

# MEDIUM VOLTAGE CABLE

## PRODUCT



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ZHENGZHOU, HENAN, CHINA.





# PRODUCT

## MEDIUM VOLTAGE CABLE



ZMS Cable has a wide product scope, includes: power cable up to 500KV, AAC, AAAC, ACSR conductors, ABC cable, concentric cable, electric wire, instrument cable, telecommunications cable, stay wire, ect.

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## INTRODUCTION

ZMS Cable Company's head office and warehouse are situated in the capital of Henan province, in Zhengzhou.

ZMS Cable is the earliest private enterprise in Henan(China) cable business. Our cables are manufactured using the most up-to-date technology. Modern production facilities are backed by a highly qualified work force and experienced engineers, who ensure that only cable of the highest quality leaves our factories.

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

Our product range includes general building wires, data and telecommunications cables, industrial rubber cables, overhead conductors together with power cables up to, and including, 500kV.

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

Cables are manufactured strictly in accordance with the appropriate GB (China) Standard Specifications and to IEC, CE and UL standards and are approved by the relevant Classifications Institutions. Full traceability is maintained by strict adherence to quality policies compliant with ISO9001/2, whilst environmental policies will be maintained by compliance with ISO14001 in no time.

## PRODUCTS

HIGH Voltage Power Cable up to 500kV

Medium Voltage Power Cables up to 19/33(36) KV

Low Voltage Power Cables up to 600/1000V

Control Cables 600/1000V

Bare Conductors for Overhead Lines

Earthing Conductors

PVC or XLPE Insulated Conductors

Domestic Applications / Internal Wiring

LSFH Cables & Wires

Enamelled Wires

Telephone, communication & Instrumentation Cables

## QUALITY

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

**ISO9001:2008 CETIFIED BYRWTUV GERMANY**

**ISO 9001:2008 CETIFIED BY SGS**

**ISO 14001:2009**

**BASEC RANGE OF CERTIFICATES**

We ZMS Cables always aim for the best. Among the Cable manufacturers in China,we stand out with ISO 9001 which recognizes our ability for Design & Development as well.

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

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

## NOTE 1

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

## NOTE 2

Voltage Rating:

Two distinct systems of voltage designation are generally in use. Equivalence between these two systems. Based on insulation thickness and maximum value of highest system voltage is as tabulated below:

IEC Designation U0/ U (Um)	BS Designation U0/U(Um)
3.6/6 (7.2)kV	3.8/6.6(7.2)kV
6/10(12)kV	6.35/11(12)kV
8.7/15(17.5)kV	8.7/15(17.5)kV
12/20 (24)kV	12.7/22(24)kV
18/30(36)kV	19/33(36)kV

## WHERE

- $U_0$  is rated power frequency voltage between conductor and earth metallic screen, for which the cable is designed.
- $U$  is the rated power frequency voltage between conductors, for which the cable is designed.
- $U_m$  is the maximum value of "highest system voltage" for which the equipment may be used.

From above tabulation, equivalent IEC/BS designation can be determined for any system as appropriate.

## NOTE 3

The following list tabulates only the "standard" products. For any product not listed below, please do not hesitate to contact our sales & marketing division. We shall be too pleased to meet your specific requirements.

### Product

Medium Voltage Power Cables up to 30kV

- XLPE insulated, single core or multi-core armored

Conductor standard

Flame retardant

Low smoke

Halogen free

Short-circuit temperature limits of electric cables

Electric cables - Calculation of the current rating

### Standard

IEC 60502/BS 6622

IEC 60228

IEC 60332-1 & IEC 60332-3

IEC 61034-2

IEC 60754-1

IEC 60986

IEC 60287

### Auxiliary Cables

- 16 core or 34 core pilot cables to be used along with Underground power lines 11kV, 132kV and beyond

MEW/ESI Standards

3.8/6.6kV - SINGLE CORE-CU/XLPE/AWA /PVC(PE)



(HIGHEST SYSTEM VOLTAGE -7.2kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Area of Conductor	Maximum Conductor Resistance at 20 °C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Appro. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	2.5	0.4	1.6	1.8	23.9	860	500	D-11	530
50	0.387	2.5	0.4	1.6	1.8	25	1010	500	D-12	615
70	0.268	2.5	0.4	1.6	1.8	26.6	1250	500	D-12	735
95	0.193	2.5	0.4	1.6	1.8	28.5	1560	500	D-12	890
120	0.153	2.5	0.4	1.6	1.9	30.2	1840	500	D-14	1070
150	0.124	2.5	0.4	1.6	1.9	31.6	2160	500	D-14	1230
185	0.0991	2.5	0.4	1.6	2	33.4	2530	500	D-16	1480
240	0.0754	2.6	0.4	2	2.1	37.1	3240	500	D-18	1860
300	0.0601	2.8	0.4	2	2.2	39.7	3900	500	D-18	2190
400	0.047	3	0.4	2	2.3	43.2	4870	500	D-18	2680
500	0.0366	3.2	0.4	2.5	2.4	47.8	6110	500	D-19	3380
630	0.0283	3.2	0.4	2.5	2.5	51.8	7520	500	D-19	4080

All conductors circular compacted.

Equivalent voltage designation as

per IEC:60502 - 2: 3.6/6kV

Cables conform to IEC 60502-2



## 3.8/6.6kV - SINGLE CORE - CU/XLPE /CTS/PVC /AWA /PVC(PE)



(HIGHEST SYSTEM VOLTAGE -7.2kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

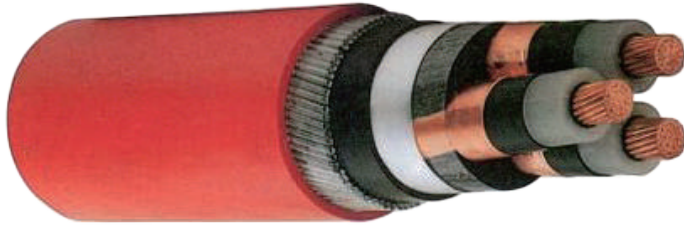
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	2.5	0.075	1.2	1.6	1.8	25.5	1020	500	D-12	620
50	0.387	2.5	0.075	1.2	1.6	1.8	26.6	1180	500	D-12	700
70	0.268	2.5	0.075	1.2	1.6	1.8	28.2	1440	500	D-12	830
95	0.193	2.5	0.075	1.2	1.6	1.9	30.3	1760	500	D-14	1030
120	0.153	2.5	0.075	1.2	1.6	1.9	31.8	2050	500	D-14	1175
150	0.124	2.5	0.075	1.2	1.6	2	33.4	2380	500	D-14	1340
185	0.0991	2.5	0.075	1.2	2	2	35.8	2840	500	D-16	1630
240	0.0754	2.6	0.075	1.2	2	2.1	38.7	3490	500	D-18	1985
300	0.0601	2.8	0.075	1.2	2	2.2	41.3	4180	500	D-18	2330
400	0.047	3	0.075	1.2	2	2.3	44.8	5160	500	D-18	2820
500	0.0366	3.2	0.075	1.3	2.5	2.5	49.8	6490	500	D-19	3565
630	0.0283	3.2	0.075	1.4	2.5	2.6	54	8020	500	D-21	4430

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 3.6/6kV

Cables conform to IEC 60502-2

3.8/6.6kV - THREE CORE-CU/XLPE/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -7.2kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

