	0.94
1.00	0.95	0.93	0.92
1.25	0.94	0.92	0.89
1.50	0.93	0.90	0.87
1.75	0.92	0.89	0.86
2.00	0.91	0.88	0.85

Table 5

Soil Thermal Resistivity Derating Factor

Soil Thermal Resistivity in °C. cm/Watt	80	90	100	120	150	200	250	300
Rating factor	1.17	1.12	1.07	1.0	0.91	0.80	0.73	0.67

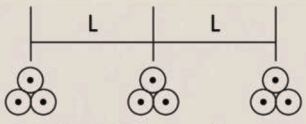
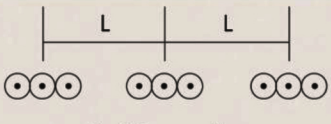
Table 6

PVC Rated Temperature Derating Factor

Type of PVC Rated Temperature °C	70	85
Rating factor	1.000	1.195

Table 7

Trefoil or Flat Formation Derating Factors for Three Single Core Cables Laid Direct in Ground

Number of Circuits	 Trefoil formation		 Flat formation			
	Touching		Spacing = 0.15 M		Spacing = 0.30 M	
nr	Trefoil	Flat	Trefoil	Flat	Trefoil	Flat
2	0.77	0.80	0.82	0.85	0.88	0.91
3	0.66	0.69	0.73	0.76	0.80	0.83
4	0.60	0.63	0.68	0.71	0.74	0.77
5	0.56	0.59	0.64	0.67	0.72	0.75
6	0.53	0.57	0.61	0.64	0.70	0.73

* L = Spacing

Table 8

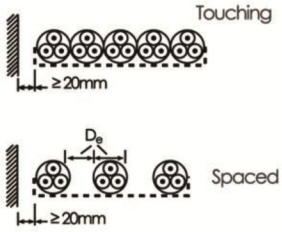
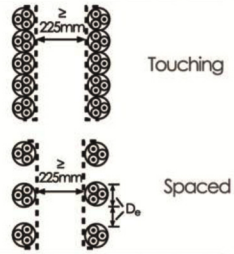
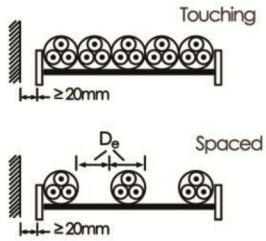
Trefoil Formation Derating Factors for Multi-core Core Cables Laid Direct in Ground

Number of Circuits	 Trefoil Formation						 Flat Formation	
	Touching		Spacing = 0.15 M				Spacing = 0.30 M	
nr	Trefoil	Flat	Trefoil	Flat			Trefoil	Flat
2	0.81	0.81	0.87	0.87			0.91	0.91
3	0.69	0.70	0.76	0.78			0.82	0.84
4	0.62	0.63	0.72	0.74			0.77	0.81
5	0.58	0.60	0.66	0.70			0.73	0.78
6	0.54	0.56	0.63	0.67			0.70	0.76

* L = Spacing

Table 9

Reduction factors for groups of more than one multi-core cable in air
To be applied to the current-carrying capacity for one multi-core cable in free air

Number of Trays	Number of Cables						Method of installation
	1	2	3	4	6	9	
1	1.00	0.88	0.82	0.79	0.76	0.73	Cables on perforated trays 
2	1.00	0.87	0.80	0.77	0.73	0.68	
3	1.00	0.86	0.79	0.76	0.71	0.66	
1	1.00	1.00	0.98	0.95	0.91	-	
2	1.00	0.99	0.96	0.92	0.87	-	
3	1.00	0.98	0.95	0.91	0.85	-	
1	1.00	0.88	0.82	0.78	0.73	0.72	Cables on vertical perforated trays 
2	1.00	0.88	0.81	0.76	0.71	0.70	
1	1.00	0.91	0.89	0.88	0.87	-	
2	1.00	0.91	0.88	0.87	0.85	-	
1	1.00	0.87	0.82	0.80	0.79	0.78	Cables on ladder supports, cleats, etc. 
2	1.00	0.86	0.80	0.78	0.76	0.73	
3	1.00	0.85	0.79	0.76	0.73	0.70	
1	1.00	1.00	1.00	1.00	1.00	-	
2	1.00	0.99	0.98	0.97	0.96	-	
3	1.00	0.98	0.97	0.96	0.93	-	

NOTE 1 Values given are averages for the cable types and range of conductor sizes considered. The spread of values is generally less than 5%

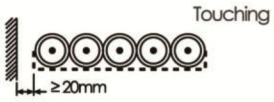
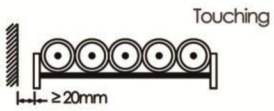
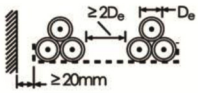
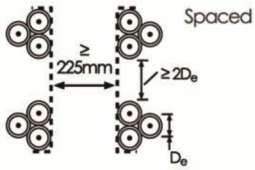
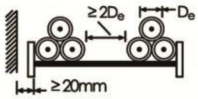
NOTE 2 Factors apply to single layer groups of cables as shown above and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and must be determined by an appropriate method.

NOTE 3 Values are given for vertical spacing between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced.

NOTE 4 Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing the factors should be reduced.

Table 10

Reduction factors for groups of more than one circuit of single-core cables (Note 2)
To be applied to the current-carrying capacity for one circuit of single-core cables in free air

Number of Trays	Number of Cables			Use as a multiplier to rating for	Method of installation	
	1	2	3			
1	0.98	0.91	0.87	Three cables in horizontal formation	Perforated trays (Note 3)	
2	0.96	0.87	0.81			
3	0.95	0.85	0.78			
1	1.00	0.97	0.96	Three cables in horizontal formation	Ladder supports, cleats, etc. (Note 3)	
2	0.98	0.93	0.89			
3	0.97	0.90	0.86			
1	1.00	0.98	0.96	Three cables in trefoil formation	Perforated trays (Note 3)	
2	0.97	0.93	0.89			
3	0.96	0.92	0.86			
1	1.00	0.91	0.89		Vertical perforated trays (Note 4)	
2	1.00	0.90	0.86			
1	1.00	1.00	1.00		Ladder supports, cleats, etc. (Note 3)	
2	0.97	0.95	0.93			
3	0.96	0.94	0.90			

NOTE 1 Values given are averages for the cable types and range of conductor sizes considered. The spread of values is generally less than 5%

NOTE 2 Factors are given for single layers of cables (or trefoil groups) as shown in the table and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and should be determined by an appropriate method.

NOTE 3 Values are given for vertical spacings between trays of 300 mm. For closer spacing, the factors should be reduced.

NOTE 4 Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced.

NOTE 5 For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table.

Table 11

Max. Short Circuit Temperature for Cable Components

Material	Item	Temp. °C
Insulation	PVC insulation	140 For C.S.A > 300 mm^2
		160 For C.S.A ≤ 300 mm^2
	XLPE insulation	250
Jacket	PVC sheathing	200
	LLDPE sheathing	150
	HDPE sheathing	180
Metal	Lead sheath	170
	Lead sheath - alloy	200*
	Copper	250
	Aluminum	250

* Temp. = 210 °C for cables with rated voltages above 30kV (U_m=36 kV),

Table 12

kA Short Circuit Current - Copper Conductor - PVC Insulated

C.S.A. mm^2	Duration sec.									
	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0
16	5.8	4.1	3.4	2.9	2.6	1.8	1.3	1.1	0.9	0.8
25	9.1	6.4	5.2	4.5	4.1	2.9	2.0	1.7	1.4	1.3
35	12.7	9.0	7.3	6.4	5.7	4.0	2.8	2.3	2.0	1.8
50	18.2	12.9	10.5	9.1	8.1	5.8	4.1	3.3	2.9	2.6
70	25.5	18.0	14.7	12.7	11.4	8.1	5.7	4.6	4.0	3.6
95	34.5	24.4	19.9	17.3	15.5	10.9	7.7	6.3	5.5	4.9
120	43.6	30.9	25.2	21.8	19.5	13.8	9.8	8.0	6.9	6.2
150	54.5	38.6	31.5	27.3	24.4	17.3	12.2	10.0	8.6	7.7
185	67.3	47.6	38.8	33.6	30.1	21.3	15.0	12.3	10.6	9.5
240	87.3	61.7	50.4	43.6	39.0	27.6	19.5	15.9	13.8	12.3
300	109.1	77.1	63.0	54.5	48.8	34.5	24.4	19.9	17.3	15.4
400	130.0	91.9	75.1	65.0	58.2	41.1	29.1	23.7	20.6	18.4
500	162.5	114.9	93.8	81.3	72.7	51.4	36.3	29.7	25.7	23.0
630	204.8	144.8	118.2	102.4	91.6	64.8	45.8	37.4	32.4	29.0

Table 13

kA Short Circuit Current - Aluminium Conductor - PVC Insulated

C.S.A. mm^2	Duration sec.									
	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0
16	3.8	2.7	2.2	1.9	1.7	1.2	0.9	0.7	0.6	0.5
25	6.0	4.2	3.5	3.0	2.7	1.9	1.3	1.1	1.0	0.8
35	8.4	5.9	4.9	4.2	3.8	2.7	1.9	1.5	1.3	1.2
50	12.0	8.5	6.9	6.0	5.4	3.8	2.7	2.2	1.9	1.7
70	16.8	11.9	9.7	8.4	7.5	5.3	3.8	3.1	2.7	2.4
95	22.8	16.1	13.2	11.4	10.2	7.2	5.1	4.2	3.6	3.2
120	28.8	20.4	16.7	14.4	12.9	9.1	6.4	5.3	4.6	4.1
150	36.0	25.5	20.8	18.0	16.1	11.4	8.1	6.6	5.7	5.1
185	44.5	31.4	25.7	22.2	19.9	14.1	9.9	8.1	7.0	6.3
240	57.7	40.8	33.3	28.8	25.8	18.2	12.9	10.5	9.1	8.2
300	72.1	51.0	41.6	36.0	32.2	22.8	16.1	13.2	11.4	10.2
400	86.0	60.8	49.7	43.0	38.5	27.2	19.2	15.7	13.6	12.2
500	107.5	76.0	62.1	53.8	48.1	34.0	24.0	19.6	17.0	15.2
630	135.5	95.8	78.2	67.7	60.6	42.8	30.3	24.7	21.4	19.2

Table 14

kA Short Circuit Current - Copper Conductor - XLPE Insulated

C.S.A. mm^2	Duration sec.									
	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0
16	7.2	5.1	4.2	3.6	3.2	2.3	1.6	1.3	1.1	1.02
25	11.3	8.0	6.5	5.7	5.1	3.6	2.5	2.1	1.8	1.60
35	15.8	11.2	9.1	7.9	7.1	5.0	3.5	2.9	2.5	2.24
50	22.6	16.0	13.1	11.3	10.1	7.2	5.1	4.1	3.6	3.20
70	31.7	22.4	18.3	15.8	14.2	10.0	7.1	5.8	5.0	4.5
95	43.0	30.4	24.8	21.5	19.2	13.6	9.6	7.8	6.8	6.1
120	54.3	38.4	31.3	27.1	24.3	17.2	12.1	9.9	8.6	7.7
150	67.8	48.0	39.2	33.9	30.3	21.5	15.2	12.4	10.7	9.6
185	83.7	59.2	48.3	41.8	37.4	26.5	18.7	15.3	13.2	11.8
240	108.5	76.7	62.7	54.3	48.5	34.3	24.3	19.8	17.2	15.3
300	135.7	95.9	78.3	67.8	60.7	42.9	30.3	24.8	21.5	19.2
400	180.9	127.9	104.4	90.4	80.9	57.2	40.4	33.0	28.6	25.6
500	226.1	159.9	130.5	113.1	101.1	71.5	50.6	41.3	35.8	32.0
630	284.9	201.4	164.5	142.4	127.4	90.1	63.7	52.0	45.0	40.3
800	361.8	255.8	208.9	180.9	161.8	114.4	80.9	66.0	57.2	51.2
1000	452.2	319.8	261.1	226.1	202.2	143.0	101.1	82.6	71.5	64.0
1200	542.6	383.7	313.3	271.3	242.7	171.6	121.3	99.1	85.8	76.7
1600	723.5	511.6	417.7	361.8	323.6	228.8	161.8	132.1	114.4	102.3
2000	904.4	639.5	522.2	452.2	404.5	286	202.2	165.1	143	127.9
2500	1130.5	799.4	652.7	565.3	505.6	357.5	252.8	206.4	178.8	159.9

Table 15

kA Short Circuit Current - Aluminium Conductor - XLPE Insulated

C.S.A. mm^2	Duration Sec.									
	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0
16	4.7	3.4	2.7	2.4	2.1	1.5	1.1	0.9	0.75	0.67
25	7.4	5.2	4.3	3.7	3.3	2.3	1.7	1.4	1.2	1.0
35	10.4	7.3	6.0	5.2	4.6	3.3	2.3	1.9	1.6	1.5
50	14.8	10.5	8.6	7.4	6.6	4.7	3.3	2.7	2.3	2.1
70	20.7	14.7	12.0	10.4	9.3	6.6	4.6	3.8	3.3	2.9
95	28.1	19.9	16.3	14.1	12.6	8.9	6.3	5.1	4.5	4.0
120	35.6	25.1	20.5	17.8	15.9	11.2	8.0	6.5	5.6	5.0
150	44.4	31.4	25.7	22.2	19.9	14.1	9.9	8.1	7.0	6.3
185	54.8	38.8	31.6	27.4	24.5	17.3	12.3	10.0	8.7	7.8
240	71.1	50.3	41.1	35.6	31.8	22.5	15.9	13.0	11.2	10.1
300	88.9	62.9	51.3	44.4	39.8	28.1	19.9	16.2	14.1	12.6
400	118.5	83.8	68.4	59.3	53.0	37.5	26.5	21.6	18.7	16.8
500	148.2	104.8	85.5	74.1	66.3	46.9	33.1	27.0	23.4	21.0
630	186.7	132.0	107.8	93.3	83.5	59.0	41.7	34.1	29.5	26.4
800	237.0	167.6	136.9	118.5	106.0	75.0	53.0	43.3	37.5	33.5
1000	296.3	209.5	171.1	148.2	132.5	93.7	66.3	54.1	46.9	41.9
1200	355.6	251.4	205.3	177.8	159.0	112.4	79.5	64.9	56.2	50.3
1600	474.1	335.2	273.7	237	212	149.9	106	86.6	75	67
2000	592.6	419	342.1	296.3	265	187.4	132.5	108.2	93.7	83.8
2500	741.2	524.1	427.9	370.6	331.5	234.4	165.7	135.3	117.2	104.8

Table 16

kA Short Circuit Current - Copper Screen

C.S.A. mm^2	Duration Sec.									
	0.1	0.2	0.3	0.4	0.5	1.0	2.0	3.0	4.0	5.0
16	7.5	5.3	4.3	3.7	3.3	2.4	1.7	1.4	1.2	1.1
25	11.7	8.3	6.8	5.9	5.2	3.7	2.6	2.1	1.9	1.7
35	16.4	11.6	9.5	8.3	7.3	5.2	3.7	3.0	2.6	2.3

