www.hengtonggroup.com/en

Hengtong Optic-Electric Co., Ltd.
Stock Code: 600487
No. 2288, North Zhongshan Rd.,
Wujiang District, Suzhou City, Jiangsu Province, China
Website: www.hengtonggroup.com/en
Email: info@hengtonggroup.com
Tel: +86 512 6395 7850
Fax: +86 512 6395 7922

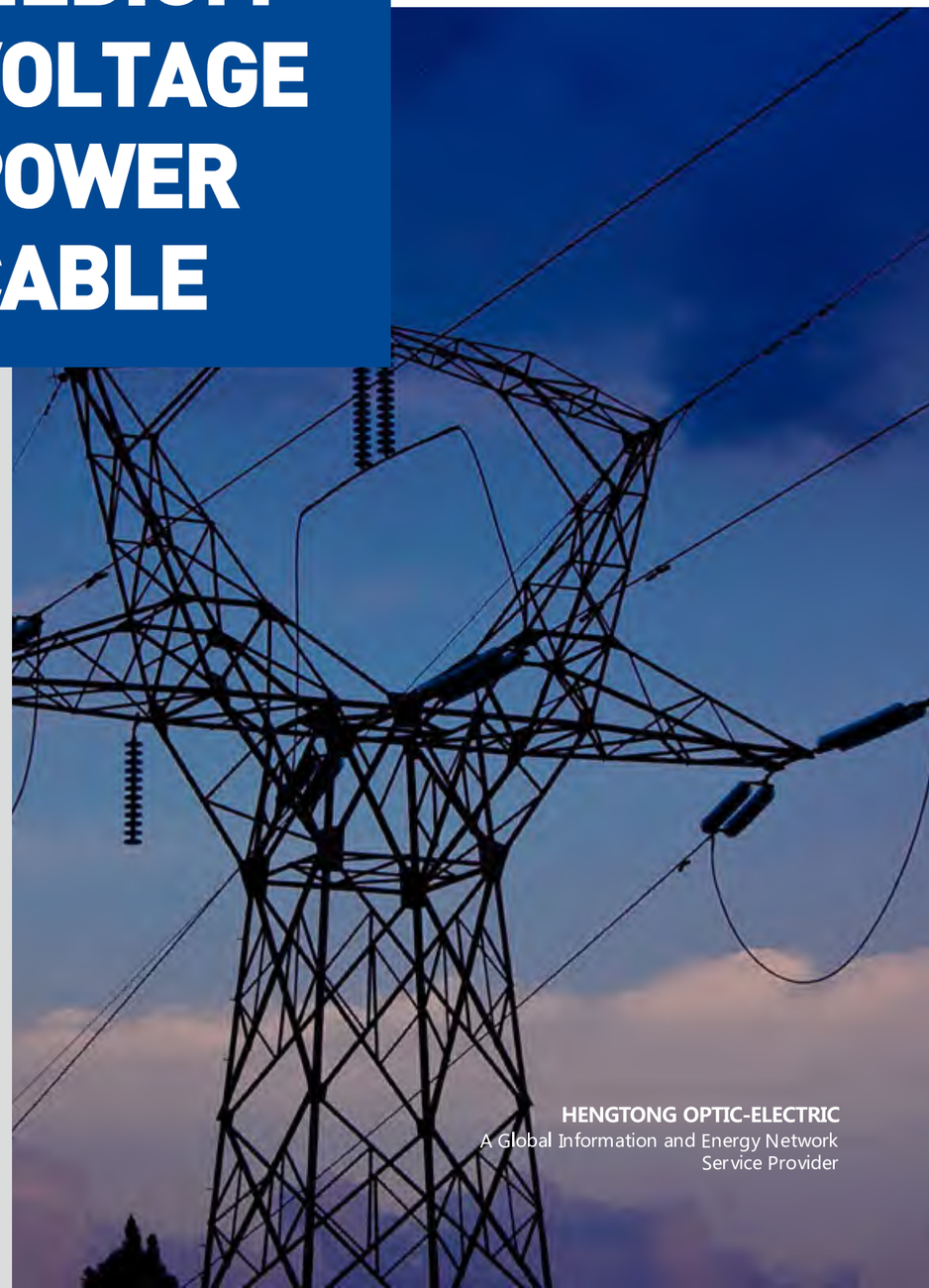
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Version: 2019-01

MEDIUM VOLTAGE POWER CABLE



HENGTONG OPTIC-ELECTRIC
A Global Information and Energy Network Service Provider



Introduction

Company introduction 01
Product overview 05
Global service network 57



A GLOBAL INFORMATION AND ENERGY NETWORK SERVICE PROVIDER

Mainly focusing on the fields of fiber-optic communications and electric power transmission, HENGTONG Optic-Electric has built up a full industry chain and self-developed core fiber-optic communications and quantum telecommunication technologies. Committed to building an integrated service provider of full value chains, the company has sought strategic development in marine engineering, quantum secure communications, big data and other high-end products and new fields, so as to create the advantageous full value chain of "product + operations + services". With industrial bases set up in 13 provinces in China and 9 areas abroad, HENGTONG has been one of the leading system integrators and ISPs (internet service providers) in the fields of fiber-optic network and electric power grid in China, and has been named among the "Top 500 Enterprises of China", the "Top 100 Private Enterprises of China", as well as the "Top 3 Enterprises of Global Fiber-optic Communications Enterprise".

Looking to the future, HENGTONG has achieved good market development around the world with focus on the Belt and Road Initiative. The company aims to become an internationally recognized high-tech corporate through an accelerated internationalization of production and globalization of operations. The company will fully promote four major industrial transformations, namely the transformation from an R&D manufacturer to an innovative enterprise, the transformation from a product supplier to an integrated whole value chain service provider, the transformation from a manufacturer to a platform service provider, and the transformation from a domestic company to an international one.

Contents

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor 05

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor 10

CU/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with copper conductor and aluminium wires armour 15

CU/XLPE/SCR/PVC/SWA/PVC
Three core XLPE Insulated cables with copper conductor and steel wires armour 20

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor 25

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor 30

AL/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour 35

AL/XLPE/SCR/PVC/AWA/PVC
Three core XLPE Insulated cables with aluminium conductor and steel wires armour 40

Recommended Multi Core Identification 45

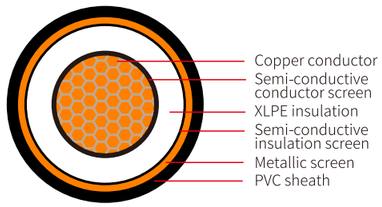
Maximum D.C. resistances of conductor at 20°C 46

Continuous current-carrying capacity, A 47

Calculations of the Current Rating based on the following standard operating conditions: 52