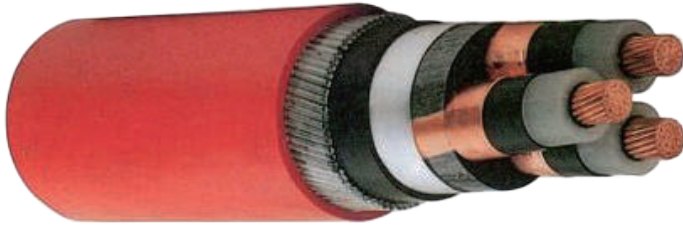
Nominal Area of Conductor	Maximum Conductor Resistance at 20 °C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Appro. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	2.5	0.4	2	2.3	43.9	3310	500	D-18	1900
50	0.387	2.5	0.4	2.5	2.4	47.5	4230	500	D-19	2440
70	0.268	2.5	0.6	2.5	2.5	51.1	5100	500	D-19	2870
95	0.193	2.5	0.6	2.5	2.7	56.2	6260	500	D-21	3550
120	0.153	2.5	0.6	2.5	2.8	59.7	7240	500	D-22	4090
150	0.124	2.5	0.6	2.5	2.9	62.9	8310	250	D-18	2320
185	0.0991	2.5	0.6	2.5	3	66.6	9570	250	D-18	2630
240	0.0754	2.6	0.6	2.5	3.2	72.8	11650	250	D-21	3330
300	0.0601	2.8	0.6	3.15	3.4	79.7	14740	250	D-23	4190
400	0.047	3	0.6	3.15	2.3	87.4	18020	250	D-23	5010

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 3.6/6kV

Cables conform to IEC 60502-2

## 3.8/6.6kV - THREE CORE-CU /XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -7.2kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx.- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	2.5	0.075	1.2	2	2.3	46.2	3820	500	D-18	2150
50	0.387	2.5	0.075	1.3	2.5	2.5	50.2	4830	500	D-19	2735
70	0.268	2.5	0.075	1.4	2.5	2.6	54.1	5770	500	D-21	3305
95	0.193	2.5	0.075	1.4	2.5	2.7	58.4	6910	500	D-22	3925
120	0.153	2.5	0.075	1.5	2.5	2.8	62	7950	500	D-23	4475
150	0.124	2.5	0.075	1.5	2.5	2.9	65.2	9050	500	D-23	5025
185	0.0991	2.5	0.075	1.6	2.5	3	69.1	10380	250	D-21	3015
240	0.0754	2.6	0.075	1.7	2.5	3.2	75.5	12600	250	D-21	3570
300	0.0601	2.8	0.075	1.8	3.15	3.5	82.8	15870	250	D-23	4470
400	0.047	3	0.075	2	3.15	3.8	90.9	19350	250	D-23	5340

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 3.6/6kV

Cables conform to IEC 60502-2

6.35/11kV - SINGLE CORE-CU/XLPE/AWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Area of Conductor	Maximum Conductor Resistance at 20 C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Appro. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	kg/Km	Metre±10%		KG
35	0.524	3.4	0.4	1.6	1.8	26	950	500	D-12	585
50	0.387	3.4	0.4	1.6	1.8	27	1110	500	D-12	660
70	0.268	3.4	0.4	1.6	1.8	28	1340	500	D-12	780
95	0.193	3.4	0.4	1.6	1.9	30.5	1670	500	D-14	985
120	0.153	3.4	0.4	1.6	1.9	32	1940	500	D-14	1120
150	0.124	3.4	0.4	1.6	2	33.6	2280	500	D-16	1350
185	0.0991	3.4	0.4	2	2	36	2730	500	D-18	1600
240	0.0754	3.4	0.4	2	2.1	39	3340	500	D-18	1910
300	0.0601	3.4	0.4	2	2.2	40.9	3990	500	D-18	2240
400	0.047	3.4	0.4	2	2.3	44	4930	500	D-18	2710
500	0.0366	3.4	0.4	2.5	2.4	48.2	6150	500	D-19	3390
630	0.0283	3.4	0.4	2.5	2.5	52.2	7560	500	D-19	4100

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

## 6.35/11kV - SINGLE CORE-CU/XLPE/CTS/PVC/AWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

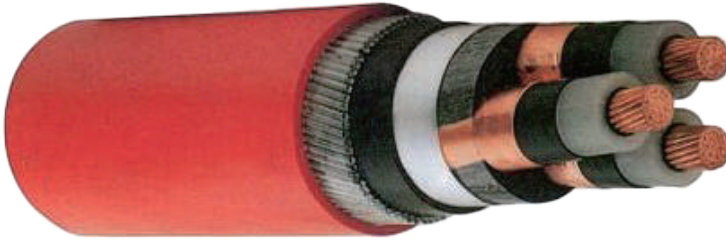
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	3.4	0.075	1.2	1.6	1.8	27.3	1130	500	D-12	675
50	0.387	3.4	0.075	1.2	1.6	1.8	28.4	1290	500	D-12	755
70	0.268	3.4	0.075	1.2	1.6	1.9	30.2	1560	500	D-14	930
95	0.193	3.4	0.075	1.2	1.6	1.9	32.1	1880	500	D-16	1150
120	0.153	3.4	0.075	1.2	1.6	2	33.8	2190	500	D-16	1330
150	0.124	3.4	0.075	1.2	2	2.1	36.2	2620	500	D-18	1550
185	0.0991	3.4	0.075	1.2	2	2.1	37.8	3000	500	D-18	1740
240	0.0754	3.4	0.075	1.2	2	2.2	40.5	3640	500	D-18	2060
300	0.0601	3.4	0.075	1.2	2	2.2	42.5	4290	500	D-18	2390
400	0.047	3.4	0.075	1.2	2	2.4	45.8	5270	500	D-19	2960
500	0.0366	3.4	0.075	1.3	2.5	2.5	50.2	6550	500	D-19	3660
630	0.0283	3.4	0.075	1.4	2.5	2.6	54.4	8020	500	D-21	4430

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

6.35/11kV - THREE CORE-CU/XLPE/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
COPPER CONDUCTOR XLPE INSULATED  
STEEL WIRE ARMoured  
PVC(PE) SHEATHED CABLES

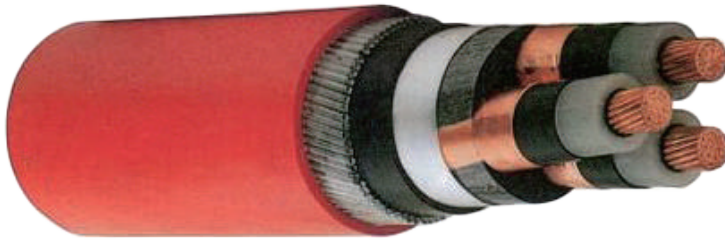
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	mm	mm	Metre±10%		KG
35	0.524	3.4	0.4	2.5	2.4	49	4060	500	D-19	2350
50	0.387	3.4	0.4	2.5	2.5	51.6	4640	500	D-19	2640
70	0.268	3.4	0.6	2.5	2.7	56	5630	500	D-21	3240
95	0.193	3.4	0.6	2.5	2.8	60.3	6720	500	D-22	3830
120	0.153	3.4	0.6	2.5	2.9	63.8	7720	500	D-18	2170
150	0.124	3.4	0.6	2.5	3	67	8800	500	D-18	2440
185	0.0991	3.4	0.6	2.5	3.1	70.7	10080	250	D-21	2940
240	0.0754	3.4	0.6	3.15	3.3	77.9	12960	250	D-21	3660
300	0.0601	3.4	0.6	3.15	3.5	82.5	15150	250	D-23	4290
400	0.047	3.4	0.6	3.15	3.7	89.1	18270	250	D-23	5070

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

## 6.35/11kV - THREE CORE - CU/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

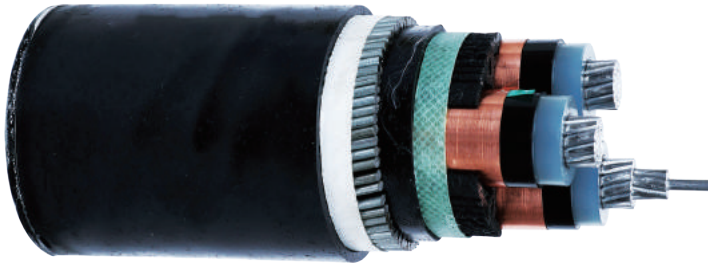
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	3.4	0.075	1.3	2.5	2.5	52	4700	500	D-19	2670
50	0.387	3.4	0.075	1.4	2.5	2.6	54.8	5300	500	D-21	3070
70	0.268	3.4	0.075	1.4	2.5	2.7	58.5	6240	500	D-22	3590
95	0.193	3.4	0.075	1.5	2.5	2.9	63.2	7460	500	D-23	4230
120	0.153	3.4	0.075	1.6	2.5	3	66.8	8530	500	D-23	4770
150	0.124	3.4	0.075	1.6	2.5	3.1	70	9650	500	D-23	5330
185	0.0991	3.4	0.075	1.7	2.5	3.2	73.9	11040	500	D-21	3180
240	0.0754	3.4	0.075	1.8	3.15	3.4	81.2	14060	250	D-23	4020
300	0.0601	3.4	0.075	1.9	3.15	3.6	86.1	16340	250	D-23	4590
400	0.047	3.4	0.075	2	3.15	3.8	93	19610	250	D-23	5400