Conductor temperature before short circuit = 90 °C
Maximum conductor temperature during short circuit = 250 °C
Maximum screen temperature before short circuit = 80 °C

Table 17

Voltage Drop for Single Core L.V Cables

C.S.A mm²	Copper Conductor Voltage Drop (mv / AMP / Meter)			
	PVC Insulation & PVC Sheathed		XLPE Insulation & PVC Sheathed	
	Flat	Trefoil	Flat	Trefoil
4	7.830	7.770	8.337	8.277
6	5.287	5.226	5.628	5.568
10	3.184	3.124	3.401	3.341
16	2.068	2.008	2.203	2.142
25	1.357	1.297	1.440	1.380
35	1.034	0.971	1.085	1.024
50	0.793	0.732	0.836	0.776
70	0.595	0.534	0.624	0.564
95	0.469	0.408	0.490	0.430
120	0.410	0.349	0.417	0.357
150	0.354	0.294	0.366	0.305
185	0.312	0.252	0.322	0.262
240	0.272	0.211	0.278	0.218
300	0.247	0.187	0.253	0.192
400	0.224	0.164	0.220	0.159
500	0.208	0.148	0.211	0.150
630	0.194	0.134	0.191	0.131

C.S.A mm²	Aluminium Conductor Voltage Drop (mv / AMP / Meter)			
	PVC Insulation & PVC Sheathed		XLPE Insulation & PVC Sheathed	
	Flat	Trefoil	Flat	Trefoil
16	3.343	3.283	3.561	3.500
25	2.161	2.100	2.296	2.235
35	1.602	1.542	1.700	1.640
50	1.222	1.162	1.291	1.230
70	0.890	0.830	0.937	0.877
95	0.686	0.623	0.719	0.655
120	0.569	0.509	0.594	0.534
150	0.490	0.430	0.511	0.451
185	0.420	0.360	0.437	0.377
240	0.353	0.293	0.367	0.307
300	0.312	0.252	0.322	0.262
400	0.274	0.214	0.278	0.218
500	0.245	0.185	0.260	0.199
630	0.222	0.162	0.223	0.163

The above data are based on:
- Max. operating temp: 90 °C for XLPE & 70 °C for PVC
- Power factor: 0.8 Rated frequency: 50 HZ
- Cables are touched in flat formation

Table 18

Voltage Drop for Multi core L.V Cables

C.S.A mm^2	Copper Conductor Voltage Drop (mv / AMP / Meter)	
	PVC Insulation & PVC Sheathed	XLPE Insulation & PVC Sheathed
1.5	20.345	20.341
2.5	12.397	13.197
4	7.741	7.731
6	5.199	5.191
10	3.101	3.094
16	1.988	1.982
25	1.280	1.276
35	0.959	0.955
50	0.720	0.715
70	0.524	0.520
95	0.398	0.394
120	0.341	0.337
150	0.285	0.282
185	0.244	0.241
240	0.204	0.201
300	0.180	0.177
400	0.157	0.155

C.S.A mm^2	Aluminium Conductor Voltage Drop (mv / AMP / Meter)	
	PVC Insulation & PVC Sheathed	XLPE Insulation & PVC Sheathed
16	3.263	3.479
25	2.084	2.218
35	1.527	1.624
50	1.150	1.217
70	0.819	0.865
95	0.613	0.645
120	0.500	0.524
150	0.421	0.442
185	0.352	0.369
240	0.286	0.299
300	0.245	0.255
400	0.208	0.211

The above data are based on:
Max. operating temp: 90 °C for XLPE & 70 °C for PVC
Power factor : 0.8 Rated frequency: 50 HZ
Cables are touched in flat formation

CONSTRUCTION OF LOW VOLTAGE CABLES

OPERATING VOLTAGE (UP TO 06 / 1 KV)

Cable Construction

1. Conductor

Copper or Aluminium conductors, solid, stranded or flexible;round or sectoral shape.

2. Insulation

An extruded layer of PVC or XLPE is applied over the conductor.
PVC insulated cables are suitable for maximum conductor operating temperature of 70°C or 85°C and 90°C for XLPE.

3. Assembly

In case of multicore cables'cores are assembled together using non hygroscopic filler (if needed) to fill space between cores, wrapped with suitable binder tape to form a round cable.

4. Bedding

In case of armoured cables an extruded layer of PVC is applied as bedding.

5. Armouring

a. Steel Tape: Double layers of steel tapes are applied helically.
b. Steel Wire: Galvanized steel wires are applied helically.

6. Sheath

An extruded layer of PVC is applied as an outer sheath, or according to the client special requirements.

Option

Lead sheath: Upon request a layer of lead is extruded over the bedding layer.

Armouring of Single Core Cable

1. Armouring by non-magnetic material either Aluminium Tape or Aluminium Wire armouring to reduce the magnetic losses.
2. If it is required for single core cable to be armoured by steel wire armouring, the magnetic circuit around the single core cable should be interrupted by inserting insulated copper wires between the steel wires as shown in the figure.

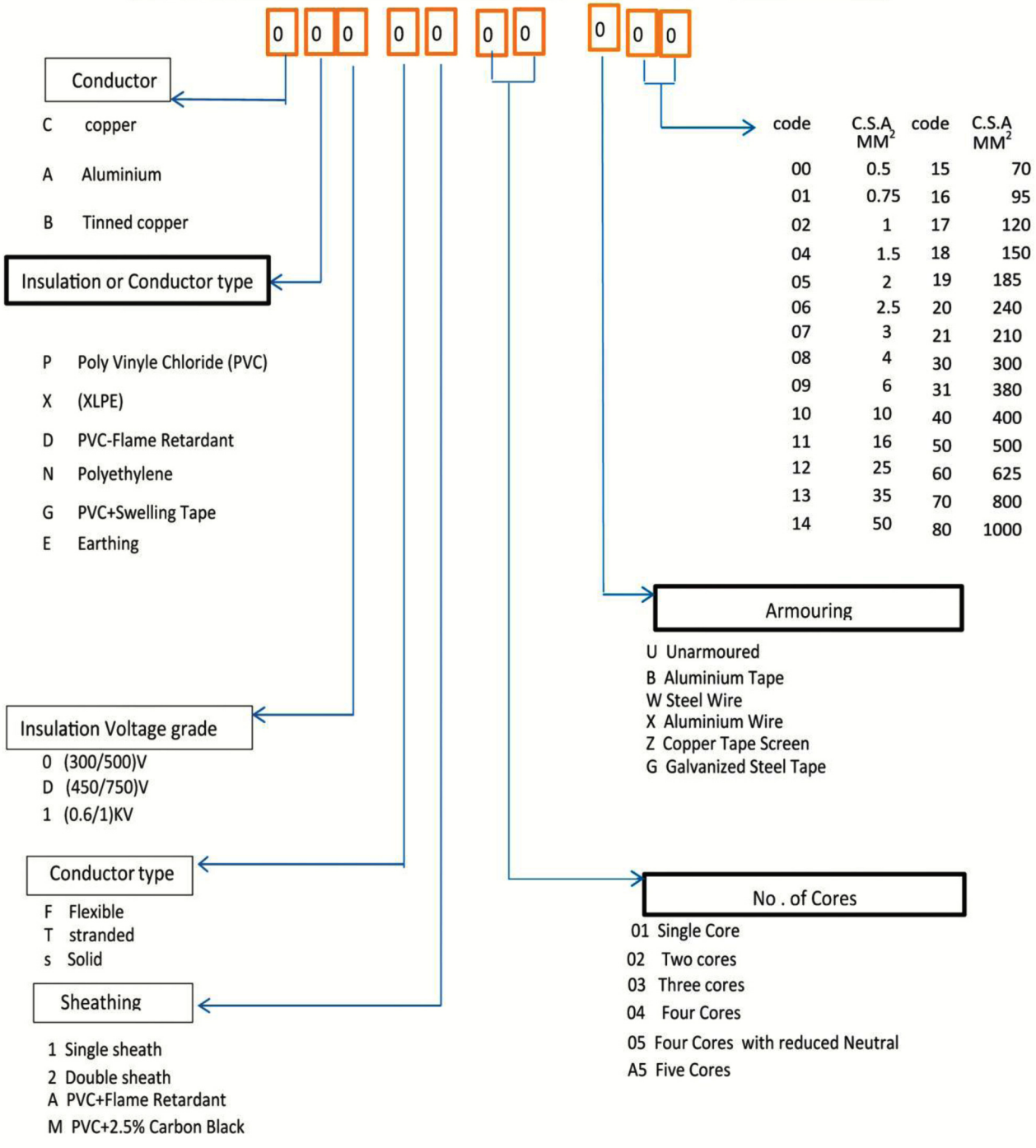


Armouring of Single Core Cable

You can request our cables through this code:

1-cable code as per the catalogue .

2-if your required cable /conductor is out of our catalodue range ,you can use the following codes to determine your cable.



Low Voltage Power Cables

Solid Cables



Solid Cables

Solid cables are often favored because they usually more affordable than the stranded variety due to their cheaper production costs. These cables are simple yet quite durable. As single, thick strands of cable,
They are quite resistant to threats and very easy to produce. Solid cables also have a much more compact diameter compared to stranded cables. Yet this reduced size does not reduce the current carrying ability of solid cables.
Add in the fact that solid cables are not as prone to failure as a result of corrosion and it is easy to see why they are held in high regard.

General characteristics

- Transmits electrical signals better over longer distances
- Lower attenuation (resistance
- More likely to break with repetitive bending
- Lower Cost
- Used for horizontal cabling in Ethernet networks

Low voltage cables

111-Single Core cable with Solid copper conductor
111.1
According to IEC-60228 (450/750)V

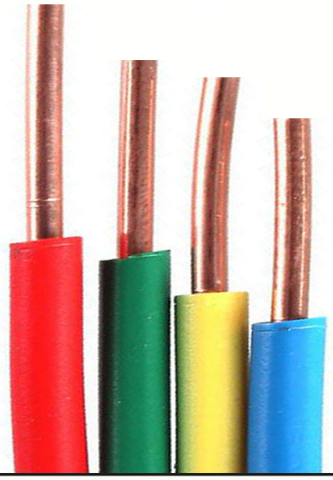
Description

- Solid Copper Conductor Insulated With Polyvinyl Chloride (CU/PVC).
- Cables are produced according to IEC 60228.

Application

- Transmission of power inside buildings for houses, Office and for all constructions.
  Transmission of power from transformers to buildings.
  Connections in electrical circuits in some lighting applications

Product - Code	Conductor: Solid copper class-1					Insulation : P.V.C				Current Rating in Air		Approx. Weight kg/km
	Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC resistance at 20°C (ohm/km)	Average Insulation Thickness (mm)	.Min Diameter after Insulation (mm)	.Max Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.km)	Free A	in Pipes A	
CPDF1 01 U 07	1.5	1	1.5	1.5	12.1	0.7	2.6	3.2	0.011	17	13	20
CPDF1 01 U 08	2	1	1.7	1.7	9.14	0.8	3	3.7	0.010	19	15	27
CPDF1 01 U 09	2.5	1	1.9	1.9	7.41	0.8	3.2	3.9	0.010	24	19	31
CPDF1 01 U 10	3	1	2.1	2.1	6.13	0.8	3.3	4.1	0.009	27	21	37
CPDF1 01 U 11	4	1	2.4	2.4	4.61	0.8	3.6	4.4	0.0085	32	23	47
CPDF1 01 U 12	6	1	2.9	2.9	3.08	0.8	4.1	5	0.0070	40	29	68
CPDF1 01 U 13	10	1	3.7	3.7	1.83	1	5.3	4.6	0.0070	57	41	117



Overhead Conductors

111.1-Bare Soft drawn copper conductors

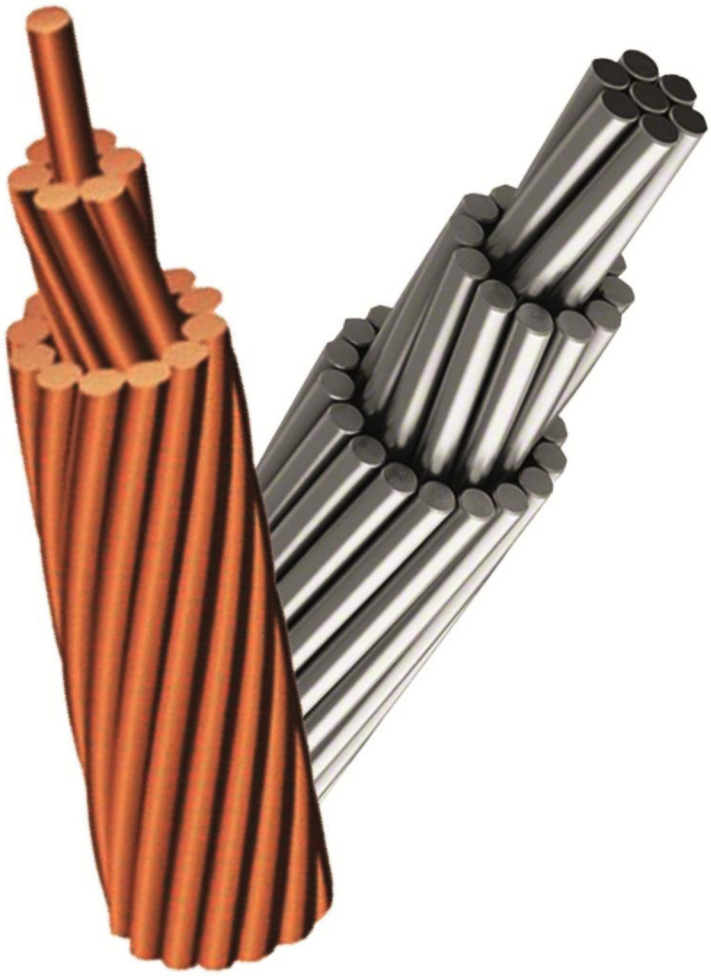
Accordig to IEC-60228

111.1-Bare Hard drawn copper conductors

Accordig to IEC-60228

111.1-Hard drawn Aluminium conductors

Accordig to IEC-61089

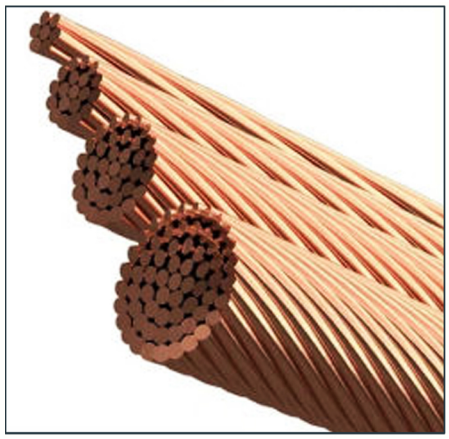


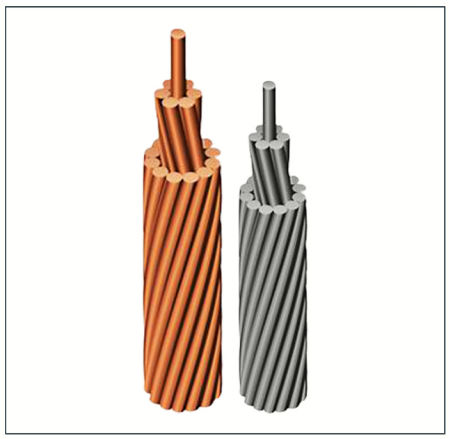
Overhead Conductors

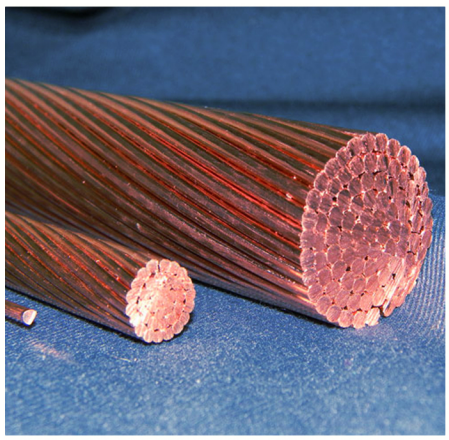
Overhead Transimission networks are an essential part of a countrys infrastructure and are generally massive un-dertaking implemented in the developing regions.