Rating Factors 52

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

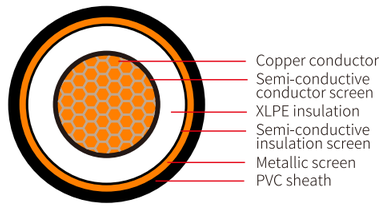
Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	2.5	18.3	418.9	1.15	1.47	2.3	0.53	0.238	0.433	1.1
1x25	6.0	2.5	19.5	529.8	0.727	0.927	3.6	0.53	0.272	0.403	1.7
1x35	7.0	2.5	20.7	649.1	0.524	0.668	5.0	0.53	0.301	0.385	2.4
1x50	8.1	2.5	21.8	786.0	0.387	0.494	7.2	0.53	0.332	0.367	3.4
1x70	9.8	2.5	23.7	1024.2	0.268	0.342	10.0	0.53	0.380	0.348	4.8
1x95	11.4	2.5	25.3	1299.5	0.193	0.247	13.6	0.53	0.425	0.332	6.5
1x120	12.9	2.5	27.0	1568.1	0.153	0.196	17.2	0.71	0.467	0.321	8.2
1x150	14.4	2.5	28.5	1854.2	0.124	0.159	21.5	0.71	0.509	0.311	10.2
1x185	16.0	2.5	30.3	2236.1	0.0991	0.128	26.5	0.71	0.554	0.303	12.6
1x240	18.4	2.6	33.1	2836.9	0.0754	0.0983	34.3	0.71	0.599	0.294	16.3
1x300	20.6	2.8	35.7	3464.7	0.0601	0.0794	42.9	0.71	0.616	0.287	20.4
1x400	23.4	3.0	39.3	4350.1	0.0470	0.0635	57.2	0.71	0.645	0.282	27.2
1x500	26.2	3.2	42.9	5471.4	0.0366	0.0512	71.5	0.71	0.674	0.278	34.0
1x630	29.8	3.2	46.9	6896.8	0.0283	0.0418	90.1	0.71	0.752	0.270	42.8

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

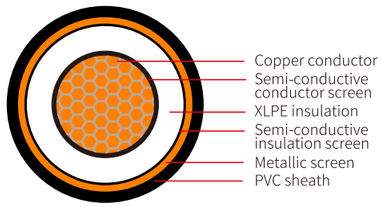
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	3.4	20.3	485.1	1.15	1.47	2.3	0.53	0.190	0.456	1.1
1x25	6.0	3.4	21.5	599.6	0.727	0.927	3.6	0.53	0.216	0.424	1.7
1x35	7.0	3.4	22.5	713.6	0.524	0.668	5.0	0.53	0.237	0.404	2.4
1x50	8.1	3.4	23.8	863.2	0.387	0.494	7.2	0.53	0.260	0.387	3.4
1x70	9.8	3.4	25.5	1096.6	0.268	0.342	10.0	0.53	0.295	0.364	4.8
1x95	11.4	3.4	27.3	1387.6	0.193	0.247	13.6	0.71	0.329	0.348	6.5
1x120	12.9	3.4	28.8	1649.4	0.153	0.196	17.2	0.71	0.360	0.335	8.2
1x150	14.4	3.4	30.5	1952.3	0.124	0.159	21.5	0.71	0.391	0.325	10.2
1x185	16.0	3.4	32.1	2326.4	0.0991	0.128	26.5	0.71	0.424	0.315	12.6
1x240	18.4	3.4	34.7	2923.6	0.0754	0.0982	34.3	0.71	0.473	0.304	16.3
1x300	20.6	3.4	37.1	3550.0	0.0601	0.0793	42.9	0.71	0.519	0.295	20.4
1x400	23.4	3.4	40.1	4400.4	0.0470	0.0634	57.2	0.71	0.576	0.286	27.2
1x500	26.2	3.4	43.4	5498.6	0.0366	0.0511	71.5	0.71	0.638	0.280	34.0
1x630	29.8	3.4	47.4	6926.3	0.0283	0.0418	90.1	0.71	0.712	0.272	42.8

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

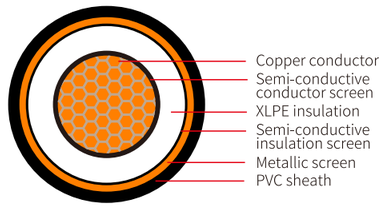
Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x25	6.0	4.5	23.9	691.3	0.727	0.927	3.6	0.53	0.177	0.448	1.7
1x35	7.0	4.5	24.9	808.9	0.524	0.668	5.0	0.53	0.193	0.426	2.4
1x50	8.1	4.5	26.2	963.6	0.387	0.494	7.2	0.71	0.210	0.408	3.4
1x70	9.8	4.5	27.9	1203.2	0.268	0.342	10.0	0.71	0.238	0.383	4.8
1x95	11.4	4.5	29.7	1501.2	0.193	0.247	13.6	0.71	0.263	0.366	6.5
1x120	12.9	4.5	31.2	1768.6	0.153	0.196	17.2	0.71	0.287	0.352	8.2
1x150	14.4	4.5	32.9	2078.0	0.124	0.159	21.5	0.71	0.310	0.341	10.2
1x185	16.0	4.5	34.5	2457.8	0.0991	0.128	26.5	0.71	0.335	0.330	12.6
1x240	18.4	4.5	37.1	3064.7	0.0754	0.0980	34.3	0.71	0.373	0.318	16.3
1x300	20.6	4.5	39.5	3700.2	0.0601	0.0791	42.9	0.71	0.407	0.308	20.4
1x400	23.4	4.5	42.5	4561.8	0.0470	0.0631	57.2	0.71	0.451	0.298	27.2
1x500	26.2	4.5	45.9	5672.2	0.0366	0.0508	71.5	0.71	0.498	0.291	34.0
1x630	29.8	4.5	49.9	7114.0	0.0283	0.0414	90.1	0.89	0.554	0.282	42.8

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

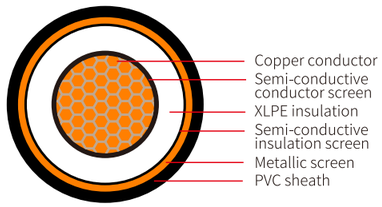
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x35	7.0	5.5	27.1	904.3	0.524	0.668	5.0	0.71	0.168	0.444	2.4
1x50	8.1	5.5	28.2	1051.8	0.387	0.494	7.2	0.71	0.182	0.423	3.4
1x70	9.8	5.5	30.1	1309.2	0.268	0.342	10.0	0.71	0.205	0.399	4.8
1x95	11.4	5.5	31.7	1599.9	0.193	0.247	13.6	0.71	0.226	0.380	6.5
1x120	12.9	5.5	33.4	1885.9	0.153	0.196	17.2	0.71	0.245	0.367	8.2
1x150	14.4	5.5	34.9	2186.2	0.124	0.159	21.5	0.71	0.265	0.354	10.2
1x185	16.0	5.5	36.7	2586.6	0.0991	0.128	26.5	0.71	0.285	0.343	12.6
1x240	18.4	5.5	39.3	3202.4	0.0754	0.0979	34.3	0.71	0.316	0.330	16.3
1x300	20.6	5.5	41.5	3828.2	0.0601	0.0789	42.9	0.71	0.345	0.319	20.4
1x400	23.4	5.5	44.6	4699.0	0.0470	0.0630	57.2	0.71	0.380	0.308	27.2
1x500	26.2	5.5	48.0	5818.8	0.0366	0.0506	71.5	0.89	0.419	0.300	34.0
1x630	29.8	5.5	52.0	7271.9	0.0283	0.0412	90.1	0.89	0.465	0.290	42.8