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

6.35/11kV - THREE CORE-AL/XLPE/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
ALUMINIUM CONDUCTOR XLPE INSULATED  
STEEL WIRE ARMoured  
PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Metre±10%		KG
35	0.868	3.4	0.4	2.5	2.4	49	3440	500	D-19	2040
50	0.641	3.4	0.4	2.5	2.5	51.6	3790	500	D-19	2220
70	0.443	3.4	0.6	2.5	2.7	56.5	4430	500	D-21	2640
95	0.32	3.4	0.6	2.5	2.8	60.6	5050	500	D-22	3000
120	0.153	3.4	0.6	2.5	2.9	63.8	5550	500	D-23	3280
150	0.206	3.4	0.6	2.5	3	67	6070	500	D-23	3540
185	0.164	3.4	0.6	2.5	3.1	70.9	6740	250	D-21	2110
240	0.125	3.4	0.6	3.15	3.3	78	8590	250	D-21	2570
300	0.1	3.4	0.6	3.15	3.5	82.5	9640	250	D-23	2910
400	0.0778	3.4	0.6	3.15	3.7	89.6	11160	250	D-23	3290

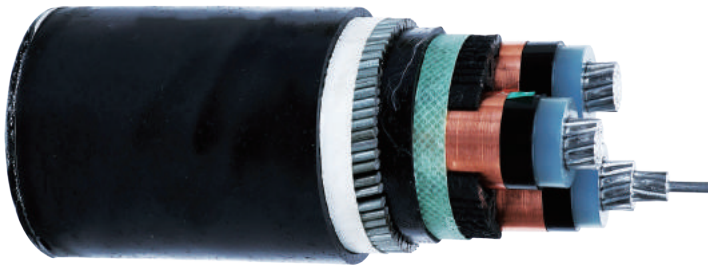
All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2



## 6.35/11kV - THREE CORE -AL/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -12kV)  
ALUMINIUM CONDUCTOR XLPE INSULATED  
STEEL WIRE ARMoured  
PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.868	3.4	0.075	13	2.5	2.5	52	4090	500	D-19	2370
50	0.641	3.4	0.075	14	2.5	2.6	54.8	4450	500	D-21	2650
70	0.443	3.4	0.075	14	2.5	2.7	58.9	5080	500	D-22	3010
95	0.32	3.4	0.075	15	2.5	2.9	63.4	5750	500	D-23	3380
120	0.253	3.4	0.075	16	2.5	3	66.8	6350	500	D-23	3680
150	0.206	3.4	0.075	16	2.5	3.1	70	6920	500	D-23	3960
185	0.164	3.4	0.075	17	2.5	3.2	74.1	7700	500	D-23	4350
240	0.125	3.4	0.075	18	3.15	3.4	81.4	9690	250	D-24	5450
300	0.1	3.4	0.075	19	3.15	3.6	86.1	10830	500	D-25-S	6170
400	0.0778	3.4	0.075	2	3.15	3.8	93.4	12500	250	D-23	3630

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

8.7/15kV - SINGLE CORE-AL/XLPE/AWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of SC Tape	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Metre±10%		KG
35	0.524	4.5	0.4	1.6	1.8	27.9	1050	500	D-12	635
50	0.387	4.5	0.4	1.6	1.8	29	1210	500	D-12	715
70	0.268	4.5	0.4	1.6	1.9	30.8	1470	500	D-14	885
95	0.193	4.5	0.4	1.6	1.9	32.7	1780	500	D-16	1100
120	0.153	4.5	0.4	2	2	35.2	2170	500	D-18	1330
150	0.153	4.5	0.4	2	2.1	36.8	2510	500	D-18	1550
185	0.0991	4.5	0.4	2	2.1	38.4	2890	500	D-18	1680
240	0.0754	4.5	0.4	2	2.2	41.4	3510	500	D-18	2000
300	0.0601	4.5	0.4	2	2.3	43.3	4170	500	D-18	2330
400	0.047	4.5	0.4	2.5	2.4	47.4	5240	500	D-19	2950
500	0.0366	4.5	0.4	2.5	2.5	50.6	6350	500	D-19	3500
630	0.0283	4.5	0.4	2.5	2.6	54.6	7780	500	D-21	4310

All conductors circular compacted.

Equivalent voltage designation as per IEC:60502 - 2: 6/10kV

Cables conform to IEC 60502-2

## 8.7/15kV - SINGLE CORE-CU/XLPE/CTS/PVC/AWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Outer Tape	Approx. Overall Diameter	Approx. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.524	4.5	0.075	1.8	23.7	835	500	D-12	520
50	0.387	4.5	0.075	1.8	24.8	980	500	D-12	600
70	0.268	4.5	0.075	1.8	26.4	1220	500	D-12	720
95	0.193	4.5	0.075	1.8	28.3	1520	500	D-12	870
120	0.153	4.5	0.075	1.9	30	1800	500	D-12	1010
150	0.124	4.5	0.075	1.9	31.4	2110	500	D-14	1210
185	0.0991	4.5	0.075	2	33.2	2480	500	D-16	1450
240	0.0754	4.5	0.075	2	35.7	3070	500	D-18	1780
300	0.0601	4.5	0.075	2.1	37.9	3700	500	D-18	2090
400	0.047	4.5	0.075	2.2	41	4620	500	D-18	2550
500	0.0366	4.5	0.075	2.3	44.2	5660	500	D-18	3070
630	0.0283	4.5	0.075	2.4	48.2	7040	500	D-19	3840

All conductors circular compacted.

Cables conform to IEC 60502-2

8.7/15KV - SINGLE CORE-CU/XLPE/CTS/PVC/AWA/PVC(PE)



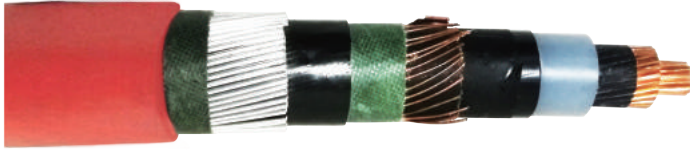
(HIGHEST SYSTEM VOLTAGE -17.5KV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx.- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	4.5	0.075	1.2	1.6	1.9	29.7	1270	500	D-12	745
50	0.387	4.5	0.075	1.2	1.6	1.9	30.8	1430	500	D-14	865
70	0.268	4.5	0.075	1.2	1.6	1.9	32.4	1700	500	D-16	1060
95	0.193	4.5	0.075	1.2	2	2	35.3	2130	500	D-18	1310
120	0.153	4.5	0.075	1.2	2	2.1	37	2440	500	D-18	1460
150	0.124	4.5	0.075	1.2	2	2.1	38.4	2780	500	D-18	1630
185	0.0991	4.5	0.075	1.2	2	2.2	40.2	3180	500	D-18	1830
240	0.0754	4.5	0.075	1.2	2	2.3	42.9	3840	500	D-18	2160
300		4.5	0.075	1.2	2	2.3	44.9	4490	500	D-18	2490
400	0.047	4.5	0.075	1.3	2.5	2.5	49.4	5660	500	D-19	3150
500	0.0366	4.5	0.075	1.3	2.5	2.6	52.6	6770	500	D-19	3710
630	0.0283	4.5	0.075	1.4	2.5	2.7	56.8	8280	500	D-21	4560

All conductors circular compacted.