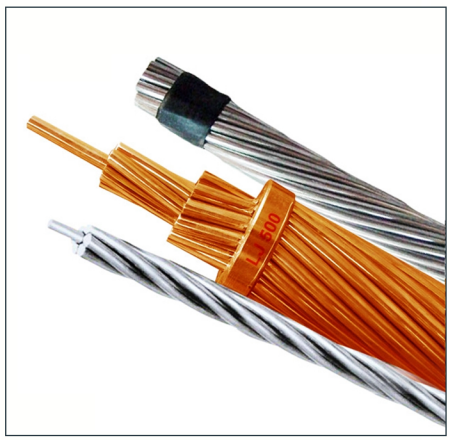
Overhead conductors are classified by the types of materials used for conductors, types of reinforcing cores used, and either it is bare or insulated.

This catalogue contains design, construction and technical data of new ega whole range of overhead conductors including bare soft or Hard drawm copper conductors. aluminium conductors.









Overhead Conductors

1111-Overhead conductors Bare Soft drawn copper conductor

111.1

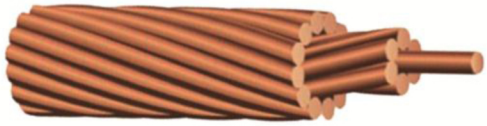
According to IEC-60228

Description

- Bare soft drawn copper conductors
  Conductors are produced according to IEC 60228 CLASS 2

Application

- Used for grounding electrical systems where high conductivity and flexibility are required.



Product - Code	Bare soft drawn					
	Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC resistance at 20°C (ohm/km)	Approx. Weight kg/km
CPDF1 01 U 04	10	7	1.43	3.7	1.8300	86.5
CPDF1 01 U 05	16	7	1.75	4.7	1.1500	137
CPDF1 01 U 06	25	7	2.18	5.8	0.7270	217
CPDF1 01 U 07	35	7	2.65	6.9	0.5240	298
CPDF1 01 U 08	50	19	1.68	8.2	0.3870	410
CPDF1 01 U 09	70	19	2.16	10.1	0.2680	595
CPDF1 01 U 10	95	19	2.65	11.3	0.1930	820
CPDF1 01 U 11	120	19	3.05	12.7	0.1530	1040
CPDF1 01 U 12	150	19	3.38	14.1	0.1240	1277
CPDF1 01 U 13	185	37	2.63	15.8	0.0991	1610
CPDF1 01 U 14	240	34	3.23	18.2	0.0754	2120
CPDF1 01 U 15	300	61	2.64	20.6	0.0601	2630
CPDF1 01 U 16	400	61	2.98	23.2	0.0470	3390
CPDF1 01 U 17	500	61	3.33	26.6	0.0366	4420

Overhead Conductors

1111-Overhead conductors Bare Hard drawn copper conductor

111.2

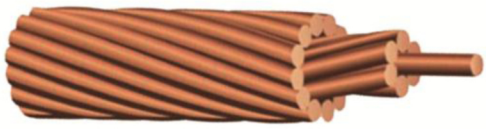
According to IEC-60228

Description

- Bare hard drawn copper conductors.
  Conductors are produced according to IEC 60228 CLASS 2

Application

- Used in overhead electrical distribution networks.



Product - Code	Bare Hard drawn					
	Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC resistance at 20°C (ohm/km)	Approx. Weight kg/km
CPDF1 01 U 04	10	7	1.43	3.7	1.8290	90
CPDF1 01 U 05	16	7	1.75	4.7	1.1540	143
CPDF1 01 U 06	25	7	2.18	5.8	0.7563	218
CPDF1 01 U 07	35	7	2.65	6.9	0.5337	310
CPDF1 01 U 08	50	19	1.68	8.2	0.3819	437
CPDF1 01 U 09	70	19	2.16	10.1	0.2806	596
CPDF1 01 U 10	95	19	2.65	11.3	0.1980	845
CPDF1 01 U 11	120	19	3.05	12.7	0.1578	1060
CPDF1 01 U 12	150	19	3.38	14.1	0.1264	1337
CPDF1 01 U 13	185	37	2.63	15.8	0.1024	1649
CPDF1 01 U 14	240	34	3.23	18.2	0.07528	2209
CPDF1 01 U 15	300	61	2.64	20.6	0.06097	2725
CPDF1 01 U 16	400	61	2.98	23.2	0.0456	3640
CPDF1 01 U 17	500	61	3.33	26.6	0.0365	4545

Overhead Conductors

1111-Overhead conductors Hard drawn Aluminium conductor

111.3

According to IEC-60228

Description

- Hard drawn Aluminium wires, stranded in successive layers, in opposite direction to form the Aluminium stranded conductor. Conductors are produced according to IEC 61089



Application

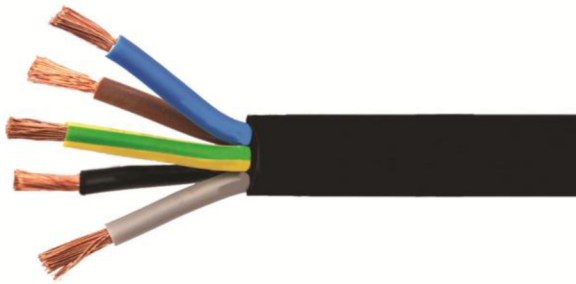
- used for aerial distribution lines having relatively short spans, aerial feeders and bus bars of substations.

Product - Code	Hard drawn Aluminium					
	Conductor Nominal C.S.A (mm)^2	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC resistance at 20°C (ohm/km)	Approx. Weight kg/km
CPDF1 01 U 04	16	7	1.7	5.10	1.7986	43.4
CPDF1 01 U 05	25	7	2.1	6.30	1.1787	66.3
CPDF1 01 U 06	35	7	2.5	7.50	0.8317	93.9
CPDF1 01 U 07	50	7	1.8	9.00	0.5944	132.9
CPDF1 01 U 08	70	19	2.1	10.5	0.4367	180.9
CPDF1 01 U 09	95	19	2.5	12.5	0.3081	256.3
CPDF1 01 U 10	120	19	2.8	14.0	0.2456	321.5
CPDF1 01 U 11	150	37	2.25	15.8	0.1960	405.7
CPDF1 01 U 12	185	37	2.5	17.5	0.1588	500.9
CPDF1 01 U 13	240	61	2.25	20.3	0.1193	671.1
CPDF1 01 U 14	300	61	2.5	22.5	0.0966	828.5
CPDF1 01 U 15	400	61	2.89	26.0	0.0723	1107.1
CPDF1 01 U 16	500	61	3.23	29.1	0.0579	1382.9

Low Voltage Power Cables



Flexible Cables

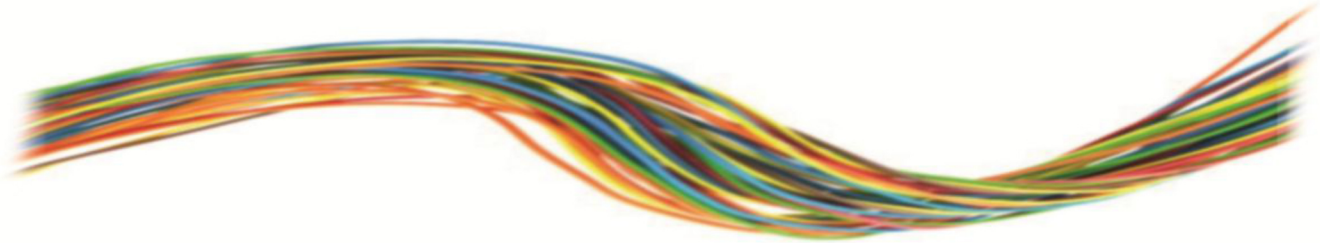


1-Single Core Flexible copper conductor

1.1Accordig to IEC-60227 (300/500)V..... CU/PVC
1.2Accordig to IEC-60227 (450/750)V..... CU/PVC
1.3Accordig to IEC-60502 (600/1000)V..... CU/PVC/PVC
1.4Accordig to IEC-60502 (600/1000)V..... CU/PVC/PVC

2-Multi Core Flexible copper conductor

2.1Accordig to IEC-60227 (300/500)-Two Core..... CU/PVC/PVC
2.2Accordig to IEC-60227 (300/500)V-Three Core..... CU/PVC/PVC
2.3Accordig to IEC-60227 (300/500)V-Four Core..... CU/PVC/PVC
2.4Accordig to IEC-60227(300/500)V-Five Core..... CU/PVC/PVC
2.5Accordig to IEC-60502(600/1000)V-Two Core..... CU/PVC/PVC
2.55Accordig to IEC-60502(600/1000)V-Two Core..... CU/PVC/PVC
2.6Accordig to IEC-60502(600/1000)V-Three Core..... CU/PVC/PVC
2.66Accordig to IEC-60502(600/1000)V-Three Core..... CU/PVC/PVC
2.7Accordig to IEC-60502(600/1000)V-Four Core..... CU/PVC/PVC
2.77Accordig to IEC-60502(600/1000)V-Four Core..... CU/PVC/PVC
2.8Accordig to IEC-60502(600/1000)V-Four Core/0.5N..... CU/PVC/PVC
2.88Accordig to IEC-60502(600/1000)V-Four Core/0.5N..... CU/PVC/PVC



Flexible Cables

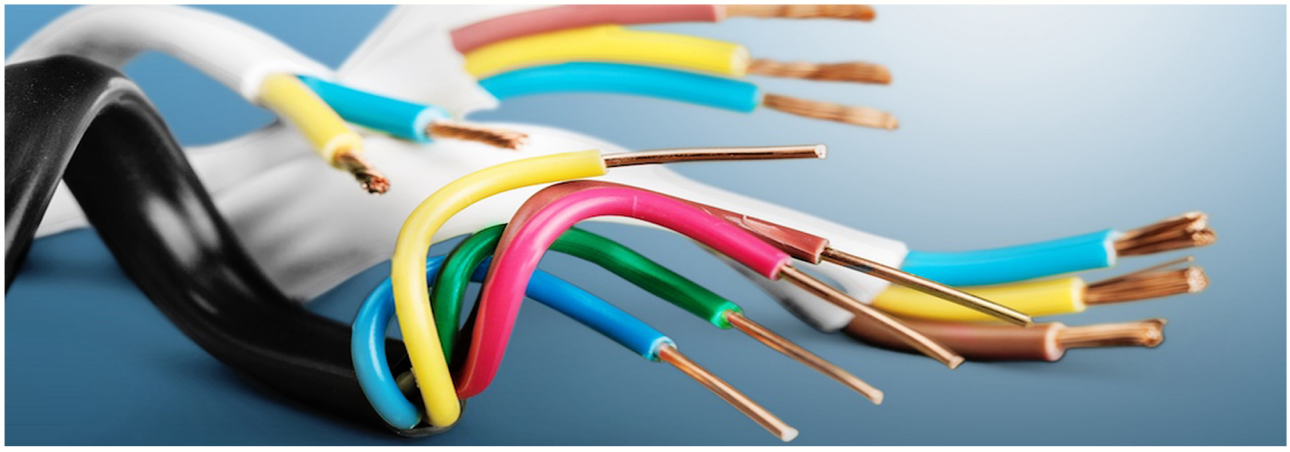
Flexible cables, are transferred to the installation site On wooden rollers or drums. It is used in applications that need a lot of movement such as cutting machines , drill ... etc.

Flexible cables consist of a set of copper wires with small diameters to achieve the best flexibility of the cable during use.

The insulation material used in these cables must withstand tensile stresses and resistance to atmospheric factors.



This type of cable is manufactured and tested carefully as it is used by humans in most applications of life as used in the delivery of electricity in most domestic appliances.



Low Voltage Cables

1 - Single Core Cable With Flexible Copper Conductor

1.1

According to IEC-60227 (300 / 500) V



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride (CU/PVC).

- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Conductor: Flexible copper class-5					Insulation : P.V.C				
	Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C Ohm/km	Current rating in air Free	Average Insulation Thickness (mm)	Max. Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.Km)	Approx. Weight kg/km
CP0F1 01 U 00	0.5	16	0.20	0.9	39.0	2	0.6	2.6	0.013	8
CP0F1 01 U 01	0.75	24	0.20	1.1	26.0	10	0.6	2.8	0.011	12.2
CP0F1 01 U 02	1	32	0.20	1.3	19.5	13	0.6	3.0	0.010	16.1

Low Voltage Cables

1 - Single Core Cable With Flexible Copper Conductor

1.2

According to IEC-60227 (450 / 750) V



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride (CU/PVC).
- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Conductor: Flexible copper class-5					Insulation : P.V.C				
	Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C Ohm/km	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.Km)	Approx. Weight kg/km
CPDF1 01 U 04	1.5	30	0.25	1.60	13.3	17	0.7	2.8:3.4	0.010	21
CPDF1 01 U 05	2	40	0.25	1.85	9.89	20	0.8	3.1:3.7	0.0095	25.9
CPDF1 01 U 06	2.5	50	0.25	2.01	7.98	24	0.8	3.4:4.1	0.009	34
CPDF1 01 U 07	3	42	0.30	2.45	6.61	27	0.8	3.6:4.4	0.008	40
CPDF1 01 U 08	4	56	0.30	2.65	4.95	32	0.8	3.9:4.8	0.007	50
CPDF1 01 U 09	6	84	0.30	3.30	3.30	40	0.8	4.4:5.3	0.006	71
CPDF1 01 U 10	10	140	0.30	4.20	1.91	57	1.0	5.7:6.8	0.0056	120
CPDF1 01 U 11	16	224	0.30	5.20	1.21	76	1.0	6.7:8.1	0.0046	179
CPDF1 01 U 12	25	350	0.30	7.50	0.78	103	1.2	8.4:10.2	0.0044	276
CPDF1 01 U 13	35	490	0.30	9.25	0.554	128	1.2	9.7:11.7	0.0038	375
CPDF1 01 U 14	50	700	0.30	10.50	0.386	156	1.4	11.5:13.9	0.0037	542
CPDF1 01 U 15	70	980	0.30	12.6	0.272	200	1.4	13.2:16	0.0032	733
CPDF1 01 U 16	95	1330	0.30	14.7	0.206	251	1.6	15.1:18.2	0.0032	957
CPDF1 01 U 17	120	1680	0.30	16.30	0.161	293	1.6	16.7:20.2	0.0029	1243
CPDF1 01 U 18	150	2100	0.30	19.0	0.129	335	1.8	18.6:22.5	0.0029	1548
CPDF1 01 U 19	185	2590	0.30	21.0	0.106	390	2	20.6:24.9	0.0029	1895
CPDF1 01 U 20	240	3360	0.30	24.0	0.0801	471	2.2	23.5:28.4	0.0028	2400
CPDF1 01 U 30	300	4200	0.30	27.0	0.0641	540	2.4	26.5:31.6	0.0028	3260

Low Voltage Cables

1 - Single Core Cable With Flexible Copper Conductor

1.3

According to IEC-60502 (600 / 1000) V



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC /PVC).
- Cables are produced according to IEC 60502.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Conductor: Flexible copper class-5					Insulation : P.V.C			
	Conductor Nominal C.S.A (mm)^2	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C Ohm/km	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.Km)
CP1F1 01 U 04	1.5	30	0.25	1.60	13.3	0.8	3.2	1.4	6.0
CP1F1 01 U 06	2.5	50	0.25	2.01	7.98	0.8	3.6	1.4	6.4
CP1F1 01 U 08	4	56	0.30	2.65	4.95	1.0	4.65	1.4	7.45
CP1F1 01 U 09	6	84	0.30	3.30	3.30	1.0	5.30	1.4	8.10
CP1F1 01 U 10	10	140	0.30	4.20	1.91	1.0	6.20	1.4	9.00
CP1F1 01 U 11	16	224	0.30	5.20	1.21	1.0	7.20	1.4	10.0
CP1F1 01 U 12	25	350	0.30	7.50	0.78	1.2	9.9	1.4	12.7
CP1F1 01 U 13	35	490	0.30	9.25	0.554	1.2	11.65	1.4	14.45
CP1F1 01 U 14	50	700	0.30	10.50	0.386	1.4	13.30	1.5	16.30
CP1F1 01 U 15	70	980	0.30	12.6	0.272	1.4	15.40	1.5	18.40
CP1F1 01 U 16	95	1330	0.30	14.7	0.206	1.6	17.90	1.6	21.10
CP1F1 01 U 17	120	1680	0.30	16.30	0.161	1.6	19.50	1.7	22.90
CP1F1 01 U 18	150	2100	0.30	19.0	0.129	1.8	22.60	1.8	26.20
CP1F1 01 U 19	185	2590	0.30	21.0	0.106	2.0	25.00	1.9	28.80
CP1F1 01 U 20	240	3360	0.30	24.0	0.0801	2.2	28.40	2.0	32.40
CP1F1 01 U 30	300	4200	0.30	27.0	0.0641	2.4	31.80	2.1	36.00

Low Voltage Cables

1 - Single Core Cable With Flexible Copper Conductor

1.4

According to IEC-60502 (600 / 1000) V



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/X.L.P.E. /PVC).
- Cables are produced according to IEC 60502.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Conductor: Flexible copper class-5					Insulation : P.V.C			
	Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C Ohm/km	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.Km)
CP1F1 01 U 04	1.5	30	0.25	1.60	13.3	0.7	3.0	1.4	5.80
CP1F1 01 U 06	2.5	50	0.25	2.01	7.98	0.7	3.4	1.4	6.20
CP1F1 01 U 08	4	56	0.30	2.65	4.95	0.7	4.05	1.4	6.85
CP1F1 01 U 09	6	84	0.30	3.30	3.30	0.7	4.70	1.4	7.50
CP1F1 01 U 10	10	140	0.30	4.20	1.91	0.7	5.60	1.4	8.40
CP1F1 01 U 11	16	224	0.30	5.20	1.21	0.7	6.60	1.4	9.40
CP1F1 01 U 12	25	350	0.30	7.50	0.78	0.9	9.30	1.4	12.10
CP1F1 01 U 13	35	490	0.30	9.25	0.554	0.9	11.05	1.4	13.85
CP1F1 01 U 14	50	700	0.30	10.50	0.386	1.0	12.50	1.4	15.30
CP1F1 01 U 15	70	980	0.30	12.6	0.272	1.1	14.80	1.5	17.80
CP1F1 01 U 16	95	1330	0.30	14.7	0.206	1.1	16.90	1.6	20.10
CP1F1 01 U 17	120	1680	0.30	16.30	0.161	1.2	18.70	1.7	22.10
CP1F1 01 U 18	150	2100	0.30	19.0	0.129	1.4	21.80	1.8	25.40
CP1F1 01 U 19	185	2590	0.30	21.0	0.106	1.6	24.20	1.8	27.80
CP1F1 01 U 20	240	3360	0.30	24.0	0.0801	1.7	27.40	2.0	31.40
CP1F1 01 U 30	300	4200	0.30	27.0	0.0641	1.8	30.60	2.1	34.80

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.1

According to IEC-60227 (300 / 500) V - Two Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor: Flexible copper class-5						Insulation : P.V.C		Over sheathed : P.V.C		
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness `(mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70°c (M ohm.Km)
CP0F1 02 U 00	(*) 2X0.5	0.5	16	0.20	0.9	39	8	0.5	2.0:2.4	0.6	4.6:5.9	0.012
CP0F1 02 U 01	2X0.75	0.75	24	0.20	1.1	26.0	11	0.6	2.2:2.6	0.8	5.7:7.2	0.011
CP0F1 02 U 02	2X1	1.0	32	0.20	1.3	19.5	13	0.6	2.5:2.9	0.8	5.9:7.5	0.010
CP0F1 02 U 04	2X1.5	1.5	30	0.25	1.60	13.3	16	0.7	2.8:3.4	0.8	6.8:8.6	0.010
CP0F1 02 U 05	2X2	2.0	40	0.25	1.85	9.89	19	0.8	3.1:3.7	1.0	7.5:9.5	0.0095
CP0F1 02 U 06	2X2.5	2.5	50	0.25	2.01	7.98	22	0.8	3.4:4.1	1.0	8.4:10.6	0.009
CP0F1 02 U 07	(#) 2X3	3	42	0.30	2.45	6.61	27	0.8	3.6 : 4.4	1.2	9.6 : 12.6	0.008
CP0F1 02 U 08	(#) 2X4	4	56	0.30	2.65	4.95	32	0.8	3.9:4.8	1.2	10.0 : 13.0	0.007
CP0F1 02 U 09	(#) 2X6	6	84	0.30	3.30	3.30	40	0.8	4.4:5.3	1.2	11.0 : 14.0	0.006
CP0F1 02 U 10	(#) 2X10	10	140	0.30	4.20	1.91	57	1.0	5.7:6.8	1.4	13.5 : 17.5	0.0056
CP0F1 02 U 11	(#) 2X16	16	224	0.30	5.20	1.21	76	1.0	6.7:8.1	1.4	15.5 : 20.0	0.0046
CP0F1 02 U 12	(#) 2X25	25	350	0.30	7.50	0.78	103	1.2	8.4:10.2	1.4	18.5 : 24.0	0.0044
CP0F1 02 U 13	(#) 2X35	35	490	0.30	9.25	0.554	128	1.2	9.7:11.7	1.6	21.0 : 27.5	0.0038
CP0F1 02 U 00 Flat	(*) 2X0.5 Flat	0.5	16	0.20	0.9	39	8	0.8	5.0X2.5:6.0X3.0	.....	.....	0.016
CP0F1 02 U 01 Flat	(*) 2X0.75 Flat	0.75	24	0.20	1.1	26.0	11	0.8	5.4X2.7:6.4X3.2	.....	.....	0.014
CP0F1 02 U 02 Flat	(*) 2X1 Flat	1.0	32	0.20	1.3	19.5	13	0.8	5.8X2.9:6.8X3.4	.....	.....	0.012

(*) : 300/300 V Cable (#) : Special Cable

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.2

According to IEC-60227 (300 / 500) V - Three Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor: Flexible copper class-5						Insulation : P.V.C		Over sheathed : P.V.C		
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70°c (M ohm.Km)
CP0F1 03 U 00	(*) 3X0.5	0.5	16	0.20	0.9	39	8	0.5	2.0:2.4	0.6	5.0:6.3	0.012
CP0F1 03 U 01	3X0.75	0.75	24	0.20	1.1	26.0	11	0.6	2.2:2.6	0.8	6.0:6.7	0.011
CP0F1 03 U 02	3X1	1.0	32	0.20	1.3	19.5	13	0.6	2.5:2.9	0.8	6.3:8.0	0.010
CP0F1 03 U 04	3X1.5	1.5	30	0.25	1.60	13.3	16	0.7	2.8:3.4	0.9	7.4:9.4	0.010
CP0F1 03 U 05	3X2	2.0	40	0.25	1.85	9.89	19	0.8	3.1:3.7	1.0	8.4:10.4	0.0095
CP0F1 03 U 06	3X2.5	2.5	50	0.25	2.01	7.98	22	0.8	3.4:4.1	1.1	9.2:11.4	0.009
CP0F1 03 U 07	(#) 3X3	3	42	0.30	2.45	6.61	27	0.8	3.6 : 4.4	1.2	10.1 : 13.1	0.008
CP0F1 03 U 08	(#) 3X4	4	56	0.30	2.65	4.95	32	0.8	3.9:4.8	1.2	10.5 : 13.5	0.007
CP0F1 03 U 09	(#) 3X6	6	84	0.30	3.30	3.30	40	0.8	4.4:5.3	1.4	12.0 : 15.5	0.006
CP0F1 03 U 10	(#) 3X10	10	140	0.30	4.20	1.91	57	1.0	5.7:6.8	1.4	14.5 : 19.0	0.0056
CP0F1 03 U 11	(#) 3X16	16	224	0.30	5.20	1.21	76	1.0	6.7:8.1	1.4	16.5 : 21.5	0.0046
CP0F1 03 U 12	(#) 3X25	25	350	0.30	7.50	0.78	103	1.2	8.4:10.2	1.6	20.5 : 26.0	0.0044
CP0F1 03 U 13	(#) 3X35	35	490	0.30	9.25	0.554	128	1.2	9.7:11.7	1.6	22.0 : 29.0	0.0038

(*) : 300/300 V Cable (#) : Special Cable

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.3

According to IEC-60227 (300 / 500) V - Four Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor: Flexible copper class-5						Insulation : P.V.C		Over sheathed : P.V.C		
		Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70°c (M ohm.Km)
CP0F1 04 U 00	(**) 4X0.5	0.5	16	0.20	0.9	39	8	0.5	2.0:2.4	0.6	6.0:7.5	0.012
CP0F1 04 U 01	4X0.75	0.75	24	0.20	1.1	26.0	10	0.6	2.2:2.6	0.8	6.6:8.3	0.011
CP0F1 04 U 02	4X1	1.0	32	0.20	1.3	19.5	12	0.6	2.5:2.9	0.9	7.1:9.0	0.010
CP0F1 04 U 04	4X1.5	1.5	30	0.25	1.60	13.3	15	0.7	2.8:3.4	1.0	8.4:10.5	0.010
CP0F1 04 U 05	4X2	2.0	40	0.25	1.85	9.89	17	0.8	3.1:3.7	1.0	9.3:11.7	0.0095
CP0F1 04 U 06	4X2.5	2.5	50	0.25	2.01	7.98	20	0.8	3.4:4.1	1.1	10.1:12.5	0.009
CP0F1 04 U 07	(#) 4X3	3	42	0.30	2.45	6.61	27	0.8	3.6 : 4.4	1.2	11.5 : 13.5	0.008
CP0F1 04 U 08	(#) 4X4	4	56	0.30	2.65	4.95	32	0.8	3.9:4.8	1.4	12.0 : 15.0	0.007
CP0F1 04 U 09	(#) 4X6	6	84	0.30	3.30	3.30	40	0.8	4.4:5.3	1.4	13.0 : 17.0	0.006
CP0F1 04 U 10	(#) 4X10	10	140	0.30	4.20	1.91	57	1.0	5.7:6.8	1.4	16.0 : 20.5	0.0056
CP0F1 04 U 11	(#) 4X16	16	224	0.30	5.20	1.21	76	1.0	6.7:8.1	1.4	18.0 : 23.5	0.0046
CP0F1 04 U 12	(#) 4X25	25	350	0.30	7.50	0.78	103	1.2	8.4:10.2	1.6	22.5 : 28.5	0.0044
CP0F1 04 U 13	(#) 4X35	35	490	0.30	9.25	0.554	128	1.2	9.7:11.7	1.6	24.5 : 32.0	0.0038
CP0F1 04 U 14	(#) 4X50	50	700	0.30	10.5	0.386	156	1.4	11.5:13.9	1.9	29.0 : 37.0	0.0037
CP0F1 04 U 15	(#) 4X70	70	980	0.30	12.6	0.272	200	1.4	13.2:16	2.0	33.0 : 42.0	0.0032
CP0F1 04 U 16	(#) 4X95	95	1330	0.30	14.7	0.206	251	1.6	15.1:18.2	2.2	37.0 : 47.0	0.0032

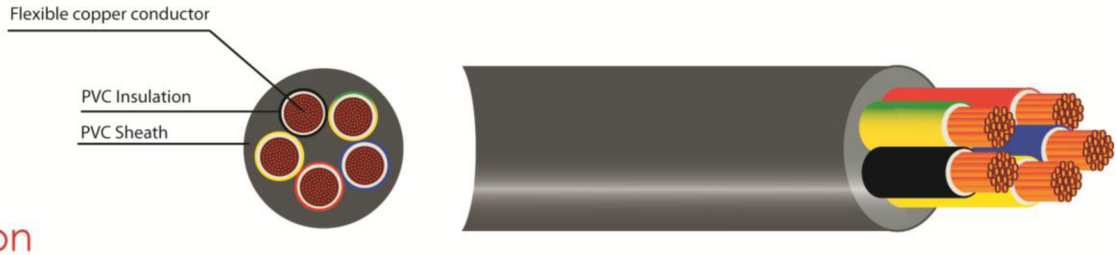
(*) : 300/300 V Cable (#) : Special Cable