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

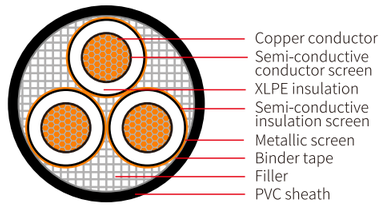
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and to flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x50	8.1	8.0	33.6	1326.6	0.387	0.494	7.2	0.71	0.142	0.461	3.4
1x70	9.8	8.0	35.5	1600.2	0.268	0.342	10.0	0.71	0.158	0.434	4.8
1x95	11.4	8.0	37.1	1903.9	0.193	0.247	13.6	0.71	0.173	0.414	6.5
1x120	12.9	8.0	38.8	2204.5	0.153	0.196	17.2	0.71	0.186	0.398	8.2
1x150	14.4	8.0	40.3	2517.2	0.124	0.159	21.5	0.71	0.200	0.384	10.2
1x185	16.0	8.0	42.1	2932.8	0.0991	0.128	26.5	0.71	0.214	0.372	12.6
1x240	18.4	8.0	44.6	3551.3	0.0754	0.0977	34.3	0.71	0.236	0.356	16.3
1x300	20.6	8.0	47.1	4214.4	0.0601	0.0786	42.9	0.71	0.256	0.344	20.4
1x400	23.4	8.0	50.3	5110.4	0.0470	0.0626	57.2	0.89	0.280	0.332	27.2
1x500	26.2	8.0	53.7	6257.1	0.0366	0.0502	71.5	0.89	0.307	0.322	34.0
1x630	29.8	8.0	57.6	7741.9	0.0283	0.0406	90.1	0.89	0.339	0.311	42.8

Note "*"：The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Color of core:** See "Recmommended Multi Core Identificatioan" Table
- **Colour of Sheath:**Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

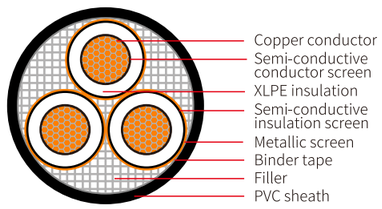
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	2.5	34.4	1311.3	1.15	1.47	2.3	1.34	0.238	0.388	3.3
3x25	6.0	2.5	37.2	1678.6	0.727	0.927	3.6	1.34	0.272	0.361	5.1
3x35	7.0	2.5	39.5	2044.3	0.524	0.668	5.0	1.34	0.301	0.344	7.1
3x50	8.1	2.5	42.1	2495.1	0.387	0.494	7.2	1.34	0.332	0.328	10.2
3x70	9.8	2.5	46.2	3238.9	0.268	0.342	10.0	1.34	0.380	0.310	14.3
3x95	11.4	2.5	50.0	4123.0	0.193	0.247	13.6	1.34	0.425	0.297	19.4
3x120	12.9	2.5	53.6	4957.2	0.153	0.196	17.2	1.78	0.467	0.287	24.5
3x150	14.4	2.5	57.2	5886.9	0.124	0.160	21.5	1.78	0.509	0.279	30.6
3x185	16.0	2.5	61.0	7069.5	0.0991	0.128	26.5	1.78	0.554	0.271	37.7
3x240	18.4	2.6	67.3	8977.2	0.0754	0.0988	34.3	1.78	0.599	0.264	49.0
3x300	20.6	2.8	73.6	11024.9	0.0601	0.0799	42.9	1.78	0.616	0.260	61.2
3x400	23.4	3.0	81.5	13828.4	0.0470	0.0642	57.2	1.78	0.645	0.255	81.6

Note "*"：The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Color of core:** See "Recmommended Multi Core Identificatioan" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

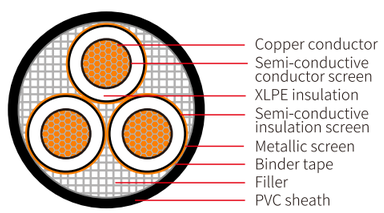
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	3.4	38.7	1545.5	1.15	1.47	2.3	1.34	0.190	0.414	3.3
3x25	6.0	3.4	41.5	1929.4	0.727	0.927	3.6	1.34	0.216	0.385	5.1
3x35	7.0	3.4	43.7	2290.0	0.524	0.668	5.0	1.34	0.237	0.366	7.1
3x50	8.1	3.4	46.4	2754.9	0.387	0.494	7.2	1.34	0.260	0.349	10.2
3x70	9.8	3.4	50.4	3515.2	0.268	0.342	10.0	1.34	0.295	0.329	14.3
3x95	11.4	3.4	54.5	4447.0	0.193	0.247	13.6	1.78	0.329	0.315	19.4
3x120	12.9	3.4	58.1	5301.3	0.153	0.196	17.2	1.78	0.360	0.303	24.5
3x150	14.4	3.4	61.7	6251.6	0.124	0.159	21.5	1.78	0.391	0.294	30.6
3x185	16.0	3.4	65.5	7455.5	0.0991	0.128	26.5	1.78	0.424	0.286	37.7
3x240	18.4	3.4	71.4	9359.4	0.0754	0.0986	34.3	1.78	0.473	0.275	49.0
3x300	20.6	3.4	76.5	11315.6	0.0601	0.0798	42.9	1.78	0.519	0.268	61.2
3x400	23.4	3.4	83.3	14013.6	0.0470	0.0641	57.2	1.78	0.576	0.260	81.6

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Color of core:** See "Recmommended Multi Core Identificatioan" Table
- **Colour of Sheath:**Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

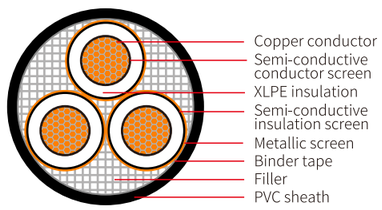
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x25	6.0	4.5	46.6	2238.7	0.727	0.927	3.6	1.34	0.177	0.411	5.1
3x35	7.0	4.5	49.1	2638.1	0.524	0.668	5.0	1.34	0.193	0.390	7.1
3x50	8.1	4.5	51.8	3117.0	0.387	0.494	7.2	1.78	0.210	0.372	10.2
3x70	9.8	4.5	55.9	3908.5	0.268	0.342	10.0	1.78	0.238	0.350	14.3
3x95	11.4	4.5	59.6	4837.3	0.193	0.247	13.6	1.78	0.263	0.334	19.4
3x120	12.9	4.5	63.3	5719.3	0.153	0.196	17.2	1.78	0.287	0.322	24.5
3x150	14.4	4.5	66.9	6686.3	0.124	0.159	21.5	1.78	0.310	0.311	30.6
3x185	16.0	4.5	70.9	7944.3	0.0991	0.128	26.5	1.78	0.335	0.302	37.7
3x240	18.4	4.5	76.5	9854.1	0.0754	0.0983	34.3	1.78	0.373	0.290	49.0
3x300	20.6	4.5	82.0	11884.5	0.0601	0.0795	42.9	1.78	0.407	0.282	61.2
3x400	23.4	4.5	88.7	14627.5	0.0470	0.0637	57.2	1.78	0.451	0.273	81.6