Cables conform to IEC 60502-2

## 8.7/15KV - SINGLE CORE-CU/XLPE/CWS/LSZH/AWA/LSZH



(HIGHEST SYSTEM VOLTAGE -17.5KV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER WIRE AND TAPE SCREENED  
 LSZH INNER SHEATH  
 ALUMINIUM WIRE ARMoured  
 LSZH SHEATHED CABLE

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Area of Copper Wire and Tape	Thickness of Inner Sheath	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	4.5	35	1.2	1.6	1.9	30.8	1521	500	D-12	795
50	0.387	4.5	35	1.2	1.6	1.9	31.9	1677	500	D-14	965
70	0.268	4.5	35	1.2	1.6	1.9	33.8	1947	500	D-16	1160
95	0.193	4.5	35	1.2	2.0	2.0	36.4	2356	500	D-18	1410
120	0.153	4.5	35	1.2	2.0	2.1	38.0	2659	500	D-18	1660
150	0.124	4.5	35	1.2	2.0	2.1	39.6	2976	500	D-18	1730
185	0.0991	4.5	35	1.2	2.0	2.2	41.4	3400	500	D-18	1980
240	0.0754	4.5	35	1.2	2.0	2.3	43.8	4032	500	D-18	2360
300	0.0601	4.5	35	1.2	2.0	2.4	47.2	4840	500	D-18	2690
400	0.047	4.5	35	1.2	2.0	2.4	47.2	4840	500	D-18	3250
500	0.0366	4.5	35	1.3	2.5	2.6	54.5	7028	500	D-19	3910
630	0.0283	4.5	35	1.4	2.5	2.7	58.3	8502	500	D-21	4760

All conductors circular compacted.

Cables conform to IEC 60502-2

8.7/15kV - THREE CORE-CU/XLPE/CWS/LSZH/SWA/LSZH



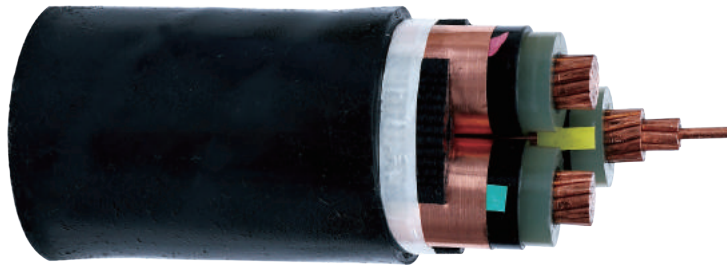
(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER WIRE AND TAPE SCREENED  
 LSZH INNER SHEATH  
 STEEL WIRE ARMoured  
 LSZH SHEATHED CABLE

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Area of Copper Wire and Tape	Thickness of Inner Sheath	Dia of Armour Wire	Thick ness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Pacing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	Sqmm	mm	mm	mm	mm	Kg/km	Metre±10%		KG
35	0.524	4.5	35	1.4	2.5	2.7	60.8	6480	500	D-22	3230
50	0.387	4.5	35	1.5	2.5	2.8	63.7	7103	500	D-22	3660
70	0.268	4.5	35	1.5	2.5	2.9	68.0	8123	500	D-23	4070
95	0.193	4.5	35	1.6	2.5	3.0	72.0	9231	500	D-23	4790
120	0.153	4.5	35	1.7	2.5	3.1	75.4	10343	500	D-23	5240
150	0.124	4.5	35	1.7	2.5	3.2	79.2	11537	500	D-23	5970
185	0.0991	4.5	35	1.8	3.15	3.4	84.6	13981	500	D-23	7040
240	0.0754	4.5	35	1.9	3.15	3.6	90.0	16186	500	D-25-S	8620
300	0.0601	4.5	35	2.0	3.15	3.7	95.3	18521	500	D-25-S	9870
400	0.047	4.5	35	2.1	3.15	4.0	102.3	21771	500	D-25-S	9480

All conductors circular compacted.

Cables conform to IEC 60502-2

## 8.7/15kV - THREE CORE-CU/XLPE/CTS/PVC(PE)



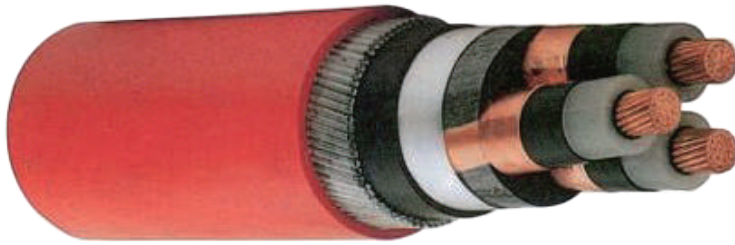
(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Outer Tape	Approx. Overall Diameter	Approx. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.524	4.5	0.075	2.5	49.4	2760	500	D-19	1700
50	0.387	4.5	0.075	2.6	52	3250	500	D-19	1950
70	0.268	4.5	0.075	2.7	55.6	4030	500	D-19	2440
95	0.193	4.5	0.075	2.8	58.3	5000	500	D-22	3440
120	0.153	4.5	0.075	2.9	60	5880	500	D-22	3440
150	0.124	4.5	0.075	3	61.4	6880	500	D-23	3940
185	0.0991	4.5	0.075	3.1	70.2	8030	500	D-23	4520
240	0.0754	4.5	0.075	3.3	76	9930	500	D-23	5470
300	0.0601	4.5	0.075	3.4	80.6	11890	500	D-23	6450
400	0.047	4.5	0.075	3.7	87.4	14800	250	D-23	4200

All conductors circular compacted.

Cables conform to IEC 60502-2

8.7/15kV - THREE CORE-CU/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

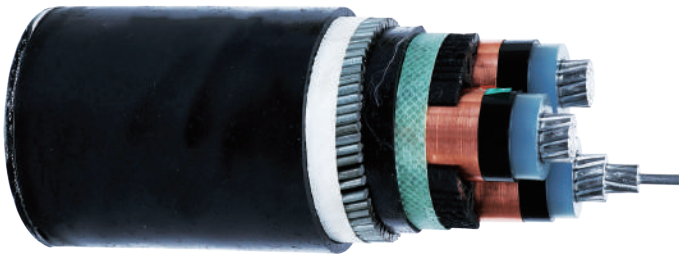
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.524	4.5	0.075	1.4	2.5	2.7	57.4	5320	500	D-22	3130
50	0.387	4.5	0.075	1.5	2.5	2.8	60.2	5980	500	D-22	3460
70	0.268	4.5	0.075	1.5	2.5	2.9	63.8	6940	500	D-23	3870
95	0.193	4.5	0.075	1.6	2.5	3	68.3	8170	500	D-23	4590
120	0.153	4.5	0.075	1.7	2.5	3.1	72	9270	500	D-23	5140
150	0.124	4.5	0.075	1.7	2.5	3.2	75.2	10410	500	D-23	5710
185	0.0991	4.5	0.075	1.8	3.15	3.4	80.5	12630	500	D-23	6820
240	0.0754	4.5	0.075	1.9	3.15	3.6	86.5	14930	500	D-25-S	8220
300	0.0601	4.5	0.075	2	3.15	3.7	91.3	17230	500	D-25-S	9370
400	0.047	4.5	0.075	2.1	3.15	4	98.3	5660	500	D-25-S	8980

All conductors circular compacted.

Cables conform to IEC 60502-2



## 8.7/15kV - THREE CORE-AL/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -17.5kV)  
 ALUMINIUM CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	Kg/Km	Metre±10%		KG
35	0.868	4.5	0.075	1.4	2.5	2.7	57.4	4710	500	D-19	2680
50	0.641	4.5	0.075	1.5	2.5	2.8	60.2	5130	500	D-22	3040
70	0.443	4.5	0.075	1.5	2.5	2.9	64.2	5740	500	D-23	3370
95	0.32	4.5	0.075	1.6	2.5	3	68.5	6460	500	D-23	3730
120	0.253	4.5	0.075	1.7	2.5	3.1	72	7100	500	D-23	4050
150	0.206	4.5	0.075	1.7	2.5	3.2	75.2	7680	500	D-23	4340
185	0.164	4.5	0.075	1.8	3.15	3.4	80.8	9370	500	D-23	5190
240	0.125	4.5	0.075	1.9	3.15	3.6	86.8	10580	500	D-25-S	6040
300	0.1	4.5	0.075	2	3.15	3.7	91.3	11720	500	D-25-S	6930
400	0.0778	4.5	0.075	2.1	3.15	4	98.8	13490	400	D-25-S	6150

All conductors circular compacted.