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.4

According to IEC-60227 (300 / 500) V - Five Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60227.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor: Flexible copper class-5						Insulation : P.V.C		Over sheathed : P.V.C		
		Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air: Free	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70°c (M ohm.Km)
CP0F1 A5 U 00	(**) 5X0.5	0.5	16	0.20	0.9	39	8	0.5	2.0:2.4	0.7	6.5:8.0	0.012
CP0F1 A5 U 01	5X0.75	0.75	24	0.20	1.1	26.0	10	0.6	2.2:2.6	0.9	7.4:9.3	0.011
CP0F1 A5 U 02	5X1	1.0	32	0.20	1.3	19.5	12	0.6	2.5:2.9	0.9	7.8:9.8	0.010
CP0F1 A5 U 04	5X1.5	1.5	30	0.25	1.60	13.3	15	0.7	2.8:3.4	1.1	9.3:11.6	0.010
CP0F1 A5 U 05	5X2	2.0	40	0.25	1.85	9.89	17	0.8	3.1:3.7	1.2	10.3:12.8	0.0095
CP0F1 A5 U 06	5X2.5	2.5	50	0.25	2.01	7.98	20	0.8	3.4:4.1	1.2	11.2:13.9	0.009
CP0F1 A5 U 07	(#) 5X3	3	42	0.30	2.45	6.61	27	0.8	3.6 : 4.4	1.2	12.5 : 15.5	0.008
CP0F1 A5 U 08	(#) 5X4	4	56	0.30	2.65	4.95	32	0.8	3.9:4.8	1.4	13.0 : 17.0	0.007
CP0F1 A5 U 09	(#) 5X6	6	84	0.30	3.30	3.30	40	0.8	4.4:5.3	1.4	14.5 : 18.5	0.006
CP0F1 A5 U 10	(#) 5X10	10	140	0.30	4.20	1.91	57	1.0	5.7:6.8	1.4	17.5 : 22.0	0.0056
CP0F1 A5 U 11	(#) 5X16	16	224	0.30	5.20	1.21	76	1.0	6.7:8.1	1.6	20.5 : 26	0.0046
CP0F1 A5 U 12	(#) 5X25	25	350	0.30	7.50	0.78	103	1.2	8.4:10.2	1.6	24.5 : 31.5	0.0044
CP0F1 A5 U 13	(#) 5X35	35	490	0.30	9.25	0.554	128	1.2	9.7:11.7	1.6	27.0 : 35.0	0.0038

(*) : 300/300 V Cable (#) : Special Cable

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.5

According to IEC-60502 (600 / 1000) V - Two Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60502.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CP1F1 02 U 04	2X1.5	1.5	30	0.25	1.60	13.3	10.2	20
CP1F1 02 U 06	2X2.5	2.5	50	0.25	2.01	7.98	11.1	28
CP1F1 02 U 08	2X4	4.0	56	0.30	2.65	4.95	13.1	39
CP1F1 02 U 09	2X6	6.0	84	0.30	3.30	3.30	14.4	50
CP1F1 02 U 10	2X10	10.0	140	0.30	4.20	1.91	16.2	66
CP1F1 02 U 11	2X16	16.0	224	0.30	5.20	1.21	18.2	88
CP1F1 02 U 12	2X25	25.0	350	0.30	7.50	0.78	23.6	116
CP1F1 02 U 13	2X35	35.0	490	0.30	9.25	0.554	26.1	143

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.55

According to IEC-60502 (600 / 1000) V - Two Core Cables



Description

- Flexible Copper Conductor Insulated With Polyvinyl Chloride PVC And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60502.

Application

- For indoor fixed i nstallations in dry locations, where particular flexibility is required. For electrical panels connection or for electrical apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CX1F1 02 U 04	2X1.5	1.5	30	0.25	1.60	13.3	9.8	20
CX1F1 02 U 06	2X2.5	2.5	50	0.25	2.01	7.98	10.7	28
CX1F1 02 U 08	2X4	4.0	56	0.30	2.65	4.95	11.9	39
CX1F1 02 U 09	2X6	6.0	84	0.30	3.30	3.30	13.2	50
CX1F1 02 U 10	2X10	10.0	140	0.30	4.20	1.91	15.0	66
CX1F1 02 U 11	2X16	16.0	224	0.30	5.20	1.21	17.0	88
CX1F1 02 U 12	2X25	25.0	350	0.30	7.50	0.78	22.4	116
CX1F1 02 U 13	2X35	35.0	490	0.30	9.25	0.554	24.9	143

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.6

According to IEC-60502 (600 / 1000) V - Three Core Cables



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/PVC/PVC).

Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CP1F1 03 U 04	3X1.5	1.5	30	0.25	1.60	13.3	10.7	18
CP1F1 03 U 06	3X2.5	2.5	50	0.25	2.01	7.98	11.7	22
CP1F1 03 U 08	3X4	4.0	56	0.30	2.65	4.95	13.8	31
CP1F1 03 U 09	3X6	6.0	84	0.30	3.30	3.30	15.2	39
CP1F1 03 U 10	3X10	10.0	140	0.30	4.20	1.91	17.2	53
CP1F1 03 U 11	3X16	16.0	224	0.30	5.20	1.21	19.3	72
CP1F1 03 U 12	3X25	25.0	350	0.30	7.50	0.78	25.2	94
CP1F1 03 U 13	3X35	35.0	490	0.30	9.25	0.554	28	110

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.66

According to IEC-60502 (600 / 1000) V - Three Core Cables



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/XLPE/PVC).

Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

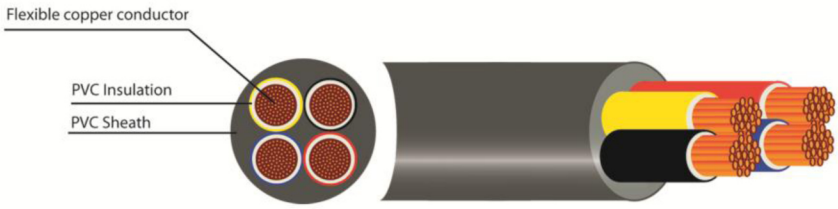
Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CX1F1 03 U 04	3X1.5	1.5	30	0.25	1.60	13.3	10.3	18
CX1F1 03 U 06	3X2.5	2.5	50	0.25	2.01	7.98	11.3	22
CX1F1 03 U 08	3X4	4.0	56	0.30	2.65	4.95	12.5	31
CX1F1 03 U 09	3X6	6.0	84	0.30	3.30	3.30	14.0	39
CX1F1 03 U 10	3X10	10.0	140	0.30	4.20	1.91	15.9	53
CX1F1 03 U 11	3X16	16.0	224	0.30	5.20	1.21	18.0	72
CX1F1 03 U 12	3X25	25.0	350	0.30	7.50	0.78	23.9	94
CX1F1 03 U 13	3X35	35.0	490	0.30	9.25	0.554	26.6	110

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.7

According to IEC-60502 (600 / 1000) V - Four Core Cables



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/PVC/PVC).

Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

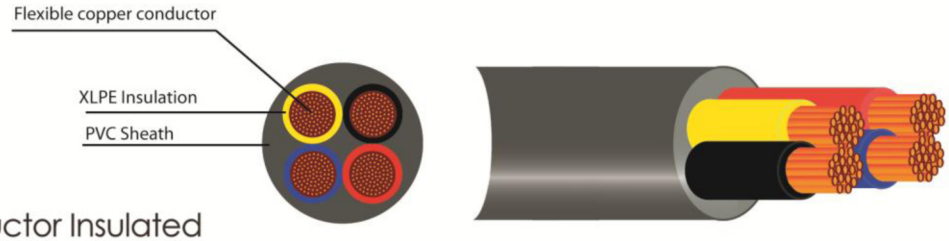
Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CP1F1 04 U 04	4X1.5	1.5	30	0.25	1.60	13.3	11.6	18
CP1F1 04 U 06	4X2.5	2.5	50	0.25	2.01	7.98	12.7	22
CP1F1 04 U 08	4X4	4.0	56	0.30	2.65	4.95	15.1	31
CP1F1 04 U 09	4X6	6.0	84	0.30	3.30	3.30	16.6	39
CP1F1 04 U 10	4X10	10.0	140	0.30	4.20	1.91	18.8	53
CP1F1 04 U 11	4X16	16.0	224	0.30	5.20	1.21	21.2	72
CP1F1 04 U 12	4X25	25.0	350	0.30	7.50	0.78	28.0	94
CP1F1 04 U 13	4X35	35.0	490	0.30	9.25	0.554	31.2	110
CP1F1 04 U 14	4X50	50.0	700	0.30	10.50	0.386	36.5	138
CP1F1 04 U 15	4X70	70.0	980	0.30	12.6	0.272	42.0	171
CP1F1 04 U 16	4X95	95.0	1330	0.30	14.7	0.206	48.5	209
CP1F1 04 U 17	4X120	120.0	1680	0.30	16.30	0.161	52.0	242
CP1F1 04 U 18	4X150	150.0	2100	0.30	19.0	0.129	60.5	275
CP1F1 04 U 19	4X185	185.0	2590	0.30	21.0	0.106	66.0	314
CP1F1 04 U 20	4X240	240.0	3360	0.30	24.0	0.0801	75.5	374

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.77

According to IEC-60502 (600 / 1000) V - Four Core Cables



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/XLPE/PVC).

Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

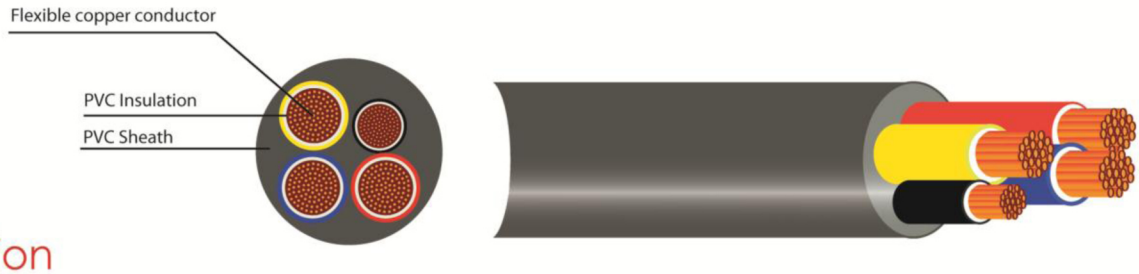
Product - Code	Cable Size	Conductor : Flexible Copper(class-5)					Approx. overall diameter (mm)	Current Rating (A)
		Conductor Nominal C.S.A (mm)²	Number of strands	Diameter of each strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		In Free air
CX1F1 04 U 04	4X1.5	1.5	30	0.25	1.60	13.3	11.1	18
CX1F1 04 U 06	4X2.5	2.5	50	0.25	2.01	7.98	12.2	22
CX1F1 04 U 08	4X4	4.0	56	0.30	2.65	4.95	13.6	31
CX1F1 04 U 09	4X6	6.0	84	0.30	3.30	3.30	15.2	39
CX1F1 04 U 10	4X10	10.0	140	0.30	4.20	1.91	17.4	53
CX1F1 04 U 11	4X16	16.0	224	0.30	5.20	1.21	19.8	72
CX1F1 04 U 12	4X25	25.0	350	0.30	7.50	0.78	26.3	94
CX1F1 04 U 13	4X35	35.0	490	0.30	9.25	0.554	29.5	110
CX1F1 04 U 14	4X50	50.0	700	0.30	10.50	0.386	34.5	138
CX1F1 04 U 15	4X70	70.0	980	0.30	12.6	0.272	40.5	171
CX1F1 04 U 16	4X95	95.0	1330	0.30	14.7	0.206	45.9	209
CX1F1 04 U 17	X120	120.0	1680	0.30	16.30	0.161	50.6	242
CX1F1 04 U 18	X150	150.0	2100	0.30	19.0	0.129	58.6	275
CX1F1 04 U 19	X185	185.0	2590	0.30	21.0	0.106	64.8	314
CX1F1 04 U 20	X240	240.0	3360	0.30	24.0	0.0801	73.1	374

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.8

According to IEC-60502 (600 / 1000) V - Four Core Cables With Reduced Neutral



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/PVC/PVC).

Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

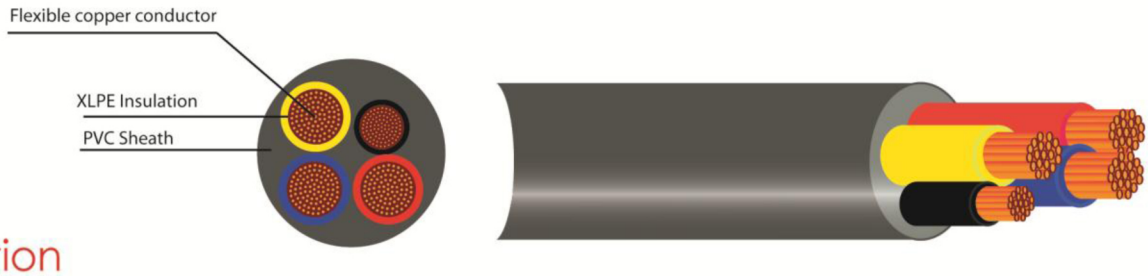
Product - Code	Cable Size	Conductor: Stranded copper class-5						Approx. Overall diameter (mm)	Current Rating (A
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)			In Air
CP1F1 05 U 13	3X35+16	35 16	490 224	0.30 0.30	9.25 5.2	0.554 1.21		28.6	110
CP1F1 05 U 14	3X50+25	50 25	700 350	0.30 0.30	10.5 7.5	0.386 0.780		34.0	138
CP1F1 05 U 15	3X70+35	70 35	980 490	0.30 0.30	12.6 9.25	0.272 0.554		39.4	171
CP1F1 05 U 16	3X95+50	95 50	1330 700	0.30 0.30	14.7 10.5	0.206 0.386		46.0	209
CP1F1 05 U 17	3X120+70	120 70	1680 980	0.30 0.30	16.3 12.6	0.161 0.272		50.0	242
CP1F1 05 U 18	3X150+70	150 70	2100 980	0.30 0.30	19.0 12.6	0.129 0.272		56.0	275
CP1F1 05 U 19	3X185+95	185 95	2590 1330	0.30 0.30	21.0 14.7	0.106 0.206		62.0	314
CP1F1 05 U 20	3X240+120	240 120	3360 1680	0.30 0.30	24.0 16.3	0.0801 0.161		69.0	374

Low Voltage Cables

2 - Multi Core Cable With Flexible Copper Conductor

2.88

According to IEC-60502 (600 / 1000) V - Four Core Cables With Reduced Neutral



Description

Flexible Copper Conductor Insulated
With Polyvinyl Chloride PVC
And PVC sheathed(CU/XLPE/PVC).

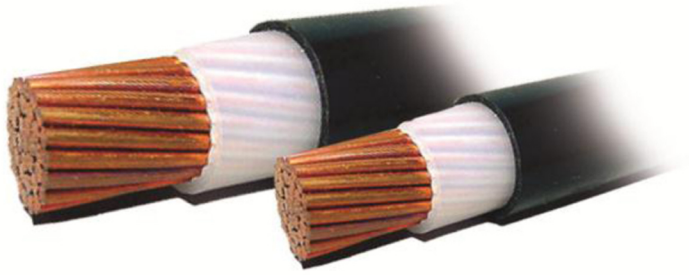
Cables are produced according to IEC 60502.