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Color of core:** See "Recmommended Multi Core Identificatioan" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

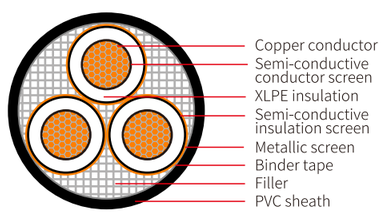
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x35	7.0	5.5	54.1	2987.9	0.524	0.668	5.0	1.78	0.168	0.410	7.1
3x50	8.1	5.5	56.7	3483.2	0.387	0.494	7.2	1.78	0.182	0.391	10.2
3x70	9.8	5.5	60.8	4299.5	0.268	0.342	10.0	1.78	0.205	0.368	14.3
3x95	11.4	5.5	64.6	5251.4	0.193	0.247	13.6	1.78	0.226	0.350	19.4
3x120	12.9	5.5	68.3	6155.6	0.153	0.196	17.2	1.78	0.245	0.337	24.5
3x150	14.4	5.5	71.8	7144.5	0.124	0.159	21.5	1.78	0.265	0.326	30.6
3x185	16.0	5.5	75.7	8401.5	0.0991	0.128	26.5	1.78	0.285	0.316	37.7
3x240	18.4	5.5	81.5	10371.6	0.0754	0.0982	34.3	1.78	0.316	0.303	49.0
3x300	20.6	5.5	86.7	12397.9	0.0601	0.0793	42.9	1.78	0.345	0.293	61.2
3x400	23.4	5.5	93.7	15219.8	0.0470	0.0635	57.2	1.78	0.380	0.283	81.6

Note "*"：The value is calculated base on copper tape.

CU/XLPE/SCR/PVC
Three core XLPE insulated cables with copper conductor



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Color of core:** See "Recmommended Multi Core Identificatioan" Table
- **Colour of Sheath:**Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

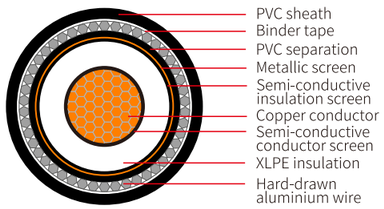
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x50	8.1	8.0	68.7	4476.3	0.387	0.494	7.2	1.78	0.142	0.432	10.2
3x70	9.8	8.0	72.8	5351.1	0.268	0.342	10.0	1.78	0.158	0.406	14.3
3x95	11.4	8.0	76.8	6390.8	0.193	0.247	13.6	1.78	0.173	0.386	19.4
3x120	12.9	8.0	80.3	7342.4	0.153	0.196	17.2	1.78	0.186	0.371	24.5
3x150	14.4	8.0	84.0	8391.6	0.124	0.159	21.5	1.78	0.200	0.358	30.6
3x185	16.0	8.0	87.8	9698.3	0.0991	0.128	26.5	1.78	0.214	0.346	37.7
3x240	18.4	8.0	93.5	11722.4	0.0754	0.0979	34.3	1.78	0.236	0.332	49.0
3x300	20.6	8.0	98.8	13857.3	0.0601	0.0789	42.9	1.78	0.256	0.320	61.2
3x400	23.4	8.0	105.6	16747.7	0.0470	0.0630	57.2	2.23	0.280	0.308	81.6

Note "*"：The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with copper conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

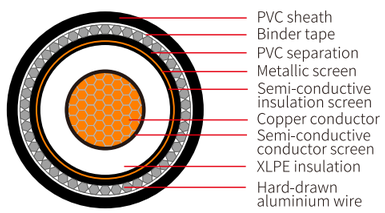
Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	2.5	25.3	768.3	1.15	1.47	2.3	0.53	0.238	0.505	2.2
1x25	6.0	2.5	26.5	906.8	0.727	0.927	3.6	0.53	0.272	0.470	2.4
1x35	7.0	2.5	27.5	1032.0	0.524	0.668	5.0	0.53	0.301	0.447	2.5
1x50	8.1	2.5	28.6	1189.2	0.387	0.494	7.2	0.53	0.332	0.426	2.7
1x70	9.8	2.5	30.3	1448.9	0.268	0.342	10.0	0.53	0.380	0.401	2.9
1x95	11.4	2.5	32.1	1767.3	0.193	0.247	13.6	0.53	0.425	0.383	3.1
1x120	12.9	2.5	33.6	2054.2	0.153	0.196	17.2	0.71	0.467	0.368	3.4
1x150	14.4	2.5	35.3	2384.2	0.124	0.159	21.5	0.71	0.509	0.356	3.6
1x185	16.0	2.5	37.9	2878.0	0.0991	0.128	26.5	0.71	0.554	0.350	4.8
1x240	18.4	2.6	40.5	3521.9	0.0754	0.0978	34.3	0.71	0.599	0.336	5.3
1x300	20.6	2.8	43.4	4224.5	0.0601	0.0788	42.9	0.71	0.616	0.328	5.8
1x400	23.4	3.0	47.1	5178.9	0.0470	0.0628	57.2	0.71	0.645	0.319	6.2
1x500	26.2	3.2	52.2	6540.0	0.0366	0.0503	71.5	0.71	0.674	0.317	8.6
1x630	29.8	3.2	56.4	8093.1	0.0283	0.0407	90.1	0.71	0.752	0.306	9.6

Note "*"：The value is calculated base on copper tape.

Medium Voltage Power Cable

CU/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with copper conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of Sheath:**Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

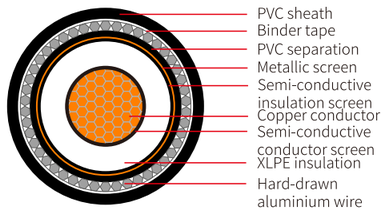
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	3.4	27.1	864.7	1.15	1.47	2.3	0.53	0.190	0.519	2.5
1x25	6.0	3.4	28.3	1000.5	0.727	0.927	3.6	0.53	0.216	0.484	2.7
1x35	7.0	3.4	29.3	1134.1	0.524	0.668	5.0	0.53	0.237	0.461	2.8
1x50	8.1	3.4	30.4	1294.3	0.387	0.494	7.2	0.53	0.260	0.440	3.0
1x70	9.8	3.4	32.3	1571.9	0.268	0.342	10.0	0.53	0.295	0.414	3.2
1x95	11.4	3.4	33.9	1881.8	0.193	0.247	13.6	0.71	0.329	0.394	3.5
1x120	12.9	3.4	36.4	2259.2	0.153	0.196	17.2	0.71	0.360	0.385	4.5
1x150	14.4	3.4	38.1	2595.8	0.124	0.159	21.5	0.71	0.391	0.372	4.8
1x185	16.0	3.4	39.7	3010.0	0.0991	0.128	26.5	0.71	0.424	0.360	5.1
1x240	18.4	3.4	42.3	3657.2	0.0754	0.0978	34.3	0.71	0.473	0.345	5.5
1x300	20.6	3.4	44.8	4332.1	0.0601	0.0787	42.9	0.71	0.519	0.334	5.9
1x400	23.4	3.4	49.2	5400.3	0.0470	0.0627	57.2	0.71	0.576	0.328	8.0
1x500	26.2	3.4	52.6	6584.8	0.0366	0.0502	71.5	0.71	0.638	0.318	8.8
1x630	29.8	3.4	56.8	8126.2	0.0283	0.0407	90.1	0.71	0.712	0.308	9.6