Cables conform to IEC 60502-2

12.7/22kV - SINGLE CORE-CU/XLPE/CTS/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -24kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 PVC(PE) SHEATHED CABLES

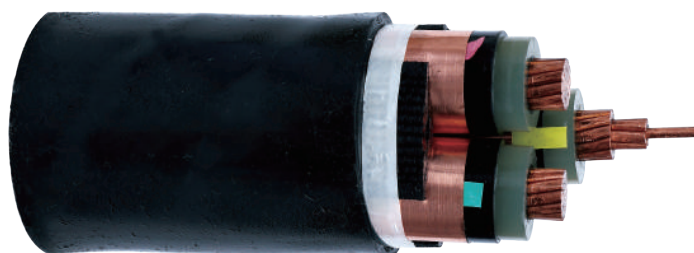
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Outer Tape	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.524	5.5	0.075	1.8	25.7	920	500	D-12	570
50	0.387	5.5	0.075	1.8	26.8	1070	500	D-12	645
70	0.268	5.5	0.075	1.8	28.4	1310	500	D-12	765
95	0.193	5.5	0.075	1.9	30.5	1630	500	D-14	965
120	0.153	5.5	0.075	1.9	32	1900	500	D-14	1100
150	0.124	5.5	0.075	2	33.6	2240	500	D-16	1330
185	0.0991	5.5	0.075	2	35.2	2600	500	D-18	1450
240	0.0754	5.5	0.075	2.1	37.9	3200	500	D-18	1780
300	0.0601	5.5	0.075	2.2	40.1	3850	500	D-18	2090
400	0.047	5.5	0.075	2.3	43.2	4770	500	D-18	2630
500	0.0366	5.5	0.075	2.4	46.4	5830	500	D-19	3240
630	0.0283	5.5	0.075	2.5	50.4	7220	500	D-19	3930

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 12/20kV

Cables conform to IEC 60502-2

## 12.7/22kV - THREE CORE-CU/XLPE/CTS/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -24KV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 PVC(PE) SHEATHED CABLES

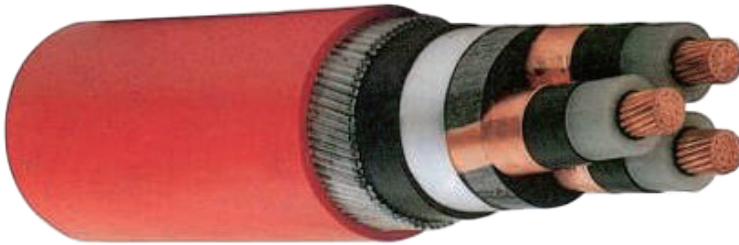
Nominal Area of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Outer Tape	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.524	5.5	0.075	2.6	53.9	3100	500	D-19	1870
50	0.387	5.5	0.075	2.7	56.5	3610	500	D-21	2130
70	0.268	5.5	0.075	2.8	60.1	4410	500	D-22	2630
95	0.193	5.5	0.075	2.9	64.4	5400	500	D-23	3170
120	0.153	5.5	0.075	3	67.9	6300	500	D-23	3650
150	0.124	5.5	0.075	3.1	71.1	7320	500	D-23	4160
185	0.0991	5.5	0.075	3.3	75	8540	500	D-23	4770
240	0.0754	5.5	0.075	3.4	80.6	10440	250	D-23	3110
300	0.0601	5.5	0.075	3.6	85.3	12450	250	D-23	3610
400	0.047	5.5	0.075	3.8	91.9	15370	250	D-23	3570

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 12/20kV

Cables conform to IEC 60502-2

12.7/22kV - THREE CORE-CU/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -24kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

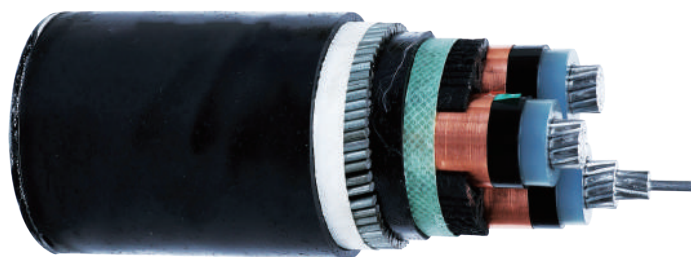
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded Bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.524	5.5	0.075	1.5	2.5	2.7	57.4	4710	500	D-19	2680
50	0.387	5.5	0.075	1.6	2.5	2.8	60.2	5130	500	D-22	3040
70	0.268	5.5	0.075	1.6	2.5	2.9	64.2	5740	500	D-23	3370
95	0.193	5.5	0.075	1.7	2.5	3.2	73.2	8870	500	D-23	4940
120	0.153	5.5	0.075	1.7	3.15	3.3	78	10730	250	D-21	3100
150	0.124	5.5	0.075	1.8	3.15	3.4	81.4	12000	250	D-23	3500
185	0.0991	5.5	0.075	1.9	3.15	3.6	85.5	13460	200	D-22	3160
240	0.0754	5.5	0.075	2	3.15	3.7	91.3	15780	200	D-23	3660
300	0.0601	5.5	0.075	2	3.15	3.9	96	18110	200	D-24	4220
400	0.047	5.5	0.075	2.2	3.15	4.1	103	21500	200	D-24	4900

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 12/20kV

Cables conform to IEC 60502-2

## 12.7/22kV - THREE CORE-AL/XLPE/CTS/PVC/SWA /PVC(PE)



(HIGHEST SYSTEM VOLTAGE -24kV)  
 ALUMINIUM CONDUCTOR XLPE  
 INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded Bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
35	0.868	5.5	0.075	1.5	2.5	2.8	57.4	4710	500	D-23	3150
50	0.641	5.5	0.075	1.6	2.5	2.9	60.2	5130	500	D-23	3370
70	0.443	5.5	0.075	1.6	2.5	2.9	64.2	5740	500	D-23	3710
95	0.32	5.5	0.075	1.7	2.5	3	73.5	7170	500	D-23	4090
120	0.253	5.5	0.075	1.7	3.15	3.3	78	8550	250	D-21	2560
150	0.206	5.5	0.075	1.8	3.15	3.4	81.4	9260	250	D-23	2820
185	0.164	5.5	0.075	1.9	3.15	3.6	85.7	10130	200	D-22	2500
240	0.125	5.5	0.075	2	3.15	3.7	91.5	11420	200	D-23	2780
300	0.1	5.5	0.075	2	3.15	3.9	96	12590	200	D-23	3020
400	0.0778	5.5	0.075	2.2	3.15	4.1	103.5	14410	200	D-23	3380

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 12/20kV

Cables conform to IEC 60502-2

19/33kV - SINGLE CORE-CU/XLPE/CTS/PVC/AWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -36KV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 ALUMINIUM WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

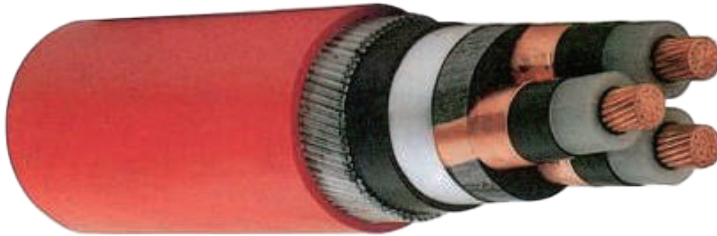
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded Bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
50	0.387	8	0.075	12	2	2.2	39.4	2050	500	D-18	1270
70	0.268	8	0.075	12	2	2.2	41	2330	500	D-18	1410
95	0.193	8	0.075	12	2	2.3	43.1	2710	500	D-18	1600
120	0.153	8	0.075	12	2	2.3	44.6	3020	500	D-18	1750
150	0.124	8	0.075	13	2.5	2.4	47.4	3570	500	D-19	2110
185	0.0991	8	0.075	13	2.5	2.5	49.2	3990	500	D-19	2320
240	0.0754	8	0.075	13	2.5	2.5	51.7	4670	500	D-19	2660
300	0.0601	8	0.075	14	2.5	2.6	54.1	5410	500	D-21	3130
400	0.047	8	0.075	14	2.5	2.7	57.2	6430	500	D-22	3690
500	0.0366	8	0.075	15	2.5	2.8	60.6	7620	500	D-22	4280
630	0.0283	8	0.075	16	2.5	2.9	64.8	8935	500	D-21-M	4890