Application

For indoor fixed i nstallations in dry locations,
where particular flexibility is required.
For electrical panels connection or for electrical
apparatus they can be laid in groups around steel sheets.

Product - Code	Cable Size	Conductor: Stranded copper class-5								Approx. Overall diameter (mm)	Current Rating (A
		Conductor Nominal C.S.A $(mm)^2$		Number of Strands		Diameter Of Each Strand (mm)		Nominal Conductor Diameter (mm)		Max. DC Resistance at 20°C (Ohm/km)			In Air
CX1F1 05 U 13	3X35+16	35	16	490	224	0.30	0.30	9.25	5.2	0.554	1.21	26.9	110
CX1F1 05 U 14	3X50+25	50	25	700	350	0.30	0.30	10.5	7.5	0.386	0.780	32.5	138
CX1F1 05 U 15	3X70+35	70	35	980	490	0.30	0.30	12.6	9.25	0.272	0.554	37.8	171
CX1F1 05 U 16	3X95+50	95	50	1330	700	0.30	0.30	14.7	10.5	0.206	0.386	43.0	209
CX1F1 05 U 17	3X120+70	120	70	1680	980	0.30	0.30	16.3	12.6	0.161	0.272	48.1	242
CX1F1 05 U 18	3X150+70	150	70	2100	980	0.30	0.30	19.0	12.6	0.129	0.272	54.1	275
CX1F1 05 U 19	3X185+95	185	95	259	1330	0.30	0.30	21.0	14.7	0.106	0.206	60.0	314
CX1F1 05 U 20	3X240+120	240	120	3360	1680	0.30	0.30	24.0	16.3	0.0801	0.161	67.4	374

STRANDED CABLES

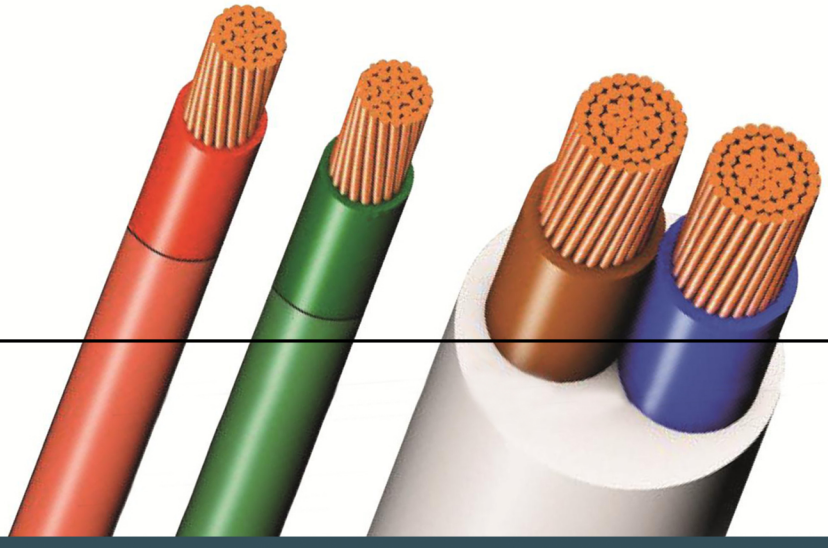


1-Single Core Stranded copper conductor

11.1According to IEC-60227 (300/500)V .....CU/PVC
11.2According to IEC-60227 (450/750)V .....CU/PVC
11.3According to IEC-60502 (600/1000)V.....CU/PVC/PVC
11.4According to IEC-60502 (600/1000)V.....CU/XLPE/PVC

2-Multi Core Stranded copper conductor

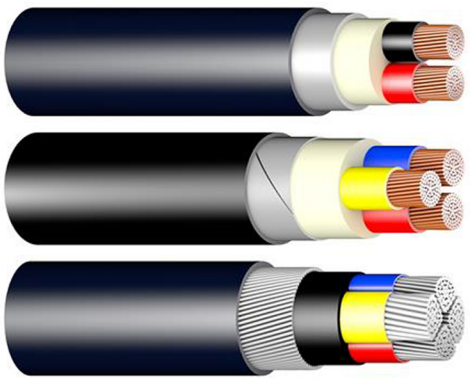
22.1According to IEC-60227 (300/500)V-Two Core .....CU/PVC/PVC
22.2According to IEC-60227 (300/500)V-Three Core.....CU/PVC/PVC
22.3According to IEC-60227 (300/500)V-Four Core.....CU/PVC/PVC
22.4According to IEC-60227 (300/500)V-Five Core .....CU/PVC/PVC
22.5According to IEC-60502 (600/1000)V-Two Core.....CU/PVC/PVC
22.55According to IEC-60502 (600/1000)V-Two Core .....CU/XLPE/PVC
22.6According to IEC-60502 (600/1000)V-Three Core.....CU/PVC/PVC
22.66According to IEC-60502 (600/1000)V-Three Core.....CU/XLPE/PVC
22.7According to IEC-60502 (600/1000)V-Four Core.....CU/PVC/PVC
22.77According to IEC-60502 (600/1000)V-Four Core.....CU/XLPE/PVC
22.8According to IEC-60502 (600/1000)V-Four Core/0.5N.....CU/PVC/PVC
22.88According to IEC-60502 (600/1000)V-Four Core/0.5N.....CU/XLPE/PVC

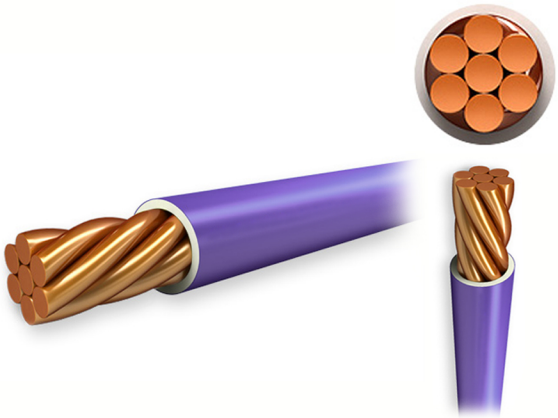


STRANDED CABLES

Stranded cable consists of multiple strands of wires wrapped around each other in each conductor.

Stranded cable is much more flexible and consequently suited to applications which demand flexibility and reshaping.





The Stranded cables are more rigid than the flexible cables to fit their function as they are used for outdoor & indoor installations in dry & wet locations. Thy are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations

Low Voltage Cables

11 - Single Core Cable With Stranded Copper Conductor

11.1

According to IEC-60227 (300 / 500) V



Description

- Stranded Copper Conductor Insulated With Poly vinyl Chloride (CU/PVC) .

- Cables are produced according to IEC 60227.

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Conductor: Stranded copper class-2							Insulation : P.V.C		
	Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air		Average Insulation Thickness (mm)	Max. Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.km)
						Free	In Pipes			
CP0T1 01 U 00	0.5	1	0.80	0.80	36.0	2	2	0.6	2.4	0.015
CP0T1 01 U 01	0.75	1	1.0	1.0	24.5	10	7	0.6	2.6	0.012
CP0T1 01 U 02	1	1	1.12	1.12	18.1	13	10	0.6	2.8	0.011

Low Voltage Cables

11 - Single Core Cable With Stranded Copper Conductor

11.2

According to IEC-60227 (450 / 750) V



Description

- Stranded Copper Conductor Insulated With Polyvinyl Chloride (CU/PVC) .

Cables are produced according to IEC 60227.

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Conductor: Stranded copper class-2							Insulation : P.V.C			Approx. Weight kg/km
	Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Current rating in air		Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Min. Insulation resistance at 70°C (M ohm.km)	
						Free	In Pipes				
CPDT1 01 U 04	1.5	7	0.53	1.60	12.1	17	13	0.7	2.7:3.3	0.010	21
CPDT1 01 U 05	2	7	0.60	1.80	9.14	19	15	0.8	3.1:3.8	0.009	28
CPDT1 01 U 06	2.5	7	0.67	2.01	7.41	24	19	0.8	3.3:4.0	0.009	33
CPDT1 01 U 07	3	7	0.74	2.25	6.13	27	21	0.8	3.5:4.3	0.0085	39
CPDT1 01 U 08	4	7	0.85	2.55	4.61	32	23	0.8	3.8:4.6	0.0077	50
CPDT1 01 U 09	6	7	1.04	3.15	3.08	40	29	0.8	4.3:5.2	0.0065	71
CPDT1 01 U 10	10	7	1.35	4.05	1.83	57	41	1.0	5.6:6.7	0.0065	117
CPDT1 01 U 11	16	7	1.70	5.1	1.15	76	54	1.0	6.4:7.8	0.0050	177
CPDT1 01 U 12	25	19	1.30	6.5	0.727	103	70	1.2	8.1:9.7	0.0050	278
CPDT1 01 U 13	35	19	1.50	7.5	0.524	128	87	1.2	9.0:10.9	0.0043	371
CPDT1 01 U 14	50	19	1.80	9.0	0.387	156	106	1.4	10.6:12.8	0.0043	514
CPDT1 01 U 15	70	19	2.15	10.75	0.268	200	131	1.4	12.1:14.6	0.0035	711
CPDT1 01 U 16	95	19	2.5	12.5	0.193	251	166	1.6	14.1:17.1	0.0035	967
CPDT1 01 U 17	120	37	2.02	14.15	0.153	293	190	1.6	15.6:18.8	0.0032	1240
CPDT1 01 U 18	150	37	2.25	15.75	0.121	335	219	1.8	17.3:20.9	0.0032	1500
CPDT1 01 U 19	185	37	2.50	17.5	0.0991	390	250	2.0	19.3:23.3	0.0032	1852
CPDT1 01 U 20	240	61	2.25	20.25	0.0754	471	300	2.2	22.0:26.6	0.0032	2457
CPDT1 01 U 30	300	61	2.50	22.5	0.0601	540	340	2.4	24.5:29.6	0.0030	2977

Low Voltage Cables

11 - Single Core Cable With Stranded Copper Conductor

11.3

According to IEC-60227 (600 / 1000) V



Description

- Stranded Copper Conductor Insulated With Polyvinyl Chloride And PVC Sheathed (CU/PVC/PVC) .
- Cables are produced according to IEC 60502.

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Conductor: Stranded copper class-2					Insulation : P.V.C		Oversheath : P.V.C		Approx. Weight kg/km
	Conductor Nominal C.S.A (mm²)	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	
CP1T1 01 U 04	1.5	7	0.53	1.60	12.10	0.8	3.2	1.4	6.0	49
CP1T1 01 U 06	2.5	7	0.67	2.01	7.41	0.8	3.6	1.4	6.4	62
CP1T1 01 U 08	4	7	0.85	2.55	4.61	1.0	4.55	1.4	7.35	86
CP1T1 01 U 09	6	7	1.04	3.15	3.08	1.0	5.15	1.4	7.95	115
CP1T1 01 U 10	10	7	1.35	4.05	1.83	1.0	6.05	1.4	8.85	165
CP1T1 01 U 11	16	7	1.70	5.1	1.15	1.0	7.1	1.4	9.9	231
CP1T1 01 U 12	25	19	1.30	6.5	0.727	1.2	8.9	1.4	11.7	343
CP1T1 01 U 13	35	19	1.50	7.5	0.524	1.2	9.9	1.4	12.7	445
CP1T1 01 U 14	50	19	1.80	9	0.387	1.4	11.8	1.4	14.6	600
CP1T1 01 U 15	70	19	2.15	10.75	0.268	1.4	13.55	1.5	16.55	805
CP1T1 01 U 16	95	19	2.5	12.5	0.193	1.6	15.7	1.5	18.7	1085
CP1T1 01 U 17	120	37	2.02	14.15	0.153	1.6	17.35	1.6	20.55	1350
CP1T1 01 U 18	150	37	2.25	15.75	0.121	1.8	19.35	1.7	22.75	1654
CP1T1 01 U 19	185	37	2.50	17.5	0.0991	2.0	21.5	1.7	24.9	2030
CP1T1 01 U 20	240	61	2.25	20.25	0.0754	2.2	24.65	1.9	28.45	2675
CP1T1 01 U 30	300	61	2.50	22.5	0.0601	2.4	27.3	2.0	31.3	3280

Low Voltage Cables

11 - Single Core Cable With Stranded Copper Conductor

11.4

According to IEC-60227 (600 / 1000) V



Description

- Stranded Copper Conductor Insulated With XLPE And PVC Sheathed (CU/X.L.P.E/PVC) .
- Cables are produced according to IEC 60502.

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Conductor: Stranded copper class-2					Insulation : X.L.P.E		Oversheath : P.V.C		Approx. Weight kg/km
	Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	
CX1T1 01 U 04	1.5	7	0.53	1.60	12.10	0.7	3.00	1.4	5.8	43
CX1T1 01 U 06	2.5	7	0.67	2.01	7.41	0.7	3.40	1.4	6.2	57
CX1T1 01 U 08	4	7	0.85	2.55	4.61	0.7	3.95	1.4	6.75	80
CX1T1 01 U 09	6	7	1.04	3.15	3.08	0.7	4.55	1.4	7.35	102
CX1T1 01 U 10	10	7	1.35	4.05	1.83	0.7	5.45	1.4	8.25	150
CX1T1 01 U 11	16	7	1.70	5.1	1.15	0.7	6.5	1.4	9.3	210
CX1T1 01 U 12	25	19	1.30	6.5	0.727	0.9	8.3	1.4	11.1	315
CX1T1 01 U 13	35	19	1.50	7.5	0.524	0.9	9.3	1.4	12.1	410
CX1T1 01 U 14	50	19	1.80	9	0.387	1.0	11.0	1.4	13.8	555
CX1T1 01 U 15	70	19	2.15	10.75	0.268	1.1	12.95	1.5	15.95	760
CX1T1 01 U 16	95	19	2.5	12.5	0.193	1.1	14.7	1.5	17.7	1015
CX1T1 01 U 17	120	37	2.02	14.15	0.153	1.2	16.55	1.6	19.75	1280
CX1T1 01 U 18	150	37	2.25	15.75	0.121	1.4	18.55	1.6	21.75	1570
CX1T1 01 U 19	185	37	2.50	17.5	0.0991	1.6	20.7	1.7	24.10	1920
CX1T1 01 U 20	240	61	2.25	20.25	0.0754	1.7	23.65	1.8	27.25	2530
CX1T1 01 U 30	300	61	2.50	22.5	0.0601	1.8	26.1	1.9	29.9	3105

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.1

According to IEC-60227 (450 / 750) V - Two Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).