Note "*"：The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with copper conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

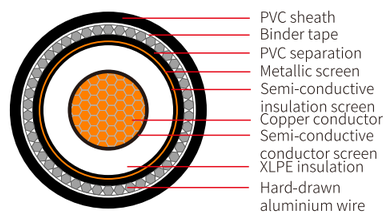
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x25	6.0	4.5	30.5	1123.3	0.727	0.927	3.6	0.53	0.177	0.500	3.0
1x35	7.0	4.5	31.7	1273.6	0.524	0.668	5.0	0.53	0.193	0.478	3.1
1x50	8.1	4.5	32.8	1437.7	0.387	0.494	7.2	0.71	0.210	0.456	3.3
1x70	9.8	4.5	34.7	1722.6	0.268	0.342	10.0	0.71	0.238	0.430	3.5
1x95	11.4	4.5	37.3	2129.2	0.193	0.247	13.6	0.71	0.263	0.415	4.7
1x120	12.9	4.5	38.8	2426.7	0.153	0.196	17.2	0.71	0.287	0.398	4.9
1x150	14.4	4.5	40.3	2761.5	0.124	0.159	21.5	0.71	0.310	0.384	5.3
1x185	16.0	4.5	42.1	3189.9	0.0991	0.128	26.5	0.71	0.335	0.372	5.5
1x240	18.4	4.5	44.8	3846.8	0.0754	0.0977	34.3	0.71	0.373	0.357	5.9
1x300	20.6	4.5	47.1	4519.3	0.0601	0.0786	42.9	0.71	0.407	0.344	6.4
1x400	23.4	4.5	51.8	5627.0	0.0470	0.0625	57.2	0.71	0.451	0.338	8.6
1x500	26.2	4.5	55.3	6831.2	0.0366	0.0500	71.5	0.71	0.498	0.328	9.2
1x630	29.8	4.5	59.3	8380.2	0.0283	0.0405	90.1	0.89	0.554	0.317	10.1

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/AWA/PVC
Single core XLPE Insulated cables with copper conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

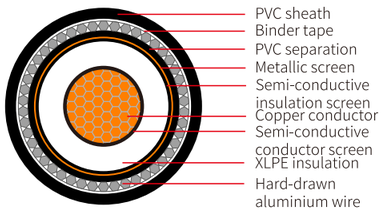
Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x35	7.0	5.5	33.7	1391.2	0.524	0.668	5.0	0.71	0.168	0.491	3.4
1x50	8.1	5.5	35.0	1573.5	0.387	0.494	7.2	0.71	0.182	0.470	3.5
1x70	9.8	5.5	37.7	1949.4	0.268	0.342	10.0	0.71	0.205	0.447	4.8
1x95	11.4	5.5	39.3	2271.1	0.193	0.247	13.6	0.71	0.226	0.426	5.0
1x120	12.9	5.5	41.0	2590.8	0.153	0.196	17.2	0.71	0.245	0.410	5.3
1x150	14.4	5.5	42.5	2921.4	0.124	0.159	21.5	0.71	0.265	0.395	5.5
1x185	16.0	5.5	44.4	3365.4	0.0991	0.127	26.5	0.71	0.285	0.383	5.9
1x240	18.4	5.5	46.9	4010.8	0.0754	0.0976	34.3	0.71	0.316	0.366	6.2
1x300	20.6	5.5	50.9	4890.5	0.0601	0.0785	42.9	0.71	0.345	0.360	8.4
1x400	23.4	5.5	54.1	5833.0	0.0470	0.0624	57.2	0.71	0.380	0.346	9.0
1x500	26.2	5.5	57.6	7063.2	0.0366	0.0499	71.5	0.89	0.419	0.337	9.8
1x630	29.8	5.5	61.8	8635.6	0.0283	0.0403	90.1	0.89	0.465	0.325	10.5

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with copper conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

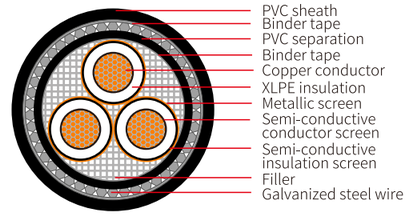
Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x50	8.1	8.0	41.2	2042.3	0.387	0.494	7.2	0.71	0.142	0.504	5.4
1x70	9.8	8.0	42.9	2332.5	0.268	0.342	10.0	0.71	0.158	0.474	5.6
1x95	11.4	8.0	44.8	2686.0	0.193	0.247	13.6	0.71	0.173	0.453	5.9
1x120	12.9	8.0	46.4	3009.2	0.153	0.196	17.2	0.71	0.186	0.435	6.2
1x150	14.4	8.0	49.5	3518.8	0.124	0.159	21.5	0.71	0.200	0.426	8.0
1x185	16.0	8.0	51.3	3980.4	0.0991	0.127	26.5	0.71	0.214	0.412	8.4
1x240	18.4	8.0	54.1	4685.3	0.0754	0.0975	34.3	0.71	0.236	0.394	9.0
1x300	20.6	8.0	56.6	5412.6	0.0601	0.0784	42.9	0.71	0.256	0.381	9.6
1x400	23.4	8.0	60.0	6406.2	0.0470	0.0622	57.2	0.89	0.280	0.367	10.1
1x500	26.2	8.0	63.3	7639.8	0.0366	0.0496	71.5	0.89	0.307	0.355	10.9
1x630	29.8	8.0	67.7	9275.8	0.0283	0.0399	90.1	0.89	0.339	0.343	11.7

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core:** See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