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 18/30kV

Cables conform to IEC 60502-2

## 19/33kV - THREE CORE-CU/XLPE/CTS/PVC/SWA/PVC(PE)



(HIGHEST SYSTEM VOLTAGE -24kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

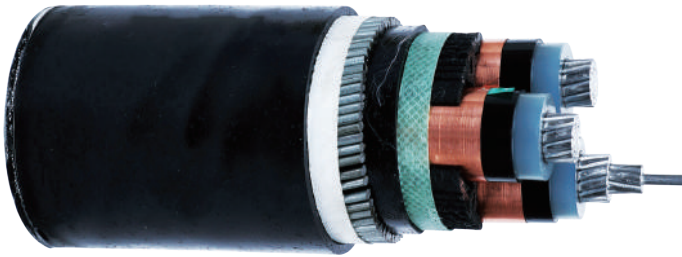
Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded Bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
50	0.387	8	0.075	1.8	3.15	3.4	78.8	9230	500	D-23	5120
70	0.268	8	0.075	1.8	3.15	3.5	82.5	10310	500	D-24	5760
95	0.193	8	0.075	1.9	3.15	3.6	87	11640	500	D-25-S	6570
120	0.153	8	0.075	2	3.15	3.7	90.6	12850	250	D-23	3710
150	0.124	8	0.075	2	3.15	3.8	93.8	14150	250	D-23	4040
185	0.0991	8	0.075	2.1	3.15	4	97.9	15700	250	D-23	4430
240	0.0754	8	0.075	2.2	3.15	4.1	104	18120	250	D-25	5280
300	0.0601	8	0.075	2.3	3.15	4.3	109	20570	200	D-25	4860

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 18/30kV

Cables conform to IEC 60502-2

19/33kV - THREE CORE-AL/XLPE/CTS/PVC/SWA /PVC(PE)



(HIGHEST SYSTEM VOLTAGE -36kV)  
 ALUMINIUM CONDUCTOR XLPE INSULATED  
 COPPER TAPE SCREENED  
 STEEL WIRE ARMoured  
 PVC(PE) SHEATHED CABLES

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Thickness of Copper Tape	Thickness of Extruded Bedding	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx- Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
50	0.641	8	0.075	1.8	3.15	3.4	78.8	8380	500	D-23	4690
70	0.443	8	0.075	1.8	3.15	3.5	82.9	9120	500	D-24	5160
95	0.32	8	0.075	1.9	3.15	3.6	87.2	10000	500	D-25-S	5750
120	0.253	8	0.075	2	3.15	3.7	90.6	10680	250	D-23	3170
150	0.206	8	0.075	2	3.15	3.8	93.8	11410	250	D-23	3350
185	0.164	8	0.075	2.1	3.15	4	98.1	12370	250	D-23	3590
240	0.125	8	0.075	2.2	3.15	4.1	104	13760	250	D-25	4190
300	0.1	8	0.075	2.3	3.15	4.3	109	15060	200	D-25	3760

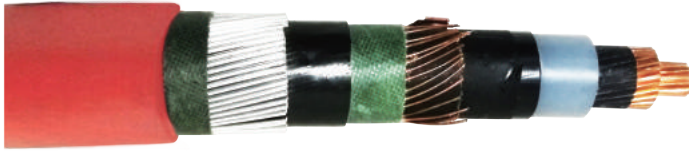
All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2: 18/30kV

Cables conform to IEC 60502-2



## 26/35kV - SINGLE CORE-CU/XLPE/CWS /LSZH/AWA/LSZH



(HIGHEST SYSTEM VOLTAGE -42kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER WIRE AND TAPE SCREENED  
 LSZH INNER SHEATH  
 ALUMINIUM WIRE ARMoured  
 LSZH SHEATHED CABLE

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Area of Copper Wire and Tape	Thickness of Inner Sheath	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
50	0.387	10.5	35	13	2.5	2.4	47.5	2922	500	D-18	1470
70	0.268	10.5	35	13	2.5	2.5	46.9	3269	500	D-18	1610
95	0.193	10.5	35	13	2.5	2.5	51.2	3616	500	D-18	1800
120	0.153	10.5	35	14	2.5	2.6	53.0	3989	500	D-18	1950
150	0.124	10.5	35	14	2.5	2.6	54.6	4347	500	D-19	2310
185	0.0991	10.5	35	14	2.5	2.7	56.4	4821	500	D-19	2520
240	0.0754	10.5	35	15	2.5	2.8	59.0	5547	500	D-19	2860
300	0.0601	10.5	35	15	2.5	2.8	61.2	6243	500	D-21	3380
400	0.047	10.5	35	16	2.5	3.0	64.6	7303	500	D-22	3890
500	0.0366	10.5	35	16	2.5	3.1	68.1	8554	500	D-22	4580
630	0.0283	10.5	35	17	2.5	3.2	71.9	10117	500	D-21-M	5490

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2

Cables conform to IEC 60502-2

26/35kV - THREE CORE-CU/XLPE/CWS/LSZH/SWA/LSZH



(HIGHEST SYSTEM VOLTAGE -42kV)  
 COPPER CONDUCTOR XLPE INSULATED  
 COPPER WIRE AND TAPE SCREENED  
 LSZH INNER SHEATH  
 STEEL WIRE ARMoured  
 LSZH SHEATHED CABLE

Nominal Areal of Conductor	Maximum Conductor Resistance at 20°C	Thickness of XLPE Insulation	Area of Inner Sheath	Thickness of Inner Sheath	Dia of Armour Wire	Thickness of Outer Sheath	Appro. Overall Diameter	Appro. Cable Weight	Standard Packing Length	Drum Size	Approx. Gross Weight
Sqmm	Ohm/Km	mm	mm	mm	mm	mm	mm	kg/km	Metre±10%		KG
50	0.387	10.5	35	2.0	3.15	3.8	95.7	12677	500	D-23	5620
70	0.268	10.5	35	2.0	3.15	3.9	99.5	13936	500	D-24	6360
95	0.193	10.5	35	2.1	3.15	4.1	103.6	15287	500	D-25-S	7170
120	0.153	10.5	35	2.2	3.15	4.2	107.1	16655	250	D-23	4310
150	0.124	10.5	35	2.2	3.15	4.3	110.8	17940	250	D-23	4540
185	0.0991	10.5	35	2.3	3.15	4.4	114.8	19561	250	D-23	4930
240	0.0754	10.5	35	2.4	3.15	4.6	120.2	22128	250	D-25	5780
300	0.0601	10.5	35	2.5	3.15	4.7	125.5	24569	200	D-25	5560

All conductors circular compacted.

Equivalent voltage designation as per IEC 60502-2

Cables conform to IEC 60502-2

## 3.8/6.6kv CABLES-A.C. RESISTANCE, REACTANCE AND CAPATANCE VALUES

Conductor	*Single Core Cables					3-Core Cables			
Size	A.C.Resistance at 90°C		Reactance(50HZ)		Capacitance	A.C.Resistance at 90°C		Reactance(50HZ)	Capacitance
	Copper	Aluminium	Trefoil	Flat*		Copper	Aluminium		
Sqmm	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\mu$ F/km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)
35	0.668	1.11	0.14	0.198	0.29	0.668	1.11	0.108	0.3
50	0.494	0.822	0.131	0.189	0.33	0.494	0.822	0.103	0.33
70	0.342	0.568	0.123	0.181	0.37	0.342	0.568	0.098	0.38
95	0.247	0.411	0.117	0.175	0.42	0.247	0.411	0.094	0.43
120	0.196	0.325	0.112	0.17	0.47	0.196	0.325	0.09	0.48
150	0.159	0.265	0.109	0.167	0.51	0.159	0.265	0.088	0.52
185	0.127	0.211	0.107	0.165	0.55	0.127	0.211	0.086	0.56
240	0.0974	0.161	0.103	0.161	0.6	0.0971	0.162	0.083	0.61
300	0.0782	0.129	0.101	0.159	0.61	0.0778	0.13	0.082	0.62
400	0.0621	0.101	0.097	0.156	0.64	0.0614	0.102	0.08	0.65
500	0.0495	0.0792	0.097	0.155	0.67	-	-	-	-
630	0.0398	0.0623	0.094	0.152	0.75	-	-	-	-

Twice Cable diameter spacing between centers.