- Cables are produced according to IEC 60227 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Insulation : PVC		Oversheath : P.V.C		
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70 (M ohm.km)
CP0T1 02 U 04	2X1.5	1.5	7	0.53	1.6	12.1	0.7	2.7:3.3	1.2	7.8:10.5	0.010
CP0T1 02 U 05	2X2	2.0	7	0.60	1.8	9.14	0.8	3.1:3.8	1.2	7.5:9.5	0.0095
CP0T1 02 U 06	2X2.5	2.5	7	0.67	2.01	7.41	0.8	3.3:4.0	1.2	9.0:12.0	0.009
CP0T1 02 U 08	2X4	4.0	7	0.85	2.55	4.61	0.8	3.8:4.6	1.2	10.0:13.0	0.0077
CP0T1 02 U 09	2X6	6.0	7	1.04	3.15	3.08	0.8	4.3:5.2	1.2	11.0:14.0	0.0065
CP0T1 02 U 10	2X10	10.0	7	1.35	4.05	1.83	1.0	5.6:6.7	1.4	13.5:17.5	0.0065
CP0T1 02 U 11	2X16	16.0	7	1.70	5.1	1.15	1.0	6.4:7.8	1.4	15.5:20.0	0.0052
CP0T1 02 U 12	2X25	25.0	19	1.30	6.5	0.727	1.2	8.1:9.7	1.4	18.5:24.0	0.005
CP0T1 02 U 13	2X35	35.0	19	1.50	7.5	0.524	1.2	9.0:10.9	1.6	21.0:27.5	0.0044

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.2

According to IEC-60227 (450 / 750) V Three Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).

- Cables are produced according to IEC 60227 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Insulation : PVC		Oversheath : P.V.C		
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness `(mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70 (M ohm.km)
CP0T1 03 U 04	3X1.5	1.5	7	0.53	1.6	12.1	0.7	2.7:3.3	1.2	8.2:11.0	0.010
CP0T1 03 U 05	3X2	2.0	7	0.60	1.8	9.14	0.8	3.1:3.8	1.2	9.2:12.0	0.0095
CP0T1 03 U 06	3X2.5	2.5	7	0.67	2.01	7.41	0.8	3.3:4.0	1.2	9.4:12.5	0.009
CP0T1 03 U 08	3X4	4.0	7	0.85	2.55	4.61	0.8	3.8:4.6	1.2	10.5:13.5	0.0077
CP0T1 03 U 09	3X6	6.0	7	1.04	3.15	3.08	0.8	4.3:5.2	1.4	12.0:15.5	0.0065
CP0T1 03 U 10	3X10	10.0	7	1.35	4.05	1.83	1.0	5.6:6.7	1.4	14.5:19.0	0.0065
CP0T1 03 U 11	3X16	16.0	7	1.70	5.1	1.15	1.0	6.4:7.8	1.4	16.5:21.5	0.0052
CP0T1 03 U 12	3X25	25.0	19	1.30	6.5	0.727	1.2	8.1:9.7	1.6	20.5:26	0.005
CP0T1 03 U 13	3X35	35.0	19	1.50	7.5	0.524	1.2	9.0:10.9	1.6	22.0:29.0	0.0044

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.3

According to IEC-60227 (450 / 750) V - Four Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).

- Cables are produced according to IEC 60227 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Insulation : PVC		Oversheath : P.V.C		
		Conductor Nominal C.S.A (mm)^2	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness `(mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70 (M ohm.km)
CP0T1 04 U 04	4X1.5	1.5	7	0.53	1.6	12.1	0.7	2.7:3.3	1.2	9.0:12.0	0.010
CP0T1 04 U 05	4X2	2.0	7	0.60	1.8	9.14	0.8	3.1:3.8	1.2	10.1:12.5	0.0095
CP0T1 04 U 06	4X2.5	2.5	7	0.67	2.01	7.41	0.8	3.3:4.0	1.2	10.0:13.5	0.009
CP0T1 04 U 08	4X4	4.0	7	0.85	2.55	4.61	0.8	3.8:4.6	1.4	12.0:15.0	0.0077
CP0T1 04 U 09	4X6	6.0	7	1.04	3.15	3.08	0.8	4.3:5.2	1.4	13.0:17.0	0.0065
CP0T1 04 U 10	4X10	10.0	7	1.35	4.05	1.83	1.0	5.6:6.7	1.4	16.0:20.5	0.0065
CP0T1 04 U 11	4X16	16.0	7	1.70	5.1	1.15	1.0	6.4:7.8	1.4	18.0:23.5	0.0052
CP0T1 04 U 12	4X25	25.0	19	1.30	6.5	0.727	1.2	8.1:9.7	1.6	22.5:28.5	0.005
CP0T1 04 U 13	4X35	35.0	19	1.50	7.5	0.524	1.2	9.0:10.9	1.6	24.5:32.0	0.0044

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.4

According to IEC-60227 (450 / 750) V - Five Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).

- Cables are produced according to IEC 60227 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Insulation : PVC		Oversheath : P.V.C		
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)	Average Insulation Thickness (mm)	Approx Diameter after Insulation (mm)	Oversheathed Nominal Thickness (mm)	Approx. Overall diameter (mm)	Min. Insulation resistance at 70 (M ohm.km)
CP0T1 05 U 04	5X1.5	1.5	7	0.53	1.6	12.1	0.7	2.7:3.3	1.2	9.8:12.5	0.010
CP0T1 05 U 05	5X2	2.0	7	0.60	1.8	9.14	0.8	3.1:3.8	1.2	10.3:12.8	0.0095
CP0T1 05 U 06	5X2.5	2.5	7	0.67	2.01	7.41	0.8	3.3:4.0	1.2	11.0:14.5	0.009
CP0T1 05 U 08	5X4	4.0	7	0.85	2.55	4.61	0.8	3.8:4.6	1.4	13.0:17.0	0.0077
CP0T1 05 U 09	5X6	6.0	7	1.04	3.15	3.08	0.8	4.3:5.2	1.4	14.5:18.5	0.0065
CP0T1 05 U 10	5X10	10.0	7	1.35	4.05	1.83	1.0	5.6:6.7	1.4	17.5:22.0	0.0065
CP0T1 05 U 11	5X16	16.0	7	1.70	5.1	1.15	1.0	6.4:7.8	1.6	20.5:26	0.0052
CP0T1 05 U 12	5X25	25.0	19	1.30	6.5	0.727	1.2	8.1:9.7	1.6	24.5:31.5	0.005
CP0T1 05 U 13	5X35	35.0	19	1.50	7.5	0.524	1.2	9.0:10.9	1.6	27.0:35.0	0.0044

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.5

According to IEC-60502 (600 / 1000) V - Two Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).

- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CP1T1 02 U 04	2X1.5	1.5	7	0.53	1.60	12.1	10.0	24	19	20	120
CP1T1 02 U 06	2X2.5	2.5	7	0.67	2.01	7.41	10.8	30	25	28	145
CP1T1 02 U 08	2X4	4.0	7	0.85	2.55	4.61	12.7	40	32	39	205
CP1T1 02 U 09	2X6	6.0	7	1.04	3.15	3.08	13.9	50	40	50	255
CP1T1 02 U 10	2X10	10.0	7	1.35	4.05	1.83	15.7	65	55	66	425
CP1T1 02 U 11	2X16	16.0	7	1.70	5.1	1.15	17.8	85	65	88	580
CP1T1 02 U 12	2X25	25.0	19	1.30	6.5	0.727	21.4	110	85	116	845
CP1T1 02 U 13	2X35	35.0	19	1.50	7.5	0.524	23.4	130	105	143	1090

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.55

According to IEC-60502 (600 / 1000) V - Two Core Cables



Description

- Stranded Copper Conductor Insulated With XLPE And PVC sheathed(CU/XLPE/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

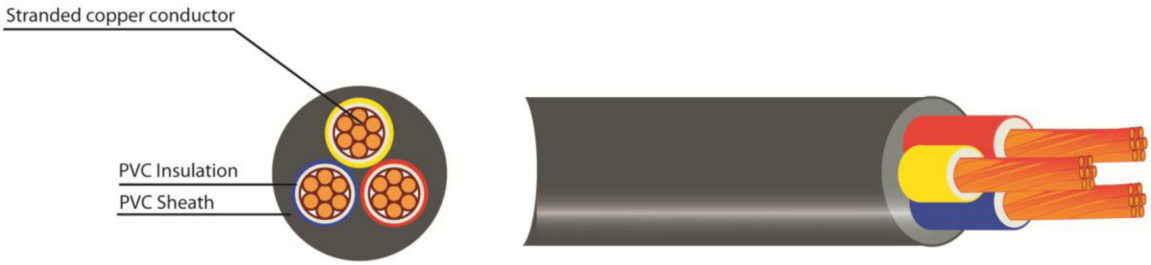
Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A $(mm)^2$	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CX1T1 02 U 04	2X1.5	1.5	7	0.53	1.60	12.1	9.6	30	25	25	105
CX1T1 02 U 06	2X2.5	2.5	7	0.67	2.01	7.41	10.4	37	32	34	135
CX1T1 02 U 08	2X4	4.0	7	0.85	2.55	4.61	11.5	50	40	46	175
CX1T1 02 U 09	2X6	6.0	7	1.04	3.15	3.08	12.7	63	52	60	225
CX1T1 02 U 10	2X10	10.0	7	1.35	4.05	1.83	14.5	82	69	79	360
CX1T1 02 U 11	2X16	16.0	7	1.70	5.1	1.15	16.6	106	83	105	505
CX1T1 02 U 12	2X25	25.0	19	1.30	6.5	0.727	20.2	139	107	139	750
CX1T1 02 U 13	2X35	35.0	19	1.50	7.5	0.524	22.2	166	134	166	980

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.6

According to IEC-60502 (600 / 1000) V - Three Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

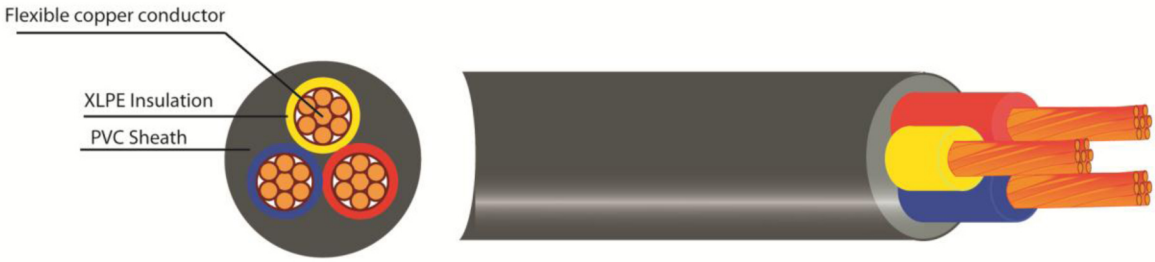
Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CP1T1 03 U 04	3X1.5	1.5	7	0.53	1.60	12.1	10.5	21	18	18	145
CP1T1 03 U 06	3X2.5	2.5	7	0.67	2.01	7.41	11.3	27	23	22	190
CP1T1 03 U 08	3X4	4.0	7	0.85	2.55	4.61	13.4	35	30	31	270
CP1T1 03 U 09	3X6	6.0	7	1.04	3.15	3.08	14.7	45	36	39	340
CP1T1 03 U 10	3X10	10.0	7	1.35	4.05	1.83	16.6	60	48	53	485
CP1T1 03 U 11	3X16	16.0	7	1.70	5.1	1.15	18.9	75	60	72	685
CP1T1 03 U 12	3X25	25.0	19	1.30	6.5	0.727	22.7	100	80	94	995
CP1T1 03 U 13	3X35	35.0	19	1.50	7.5	0.524	24.9	120	95	110	1300

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.66

According to IEC-60502 (600 / 1000) V - Three Core Cables



Description

- Stranded Copper Conductor Insulated With XLPE And PVC sheathed(CU/XLPE/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CX1T1 03 U 04	3X1.5	1.5	7	0.53	1.60	12.1	10.1	26	23	22	130
CX1T1 03 U 06	3X2.5	2.5	7	0.67	2.01	7.41	10.9	35	29	32	165
CX1T1 03 U 08	3X4	4.0	7	0.85	2.55	4.61	12.1	45	36	41	225
CX1T1 03 U 09	3X6	6.0	7	1.04	3.15	3.08	13.4	57	45	50	295
CX1T1 03 U 10	3X10	10.0	7	1.35	4.05	1.83	15.3	75	60	68	430
CX1T1 03 U 11	3X16	16.0	7	1.70	5.1	1.15	17.6	97	75	89	620
CX1T1 03 U 12	3X25	25.0	19	1.30	6.5	0.727	21.4	128	102	120	910
CX1T1 03 U 13	3X35	35.0	19	1.50	7.5	0.524	23.6	155	120	145	1205

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.7

According to IEC-60502 (600 / 1000) V - Four Core Cables



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60502 .

Application

For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

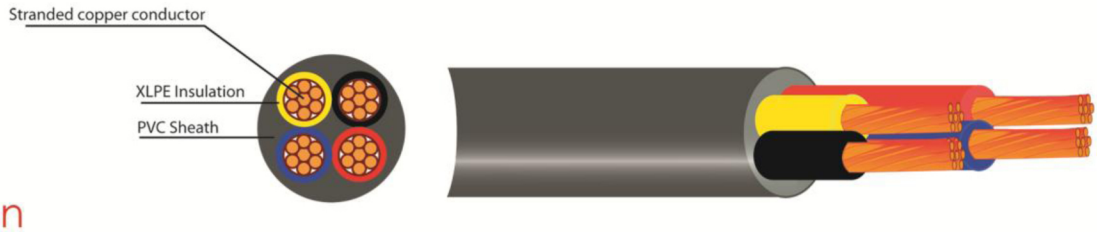
Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CP1T1 04 U 04	4X1.5	1.5	7	0.53	1.60	12.1	11.3	21	18	18	180
CP1T1 04 U 06	4X2.5	2.5	7	0.67	2.01	7.41	12.3	27	23	22	230
CP1T1 04 U 08	4X4	4.0	7	0.85	2.55	4.61	14.6	35	30	31	335
CP1T1 04 U 09	4X6	6.0	7	1.04	3.15	3.08	16.0	45	36	39	425
CP1T1 04 U 10	4X10	10.0	7	1.35	4.05	1.83	18.2	60	48	53	635
CP1T1 04 U 11	4X16	16.0	7	1.70	5.1	1.15	20.7	75	60	72	880
CP1T1 04 U 12	4X25	25.0	19	1.30	6.5	0.727	25.1	100	80	94	1295
CP1T1 04 U 13	4X35	35.0	19	1.50	7.5	0.524	27.5	120	95	110	1700
CP1T1 04 U 14	4X50	50.0	19	1.80	9.0	0.387	32.5	145	115	138	2225
CP1T1 04 U 15	4X70	70.0	19	2.15	10.75	0.268	36.9	175	145	171	3065
CP1T1 04 U 16	4X95	95.0	19	2.5	12.5	0.193	42.5	210	165	209	4175
CP1T1 04 U 17	4X120	120.0	37	2.02	14.15	0.153	46.9	240	195	242	5205
CP1T1 04 U 18	4X150	150.0	37	2.25	15.75	0.121	51.7	270	220	275	6400
CP1T1 04 U 19	4X185	185.0	37	2.5	17.5	0.0991	57.5	300	245	314	7960
CP1T1 04 U 20	4X240	240.0	61	2.25	20.25	0.0754	65.7	345	290	374	10330
CP1T1 04 U 30	4X300	300.0	61	2.5	22.5	0.0601	72.5	390	320	440	12915