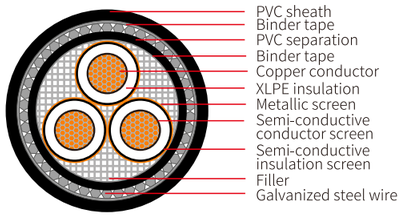
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	2.5	42.0	2813.5	1.15	1.47	2.3	1.34	0.238	0.388	14.8
3x25	6.0	2.5	44.9	3310.1	0.727	0.927	3.6	1.34	0.272	0.361	16.2
3x35	7.0	2.5	48.6	4122.4	0.524	0.668	5.0	1.34	0.301	0.344	21.1
3x50	8.1	2.5	51.3	4720.6	0.387	0.494	7.2	1.34	0.332	0.328	22.7
3x70	9.8	2.5	55.7	5726.4	0.268	0.342	10.0	1.34	0.380	0.310	25.3
3x95	11.4	2.5	59.6	6834.9	0.193	0.247	13.6	1.34	0.425	0.297	27.3
3x120	12.9	2.5	63.4	7892.5	0.153	0.196	17.2	1.78	0.467	0.287	29.4
3x150	14.4	2.5	67.3	9049.7	0.124	0.160	21.5	1.78	0.509	0.279	31.4
3x185	16.0	2.5	71.1	10435.6	0.0991	0.128	26.5	1.78	0.554	0.271	33.5
3x240	18.4	2.6	79.0	13507.4	0.0754	0.0988	34.3	1.78	0.599	0.264	46.6
3x300	20.6	2.8	85.5	15985.0	0.0601	0.0799	42.9	1.78	0.616	0.260	50.7
3x400	23.4	3.0	93.8	19412.1	0.0470	0.0642	57.2	1.78	0.645	0.255	56.5

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/SWA/PVC
Three core XLPE Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

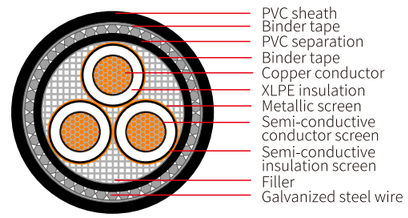
Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	3.4	46.5	3217.2	1.15	1.47	2.3	1.34	0.190	0.414	16.5
3x25	6.0	3.4	50.7	4149.8	0.727	0.927	3.6	1.34	0.216	0.385	22.7
3x35	7.0	3.4	53.1	4633.1	0.524	0.668	5.0	1.34	0.237	0.366	23.7
3x50	8.1	3.4	56.1	5268.5	0.387	0.494	7.2	1.34	0.260	0.349	25.3
3x70	9.8	3.4	60.3	6295.6	0.268	0.342	10.0	1.34	0.295	0.329	27.8
3x95	11.4	3.4	64.2	7406.5	0.193	0.247	13.6	1.78	0.329	0.315	29.9
3x120	12.9	3.4	67.9	8486.1	0.153	0.196	17.2	1.78	0.360	0.303	32.0
3x150	14.4	3.4	71.6	9637.2	0.124	0.159	21.5	1.78	0.391	0.294	34.0
3x185	16.0	3.4	75.6	11073.2	0.0991	0.128	26.5	1.78	0.424	0.286	36.1
3x240	18.4	3.4	83.3	14165.8	0.0754	0.0986	34.3	1.78	0.473	0.275	49.1
3x300	20.6	3.4	88.6	16540.6	0.0601	0.0798	42.9	1.78	0.519	0.268	53.2
3x400	23.4	3.4	95.8	19789.5	0.0470	0.0641	57.2	1.78	0.576	0.260	58.1

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

CU/XLPE/SCR/PVC/SWA/PVC
Three core XLPE Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

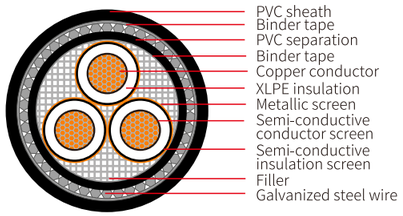
Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x25	6.0	4.5	56.1	4729.9	0.727	0.927	3.6	1.34	0.177	0.411	25.3
3x35	7.0	4.5	58.6	5276.0	0.524	0.668	5.0	1.34	0.193	0.390	26.8
3x50	8.1	4.5	61.4	5926.8	0.387	0.494	7.2	1.78	0.210	0.372	28.3
3x70	9.8	4.5	65.7	6947.5	0.268	0.342	10.0	1.78	0.238	0.350	30.4
3x95	11.4	4.5	69.7	8108.0	0.193	0.247	13.6	1.78	0.263	0.334	32.5
3x120	12.9	4.5	73.6	9222.0	0.153	0.196	17.2	1.78	0.287	0.322	34.5
3x150	14.4	4.5	78.5	11147.1	0.124	0.159	21.5	1.78	0.310	0.311	45.8
3x185	16.0	4.5	82.7	12745.2	0.0991	0.128	26.5	1.78	0.335	0.302	49.1
3x240	18.4	4.5	88.6	15079.1	0.0754	0.0983	34.3	1.78	0.373	0.290	53.2
3x300	20.6	4.5	94.3	17474.4	0.0601	0.0795	42.9	1.78	0.407	0.282	56.5
3x400	23.4	4.5	101.2	20731.9	0.0470	0.0637	57.2	1.78	0.451	0.273	61.4

Note "*" : The value is calculated base on copper tape.

CU/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core:** See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

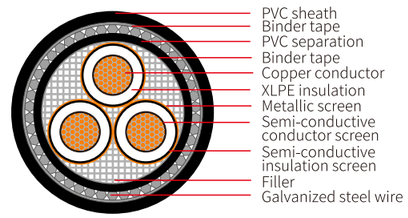
No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x35	7.0	5.5	63.7	5902.7	0.524	0.668	5.0	1.78	0.168	0.410	29.4
3x50	8.1	5.5	66.6	6573.3	0.387	0.494	7.2	1.78	0.182	0.391	30.9
3x70	9.8	5.5	70.7	7594.3	0.268	0.342	10.0	1.78	0.205	0.368	33.0
3x95	11.4	5.5	74.7	8818.9	0.193	0.247	13.6	1.78	0.226	0.350	35.6
3x120	12.9	5.5	80.1	10795.3	0.153	0.196	17.2	1.78	0.245	0.337	47.5
3x150	14.4	5.5	83.7	12020.4	0.124	0.159	21.5	1.78	0.265	0.326	49.9
3x185	16.0	5.5	87.8	13552.1	0.0991	0.128	26.5	1.78	0.285	0.316	52.4
3x240	18.4	5.5	93.8	15955.3	0.0754	0.0982	34.3	1.78	0.316	0.303	56.5
3x300	20.6	5.5	99.2	18410.7	0.0601	0.0793	42.9	1.78	0.345	0.293	60.6
3x400	23.4	5.5	106.4	21692.8	0.0470	0.0635	57.2	1.78	0.380	0.283	64.6

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

CU/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

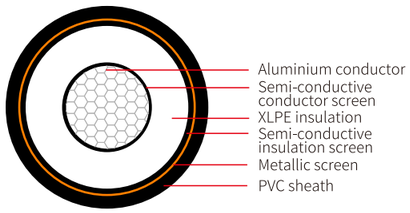
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x50	8.1	8.0	80.5	9120.5	0.387	0.494	7.2	1.78	0.142	0.432	47.5
3x70	9.8	8.0	84.8	10336.0	0.268	0.342	10.0	1.78	0.158	0.406	50.7
3x95	11.4	8.0	88.8	11621.1	0.193	0.247	13.6	1.78	0.173	0.386	53.2
3x120	12.9	8.0	92.6	12847.7	0.153	0.196	17.2	1.78	0.186	0.371	55.6
3x150	14.4	8.0	96.3	14137.4	0.124	0.159	21.5	1.78	0.200	0.358	58.1
3x185	16.0	8.0	100.3	15726.4	0.0991	0.128	26.5	1.78	0.214	0.346	60.6
3x240	18.4	8.0	106.4	18236.0	0.0754	0.0979	34.3	1.78	0.236	0.332	64.6
3x300	20.6	8.0	111.7	20767.9	0.0601	0.0789	42.9	1.78	0.256	0.320	68.7
3x400	23.4	8.0	119.0	24242.2	0.0470	0.0630	57.2	2.23	0.280	0.308	73.6