6.35/11kV CABLES-A.C. RESISTANCE, REACTANCE AND CAPATANCE VALUES

Conductor  Size	*Single Core Cables					3-Core Cables			
	A.C.Resistance at 90°C		Reactance(50HZ)		Capacitance	A.C.Resistance at 90°C		Reactance(50HZ)	Capacitance
	Copper	Aluminium	Trefoil	Flat*		Copper	Aluminium		
Sqmm	(Ω/km)	(Ω/km)	(Ω/km)	(Ω/km)	(µF/km)	(Ω/km)	(Ω/km)	(Ω/km)	(Ω/km)
35	0.668	1.11	0.142	0.2	0.23	0.668	1.11	0.116	0.24
50	0.494	0.822	0.135	0.194	0.26	0.494	0.822	0.111	0.26
70	0.342	0.568	0.128	0.186	0.29	0.342	0.568	0.105	0.29
95	0.247	0.411	0.121	0.179	0.33	0.247	0.411	0.1	0.34
120	0.196	0.325	0.116	0.174	0.36	0.196	0.325	0.097	0.37
150	0.159	0.265	0.114	0.173	0.39	0.159	0.265	0.093	0.4
185	0.127	0.211	0.111	0.169	0.42	0.128	0.211	0.091	0.43
240	0.0973	0.161	0.106	0.164	0.47	0.097	0.161	0.087	0.48
300	0.0782	0.129	0.102	0.161	0.51	0.0778	0.129	0.085	0.52
400	0.062	0.101	0.099	0.157	0.57	0.0614	0.101	0.082	0.59
500	0.0494	0.0792	0.098	0.156	0.63	-	-	-	-
630	0.0396	0.0623	0.094	0.152	0.71	-	-	-	-

Twice Cable diameter spacing between centers.

## 8.7/15KV CABLES-A.C. RESISTANCE, REACTANCE AND CAPATANCE VALUES

Conductor  Size	*Single Core Cables					3-Core Cables			
	A.C.Resistance at 90°C		Reactance(50HZ)		Capacitance	A.C.Resistance at 90°C		Reactance(50HZ)	Capacitance
	Copper	Aluminium	Trefoil	Flat*		Copper	Aluminium		
Sqmm	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\mu$ F/km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)	( $\Omega$ /km)
35	0.668	1.11	0.147	0.206	0.19	0.668	1.11	0.124	0.19
50	0.494	0.822	0.131	0.199	0.21	0.494	0.822	0.119	0.21
70	0.342	0.568	0.133	0.191	0.23	0.342	0.568	0.112	0.24
95	0.247	0.411	0.128	0.185	0.26	0.247	0.411	0.106	0.27
120	0.196	0.325	0.122	0.18	0.29	0.196	0.325	0.102	0.29
150	0.159	0.265	0.118	0.176	0.31	0.159	0.265	0.099	0.31
185	0.127	0.211	0.115	0.173	0.33	0.128	0.211	0.096	0.34
240	0.0973	0.161	0.109	0.167	0.37	0.097	0.161	0.092	0.38
300	0.078	0.129	0.106	0.164	0.4	0.0778	0.129	0.09	0.41
400	0.0619	0.101	0.104	0.162	0.45	0.0614	0.101	0.086	0.46
500	0.0493	0.0792	0.101	0.159	0.5	-	-	-	-
630	0.0395	0.0622	0.097	0.155	0.55	-	-	-	-

Twice Cable diameter spacing between centers.

12.7/22kV CABLES-A.C. RESISTANCE, REACTANCE AND CAPATANCE VALUES

Conductor Size	*Single Core Cables					3-Core Cables			
	A.C.Resistance at 90°C		Reactance(50HZ)		Capacitance	A.C.Resistance at 90°C		Reactance(50HZ)	Capacitance
	Copper	Aluminium	Trefoil	Flat*		Copper	Aluminium		
Sqmm	(Ω/km)	(Ω/km)	(Ω/km)	(Ω/km)	(μF/km)	(Ω/km)	(Ω/km)	(Ω/km)	(Ω/km)
35	0.668	1.11	0.138	0.196	-	0.668	1.11	0.131	0.17
50	0.494	0.822	0.132	0.19	0.19	0.494	0.822	0.125	0.18
70	0.342	0.568	0.125	0.183	0.22	0.342	0.568	0.118	0.2
95	0.247	0.411	0.118	0.176	0.24	0.247	0.411	0.112	0.23
120	0.196	0.325	0.113	0.171	0.26	0.196	0.325	0.107	0.25
150	0.159	0.265	0.11	0.168	0.28	0.159	0.265	0.104	0.27
185	0.127	0.211	0.107	0.164	0.3	0.127	0.211	0.101	0.29
240	0.0974	0.161	0.102	0.16	0.34	0.097	0.161	0.096	0.32
300	0.0782	0.129	0.099	0.157	0.37	0.0778	0.129	0.093	0.35
400	0.0621	0.101	0.096	0.154	0.4	0.0614	0.101	0.09	0.39
500	0.0495	0.0791	0.093	0.151	0.44	-	-	-	-
630	0.0398	0.0621	0.09	0.148	0.49	-	-	-	-

Twice Cable diameter spacing between centers.

## CABLES LAID DIRECT IN GROUND-RATING FACTORS FOR VARIATION IN THERMAL RESISTIVITY OF SOIL (Average Values)

Size of cables sqmm	Soil thermal resistivity in k.m/w						
	0.8	0.9	1	1.5	2	2.5	3
Single core							
50	1.15	1.11	1.07	0.91	0.81	0.73	0.68
70	1.16	1.12	1.07	0.91	0.81	0.73	0.68
95	1.16	1.12	1.07	0.91	0.81	0.73	0.68
120	1.16	1.12	1.07	0.91	0.81	0.73	0.68
150	1.17	1.12	1.07	0.91	0.81	0.73	0.68
185	1.17	1.12	1.07	0.91	0.81	0.73	0.68
240	1.17	1.12	1.07	0.91	0.8	0.73	0.68
300	1.18	1.12	1.07	0.91	0.8	0.73	0.68
400	1.18	1.12	1.07	0.91	0.8	0.73	0.67
500	1.18	1.12	1.07	0.91	0.8	0.73	0.67
630	1.18	1.12	1.07	0.91	0.8	0.73	0.67
Multi core							
50	1.13	1.09	1.06	0.92	0.83	0.76	0.71
70	1.14	1.09	1.06	0.92	0.83	0.75	0.7
95	1.14	1.09	1.06	0.92	0.83	0.75	0.7
120	1.14	1.1	1.06	0.92	0.82	0.75	0.69
150	1.14	1.1	1.06	0.92	0.82	0.75	0.69
185	1.14	1.1	1.06	0.92	0.82	0.74	0.69
240	1.15	1.1	1.07	0.92	0.81	0.74	0.69
300	1.15	1.1	1.07	0.92	0.81	0.74	0.69
400	1.15	1.1	1.07	0.92	0.81	0.74	0.69

GROUP RATING FACTORS-GROUP RATING FACTING FOR CIRCUITS OF THREE SINGLE CORE CABLES IN TREFOIL AND LAID FLAT TOUCHING, HORIZONTAL FORMATION (Average Values)

	Number of Circuits	Spacing of circuits Touching					
		Trefoil	Laid flat	0.15m*	0.30m	0.45m	0.60m
12/20kv	2	0.78	0.81	0.81	0.85	0.88	0.9
	3	0.66	0.68	0.71	0.76	0.8	0.83
	4	0.59	0.62	0.65	0.72	0.76	0.8
	5	0.55	0.58	0.61	0.68	0.73	0.77
	6	0.52	0.55	0.58	0.66	0.72	0.76
18/30kv	2	0.79	0.81	0.81	0.85	0.88	0.9
	3	0.67	0.7	0.71	0.76	0.8	0.83
	4	0.62	0.65	0.65	0.72	0.76	0.8
	5	0.57	0.6	0.6	0.68	0.73	0.77
	6	0.54	0.57	0.57	0.66	0.72	0.76

\*This configuration, at 0.15m spacing, may not be practical for the larger size cables.