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.77

According to IEC-60502 (600 / 1000) V - Four Core Cables



Description

- Stranded Copper Conductor Insulated With XLPE And PVC sheathed(CU/XLPE/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2					Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²	Number of Strands	Diameter Of Each Strand (mm)	Nominal Conductor Diameter (mm)	Max. DC Resistance at 20°C (Ohm/km)		Direc in Ground	In Ducts	In Air	
CX1T1 04 U 04	4X1.5	1.5	7	0.53	1.60	12.1	10.8	26	23	22	150
CX1T1 04 U 06	4X2.5	2.5	7	0.67	2.01	7.41	11.8	35	29	32	205
CX1T1 04 U 08	4X4	4.0	7	0.85	2.55	4.61	13.1	45	36	41	280
CX1T1 04 U 09	4X6	6.0	7	1.04	3.15	3.08	14.6	57	45	50	365
CX1T1 04 U 10	4X10	10.0	7	1.35	4.05	1.83	16.8	75	60	68	565
CX1T1 04 U 11	4X16	16.0	7	1.70	5.1	1.15	19.3	97	75	89	795
CX1T1 04 U 12	4X25	25.0	19	1.30	6.5	0.727	23.6	128	102	120	1185
CX1T1 04 U 13	4X35	35.0	19	1.50	7.5	0.524	26.1	155	120	145	1575
CX1T1 04 U 14	4X50	50.0	19	1.80	9.0	0.387	30.4	185	145	179	2060
CX1T1 04 U 15	4X70	70.0	19	2.15	10.75	0.268	35.5	220	180	225	2905
CX1T1 04 U 16	4X95	95.0	19	2.5	12.5	0.193	39.9	265	210	268	3910
CX1T1 04 U 17	4X120	120.0	37	2.02	14.15	0.153	44.8	305	245	310	4915
CX1T1 04 U 18	4X150	150.0	37	2.25	15.75	0.121	49.8	335	275	352	6035
CX1T1 04 U 19	4X185	185.0	37	2.5	17.5	0.0991	55.4	375	310	404	7540
CX1T1 04 U 20	4X240	240.0	61	2.25	20.25	0.0754	63.1	435	365	483	9785
CX1T1 04 U 30	4X300	300.0	61	2.5	22.5	0.0601	69.4	490	405	562	12190

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.8

According to IEC-60502 (600 / 1000) V - Four Core Cables With Reduced Neutral



Description

- Stranded Copper Conductor Insulated With Poly Vinyl Cloride (PVC) And PVC sheathed(CU/PVC/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2								Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²		Number of Strands		Diameter Of Each Strand (mm)		Nominal Conductor Diameter mm		Max. DC Resistance at 20°C Ohm/km			Direc in Ground	In Ducts	In Air	
CP1T1 05 U 13	3X35+16	35	16	19	7	1.50	1.70	7.5	5.1	0.524	1.15	25.9	120	95	110	1505
CP1T1 05 U 14	3X50+25	50	25	19	19	1.80	1.30	9.0	6.5	0.387	0.727	30.6	145	115	138	2115
CP1T1 05 U 15	3X70+35	70	35	19	19	2.15	1.50	10.75	7.50	0.268	0.524	34.8	175	145	171	2725
CP1T1 05 U 16	3X95+50	95	50	19	19	2.50	1.80	12.5	9.0	0.193	0.387	40.0	210	165	209	3690
CP1T1 05 U 17	3X120+70	120	70	37	19	2.02	2.15	14.15	10.75	0.153	0.268	44.5	240	195	242	4675
CP1T1 05 U 18	3X150+70	150	70	37	19	2.25	2.15	15.75	10.75	0.121	0.268	48.4	270	220	275	5580
CP1T1 05 U 19	3X185+95	185	95	37	19	2.50	2.50	17.5	12.5	0.0991	0.193	53.9	300	245	314	7025
CP1T1 05 U 20	3X240+120	240	120	61	37	2.25	2.02	20.25	14.15	0.0754	0.153	61.0	345	290	374	9060
CP1T1 05 U 30	3X300+150	300	150	61	37	2.50	2.25	22.5	15.75	0.0601	0.121	67.5	390	320	440	11280

Low Voltage Cables

22 - Multi Core Cable With Stranded Copper Conductor

22.88

According to IEC-60502 (600 / 1000) V - Four Core Cables With Reduced Neutral



Description

- Stranded Copper Conductor Insulated With XLPE And PVC sheathed(CU/XLPE/PVC).
- Cables are produced according to IEC 60502 .

Application

- For Outdoor and Indoor installations in dry and wet locations. They are normally used for power distribution in Urban Networks, Industrial plants as well as thermopower and hydropower stations.

Product - Code	Cable Size	Conductor: Stranded copper class-2						Approx. Overall diameter (mm)	Current Rating (A			Approx. Weight kg/km
		Conductor Nominal C.S.A (mm)²		Number of Strands		Diameter Of Each Strand (mm)		Nominal Conductor Diameter mm		Max. DC Resistance at 20°C Ohm/km			Direc in Ground	In Ducts	In Air	
CX1T1 05 U 13	3X35+16	35	16	19	7	1.50	1.70	7.5	5.1	0.524	1.15	24.4	155	120	142	1390
CX1T1 05 U 14	3X50+25	50	25	19	19	1.80	1.30	9.0	6.5	0.387	0.727	28.8	185	145	179	1835
CX1T1 05 U 15	3X70+35	70	35	19	19	2.15	1.50	10.75	7.50	0.268	0.524	33.1	220	180	215	2540
CX1T1 05 U 16	3X95+50	95	50	19	19	2.50	1.80	12.5	9.0	0.193	0.387	37.7	265	210	268	3435
CX1T1 05 U 17	3X120+70	120	70	37	19	2.02	2.15	14.15	10.75	0.153	0.268	42.5	305	245	310	4400
CX1T1 05 U 18	3X150+70	150	70	37	19	2.25	2.15	15.75	10.75	0.121	0.268	46.5	335	275	352	5255
CX1T1 05 U 19	3X185+95	185	95	37	19	2.50	2.50	17.5	12.5	0.0991	0.193	51.7	375	310	404	6640
CX1T1 05 U 20	3X240+120	240	120	61	37	2.25	2.02	20.25	14.15	0.0754	0.153	58.7	435	365	483	8555
CX1T1 05 U 30	3X300+150	300	150	61	37	2.50	2.25	22.5	15.75	0.0601	0.121	64.8	490	405	562	10640

* تم تزويد المصنع بأحدث خطوط الإنتاج المتكاملة لتواكب الطاقة الإنتاجية المطلوبة.
* فى ظل الظروف الإقتصادية التى تمر بها البلاد تسعى الشركة جاهدة لتحقيق المعادلة الصعبة وهى أعلى جودة بأقل تكلفة ممكنة معتمدة فى ذلك على عدة عوامل وهى:.

١ – التطوير المستمر فى خطوط الإنتاج
٢ – الإعتماد على أحدث التقنيات العلمية والمعملية فى إختيار المواد الخام وضبط جودة المنتج
٣ – التدريب المستمر للطاقة البشرية .
٤ – التطوير المستمر لقدرات مراقبة جودة الإنتاج

* يحتوي هذا الكتالوج على تصميم ، البيانات الفنية لمجموعة كاملة من كابلات مصمتة – مجدولة – مرنة والموصلات الهوائية



* تؤمن الشركة إيماناً راسخاً أن الجودة أهم العوامل الرئيسية أثناء عملية التصنيع من أجل الحصول على منتجات أمنة وموثوقة .

* كما تحرص الشركة حرصاً كاملاً على تصنيع المنتجات بالمعايير الفنية للجودة حيث يتم تصنيع الأسلاك والكابلات بما يتوافق مع المواصفات المصرية (م.ق.م ٢٩٤٨ / ٢٠٠٥ – ١٨٢ / ٢٠٢٣) وطبقاً للمواصفات القياسية العالمية لمعايير جودة الكابلات (IEC 60228,60227, 60502)بما يتوافق مع نتائج أبحاث السوق ومتطلبات العملاء.

* كما يتفق نظام الإدارة بالشركة مع نظم الإدارة العالمية للجودة (ISO 9001) ونظم الإدارة العالمية للبيئة (ISO 14001) ونظم الإدارة العالمية للسلامة والصحة المهنية (ISO 45000)

مصنع الشركة

تمتلك الشركة مصنعاً يقوم بصناعة جميع أنواع الموصلات والأسلاك والكابلات الكهربائية والذى يعمل بأحدث التقنيات ويتولي تصنيع مجموعة متنوعة من المنتجات عالية الجودة :



١ – الموصلات الكهربائية :

الأسلاك النحاسية والألومنيوم المرنة والمجدولة والمصمتة

٢ – كابلات القدرة :

(كابلات التوصيلات الثابته والمتحركة)

٣ – الكابلات الهوائية :

(أسلاك مجدولة هوائية – أسلاك نحاس – أسلاك ألومنيوم)

٤ – كابلات التحكم :

(أسلاك الكنترول – أسلاك الإشارة – أسلاك الإنذار)

٥ – كابلات الكاميرات :

(كابلات كاميرات المراقبة – كابلات إنذارالحريق وأنظمة التيار الخفيف

مثل السماعات و الإنذار والأنظمة الصوتية وغيرها ...)

كما أن الشركة تمتلك معمل إختبار متخصص لتفعيل منظومة رقابة وضبط جودة الإنتاج بصفة مستمرة ويتضمن المعمل جميع أجهزة الإختبارات المنصوص عليها بالمواصفات القياسية .

نبذة عن الشركة

– تعد شركة نيو إيجا للكابلات الكهربائية من الشركات الرائدة في السوق فى مجال تصنيع وتوريد الكابلات والأسلاك الكهربائية .

– تأسست الشركة فى عام ٢٠٠٨ بمنطقة مبارك الصناعية – قويسنا

– تقدم الشركة مجموعة متنوعة من الكابلات والأسلاك الموثوقة والآمنة المستخدمة في نقل وتوزيع الكهرباء ، حيث يتم استخدام أفضل المواد الخام ذات الجودة العالية لتصنيع مختلف أنواع الكابلات والأسلاك التي تلبي كافة الاستخدامات المنزلية والتجارية والصناعية والتطبيقات الخاصة كأسلاك التمديدات الكهربائية للمباني وكابلات القدرة منخفضة الجهد والكابلات الهوائية بالإضافة إلى كابلات البيانات ونقل الإشارة وكابلات التليفونات وكاميرات المراقبة وكابلات أنظمة الخلايا الشمسية والكابلات المقاومة للحريق وغيرها .

– يوجد لدينا فريق متكامل من المهندسين والفنيين المتخصصين فى هذا المجال فيتم مراقبة جودة المنتج خلال جميع مراحل الإنتاج بدءاً من إستلام الخامات حتى المنتج النهائى.



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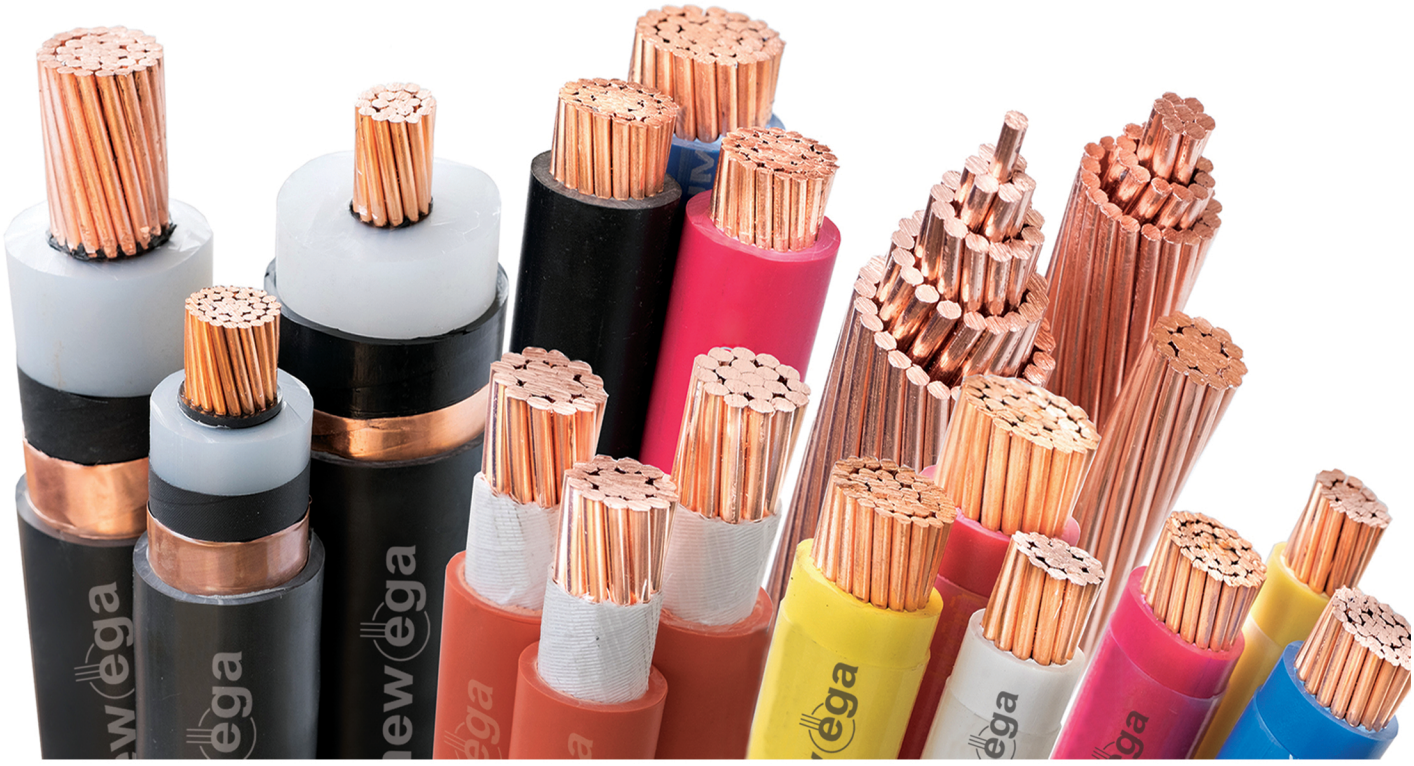


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نيـــو إيجـــا للصناعـات الكهربائيـــة

كتالـــوج ٢٠٢٣



الإدارة / ٥٢ شارع عبد الخالق ثروت - وسط البلد - القاهرة
ت : ٢٣٩٦٠٦٢٨ - ٢٣٩٥٧٦٦٨ فاكس : ٢٣٩٦٠٦٢٧
موبايل : ٠١٢٢٤٤٣٨٤٦٣ - ٠١٠٠٤٤٠٠٩٢٧
المصنع/ منطقة مبارك الصناعية المرحلة الثانية - قويسنا - المنوفية
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