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

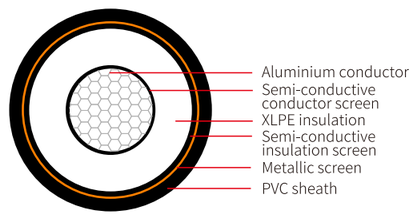
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	2.5	18.3	320.1	1.91	2.45	1.5	0.53	0.238	0.433	0.6
1x25	6.0	2.5	19.5	374.3	1.20	1.54	2.4	0.53	0.272	0.403	1.0
1x35	7.0	2.5	20.7	433.1	0.868	1.11	3.3	0.53	0.301	0.385	1.4
1x50	8.1	2.5	21.8	493.6	0.641	0.822	4.7	0.53	0.332	0.367	2.0
1x70	9.8	2.5	23.7	602.2	0.443	0.568	6.6	0.53	0.380	0.348	2.7
1x95	11.4	2.5	25.3	712.8	0.320	0.411	9.0	0.53	0.425	0.332	3.7
1x120	12.9	2.5	27.0	828.9	0.253	0.325	11.3	0.71	0.467	0.321	4.7
1x150	14.4	2.5	28.5	940.3	0.206	0.265	14.2	0.71	0.509	0.311	5.9
1x185	16.0	2.5	30.3	1094.4	0.164	0.211	17.5	0.71	0.554	0.303	7.2
1x240	18.4	2.6	33.1	1335.2	0.125	0.162	22.7	0.71	0.599	0.294	9.4
1x300	20.6	2.8	35.7	1577.8	0.100	0.130	28.3	0.71	0.616	0.287	11.7
1x400	23.4	3.0	39.3	1942.6	0.0778	0.102	37.8	0.71	0.645	0.282	15.6
1x500	26.2	3.2	42.9	2381.6	0.0605	0.0805	47.2	0.71	0.674	0.278	19.5
1x630	29.8	3.2	46.9	2896.5	0.0469	0.0640	59.5	0.71	0.752	0.270	24.6

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

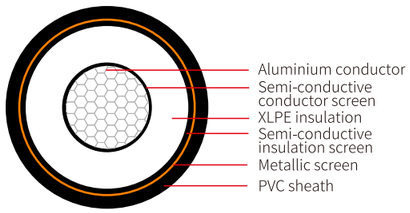
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	3.4	20.3	386.3	1.91	2.45	1.5	0.53	0.190	0.456	0.6
1x25	6.0	3.4	21.5	444.1	1.20	1.54	2.4	0.53	0.216	0.424	1.0
1x35	7.0	3.4	22.5	497.6	0.868	1.11	3.3	0.53	0.237	0.404	1.4
1x50	8.1	3.4	23.8	570.8	0.641	0.822	4.7	0.53	0.260	0.387	2.0
1x70	9.8	3.4	25.5	674.6	0.443	0.568	6.6	0.53	0.295	0.364	2.7
1x95	11.4	3.4	27.3	800.9	0.320	0.411	9.0	0.71	0.329	0.348	3.7
1x120	12.9	3.4	28.8	910.2	0.253	0.325	11.3	0.71	0.360	0.335	4.7
1x150	14.4	3.4	30.5	1038.4	0.206	0.265	14.2	0.71	0.391	0.325	5.9
1x185	16.0	3.4	32.1	1184.7	0.164	0.211	17.5	0.71	0.424	0.315	7.2
1x240	18.4	3.4	34.7	1421.9	0.125	0.162	22.7	0.71	0.473	0.304	9.4
1x300	20.6	3.4	37.1	1663.1	0.100	0.130	28.3	0.71	0.519	0.295	11.7
1x400	23.4	3.4	40.1	1992.9	0.0778	0.102	37.8	0.71	0.576	0.286	15.6
1x500	26.2	3.4	43.4	2408.8	0.0605	0.0804	47.2	0.71	0.638	0.280	19.5
1x630	29.8	3.4	47.4	2926.0	0.0469	0.0639	59.5	0.71	0.712	0.272	24.6

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

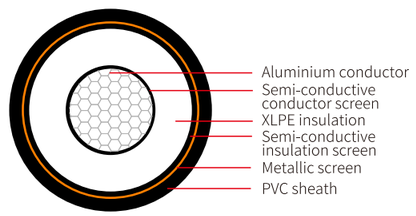
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x25	6.0	4.5	23.9	535.8	1.20	1.54	2.4	0.53	0.177	0.448	1.0
1x35	7.0	4.5	24.9	592.9	0.868	1.11	3.3	0.53	0.193	0.426	1.4
1x50	8.1	4.5	26.2	671.2	0.641	0.822	4.7	0.71	0.210	0.408	2.0
1x70	9.8	4.5	27.9	781.2	0.443	0.568	6.6	0.71	0.238	0.383	2.7
1x95	11.4	4.5	29.7	914.5	0.320	0.411	9.0	0.71	0.263	0.366	3.7
1x120	12.9	4.5	31.2	1029.4	0.253	0.325	11.3	0.71	0.287	0.352	4.7
1x150	14.4	4.5	32.9	1164.1	0.206	0.265	14.2	0.71	0.310	0.341	5.9
1x185	16.0	4.5	34.5	1316.1	0.164	0.211	17.5	0.71	0.335	0.330	7.2
1x240	18.4	4.5	37.1	1563.0	0.125	0.161	22.7	0.71	0.373	0.318	9.4
1x300	20.6	4.5	39.5	1813.3	0.100	0.130	28.3	0.71	0.407	0.308	11.7
1x400	23.4	4.5	42.5	2154.3	0.0778	0.102	37.8	0.71	0.451	0.298	15.6
1x500	26.2	4.5	45.9	2582.4	0.0605	0.0802	47.2	0.71	0.498	0.291	19.5
1x630	29.8	4.5	49.9	3113.7	0.0469	0.0637	59.5	0.89	0.554	0.282	24.6

Note "*"：The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: : 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