## GROUP TATING FACTOR FOR MULTICORE CABLES IN HORIZONTAL FORMATION

	Number of cables Group	Spacing				
		Touching	0.15m	0.30m	0.45m	0.60m
3.6/6kv to 12/20kv Cables	2	0.8	0.89	0.85	0.88	0.9
	3	0.68	0.75	0.80	0.84	0.86
	4	0.62	0.70	0.77	0.80	0.84
	5	0.57	0.66	0.73	0.78	0.81
	6	0.55	0.63	0.71	0.76	0.80
18/30kv Cables	2	0.8	0.83	0.87	0.89	0.91
	3	0.7	0.73	0.78	0.82	0.85
	4	0.64	0.68	0.74	0.78	0.82
	5	0.59	0.63	0.7	0.75	0.79
	6	0.56	0.6	0.68	0.74	0.78

12.7/22KV CABLES-A.C. RESISTANCE, REACTANCE AND CAPATANCE VALUES

Size of cables sqmm	Soil thermal resistivity in k.m/w						
	0.8	0.9	1	1.5	2	2.5	3
Single core							
50	1.08	1.06	1.04	0.94	0.87	0.82	0.77
70	1.09	1.06	1.04	0.94	0.87	0.81	0.76
95	1.09	1.06	1.04	0.94	0.87	0.81	0.76
120	1.10	1.07	1.04	0.94	0.86	0.80	0.75
150	1.10	1.07	1.04	0.94	0.86	0.80	0.75
185	1.17	1.12	1.07	0.93	0.86	0.79	0.75
240	1.11	1.07	1.04	0.93	0.86	0.79	0.74
300	1.11	1.08	1.05	0.93	0.85	0.79	0.74
400	1.11	1.08	1.05	0.93	0.85	0.78	0.73
500	1.11	1.08	1.05	0.93	0.85	0.78	0.73
600	1.12	1.08	1.05	0.93	0.84	0.78	0.72
Multi core							
50	1.05	1.03	1.02	0.96	0.91	0.87	0.83
70	1.05	1.04	1.02	0.96	0.91	0.86	0.82
95	1.06	1.04	1.02	0.96	0.91	0.86	0.82
120	1.06	1.04	1.03	0.95	0.90	0.85	0.81
150	1.06	1.04	1.03	0.95	0.90	0.85	0.80
185	1.07	1.05	1.03	0.95	0.89	0.84	0.80
240	1.07	1.05	1.03	0.95	0.89	0.84	0.79
300	1.07	1.05	1.03	0.95	0.88	0.83	0.78
400	1.07	1.05	1.03	0.95	0.88	0.83	0.78

GROUP RATING FACTORS-GROUP RATING FACTORS FOR SINGLE CORE CABLES IN TREFOIL SINGLE WAY DUCTS, HORIZONTAL FOEMATION (Average Value)

	Number of cables Group	Spacing		
		Touching	0.45m	0.60m
3.6/6kv to 12/20kv Cables	2	0.85	0.88	0.90
	3	0.75	0.88	0.83
	4	0.70	0.76	0.80
	5	0.67	0.73	0.77
	6	0.64	0.71	0.76
18/30kv Cables	2	0.85	0.88	0.90
	3	0.76	0.80	0.83
	4	0.71	0.76	0.80
	5	0.67	0.73	0.77
	6	0.65	0.71	0.76

CABLES INSTALLED IN SINGLE DUCTS-GROUP RATING FACTORS FOR MULTICORE CABLES IN SINGLE WAY DUCTS, HORIZONTAL FORMATION (Average Value)

	Ducts Number of In Ground	Spacing			
		Touching	Touching	0.45m	0.60m
3.6/6kv to 12/20kv Cables	2	0.88	0.91	0.93	0.94
	3	0.8	0.84	0.87	0.89
	4	0.75	0.81	0.84	0.87
	5	0.71	0.77	0.82	0.85
	6	0.69	0.75	0.80	0.84
18/30kv Cables	2	0.87	0.89	0.92	0.93
	3	0.78	0.82	0.85	0.87
	4	0.73	0.78	0.82	0.85
	5	0.69	0.75	0.79	0.83
	6	0.67	0.73	0.78	0.82

## DRUM SIZES AND DIMENSIONS

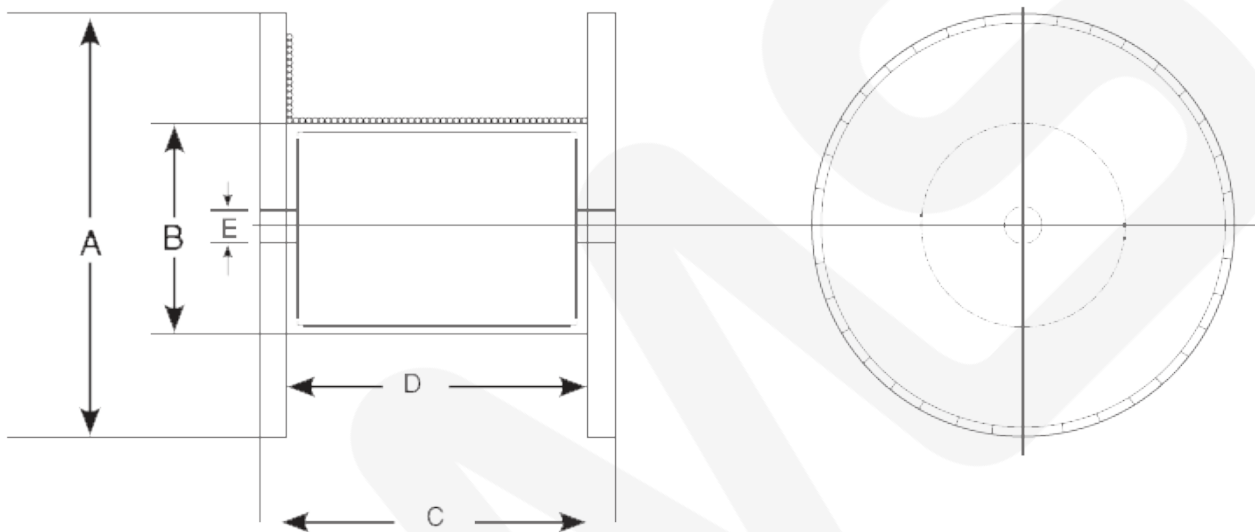
A - Flange diameter (Excluding Lagging), mm

B - Barrel diameter, mm

C - Overall width, mm

D - Traverse width, mm

E - Minimum spindle hole diameter, mm



## DIMENSIONS

Drum size	A	B	C	D	E
D-N0					
D-6	600	250	470	400	110
D-7	700	325	570	500	110
D-8	800	375	570	500	110
D-9	900	425	620	550	110
D-10	1000	500	690	600	110
D-11	1100	575	740	650	110
D-12	1200	675	950	850	110
D-14	1400	800	950	850	110
D-16	1600	950	970	850	110
D-18	1800	1100	1220	1100	110
D-19	1900	1100	1230	1100	110
D-20	2000	1300	1235	1100	110

## DRUM SIZES AND DIMENSIONS

## DIMENSIONS

Drum size	A	B	C	D	E
D-N0					
D-21	2100	1150	1290	1100	110
D-22	2200	1400	1390	1250	110
D-23	2340	1200	1795	1625	110
D-24	2400	1200	1795	1625	110
D-25-S	2540	1200	1825	1625	110
D-25	2540	1400	1800	1625	110
D-26	2600	1400	1970	1800	110

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