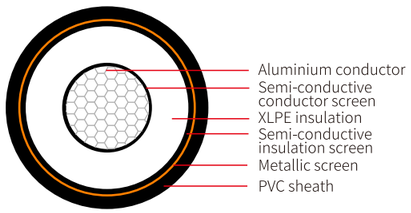
Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x35	7.0	5.5	27.1	688.3	0.868	1.11	3.3	0.71	0.168	0.444	1.4
1x50	8.1	5.5	28.2	759.4	0.641	0.822	4.7	0.71	0.182	0.423	2.0
1x70	9.8	5.5	30.1	887.2	0.443	0.568	6.6	0.71	0.205	0.399	2.7
1x95	11.4	5.5	31.7	1013.2	0.320	0.411	9.0	0.71	0.226	0.380	3.7
1x120	12.9	5.5	33.4	1146.7	0.253	0.325	11.3	0.71	0.245	0.367	4.7
1x150	14.4	5.5	34.9	1272.3	0.206	0.265	14.2	0.71	0.265	0.354	5.9
1x185	16.0	5.5	36.7	1444.9	0.164	0.211	17.5	0.71	0.285	0.343	7.2
1x240	18.4	5.5	39.3	1700.7	0.125	0.161	22.7	0.71	0.316	0.330	9.4
1x300	20.6	5.5	41.5	1941.3	0.100	0.130	28.3	0.71	0.345	0.319	11.7
1x400	23.4	5.5	44.6	2291.5	0.0778	0.102	37.8	0.71	0.380	0.308	15.6
1x500	26.2	5.5	48.0	2729.0	0.0605	0.0801	47.2	0.89	0.419	0.300	19.5
1x630	29.8	5.5	52.0	3271.6	0.0469	0.0635	59.5	0.89	0.465	0.290	24.6

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 20 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

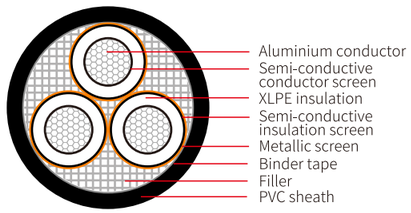
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x50	8.1	8.0	33.6	1034.2	0.641	0.822	4.7	0.71	0.142	0.461	2.0
1x70	9.8	8.0	35.5	1178.2	0.443	0.568	6.6	0.71	0.158	0.434	2.7
1x95	11.4	8.0	37.1	1317.2	0.320	0.411	9.0	0.71	0.173	0.414	3.7
1x120	12.9	8.0	38.8	1465.3	0.253	0.325	11.3	0.71	0.186	0.398	4.7
1x150	14.4	8.0	40.3	1603.3	0.206	0.265	14.2	0.71	0.200	0.384	5.9
1x185	16.0	8.0	42.1	1791.1	0.164	0.211	17.5	0.71	0.214	0.372	7.2
1x240	18.4	8.0	44.6	2049.6	0.125	0.161	22.7	0.71	0.236	0.356	9.4
1x300	20.6	8.0	47.1	2327.5	0.100	0.129	28.3	0.71	0.256	0.344	11.7
1x400	23.4	8.0	50.3	2702.9	0.0778	0.101	37.8	0.89	0.280	0.332	15.6
1x500	26.2	8.0	53.7	3167.3	0.0605	0.0798	47.2	0.89	0.307	0.322	19.5
1x630	29.8	8.0	57.6	3741.6	0.0469	0.0631	59.5	0.89	0.339	0.311	24.6

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

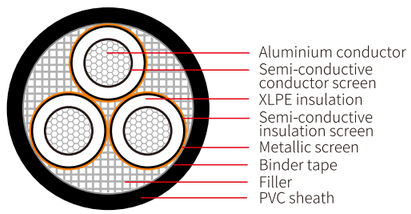
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	2.5	35.9	1013.8	1.91	2.45	1.5	1.34	0.238	0.388	1.9
3x25	6.0	2.5	37.2	1210.2	1.20	1.54	2.4	1.34	0.272	0.361	2.9
3x35	7.0	2.5	39.5	1393.7	0.868	1.11	3.3	1.34	0.301	0.344	4.1
3x50	8.1	2.5	42.1	1614.4	0.641	0.822	4.7	1.34	0.332	0.328	5.9
3x70	9.8	2.5	46.2	1967.9	0.443	0.568	6.6	1.34	0.380	0.310	8.2
3x95	11.4	2.5	50.0	2355.9	0.320	0.411	9.0	1.34	0.425	0.297	11.1
3x120	12.9	2.5	53.6	2730.7	0.253	0.325	11.3	1.78	0.467	0.287	14.0
3x150	14.4	2.5	57.2	3134.3	0.206	0.265	14.2	1.78	0.509	0.279	17.6
3x185	16.0	2.5	61.0	3630.7	0.164	0.211	17.5	1.78	0.554	0.271	21.6
3x240	18.4	2.6	67.3	4454.1	0.125	0.162	22.7	1.78	0.599	0.264	28.1
3x300	20.6	2.8	73.6	5341.6	0.100	0.130	28.3	1.78	0.616	0.260	35.1
3x400	23.4	3.0	81.5	6577.0	0.0778	0.102	37.8	1.78	0.645	0.255	46.8

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**:6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

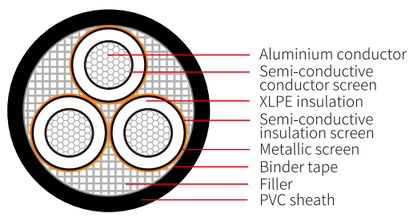
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.98	3.4	40.0	1321	1.91	2.45	1.5	1.34	0.194	0.410	1.9
3x25	6.00	3.4	42.4	1523	1.20	1.54	2.4	1.34	0.216	0.386	2.9
3x35	7.00	3.4	44.9	1726	0.868	1.11	3.3	1.34	0.237	0.367	4.1
3x50	8.10	3.4	47.6	1966	0.641	0.822	4.7	1.34	0.260	0.351	5.9
3x70	9.80	3.4	51.6	2347	0.443	0.568	6.6	1.34	0.295	0.330	8.2
3x95	11.40	3.4	55.7	2790	0.320	0.411	9.0	1.78	0.329	0.316	11.1
3x120	12.90	3.4	59.3	3195	0.253	0.325	11.3	1.78	0.360	0.304	14.0
3x150	14.40	3.4	62.9	3623	0.206	0.265	14.2	1.78	0.391	0.295	17.6
3x185	16.00	3.4	66.8	4153	0.164	0.211	17.5	1.78	0.424	0.286	21.6
3x240	18.40	3.4	72.4	4954	0.125	0.162	22.7	1.78	0.473	0.276	28.1
3x300	20.60	3.4	77.8	5797	0.100	0.130	28.3	1.78	0.519	0.268	35.1
3x400	23.40	3.4	84.6	6947	0.0778	0.102	37.8	1.78	0.576	0.260	46.8

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

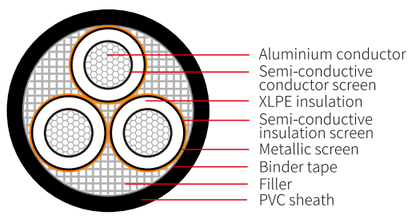
Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.98	3.4	40.0	1321	1.91	2.45	1.5	1.34	0.194	0.410	1.9
3x25	6.00	3.4	42.4	1523	1.20	1.54	2.4	1.34	0.216	0.386	2.9
3x35	7.00	3.4	44.9	1726	0.868	1.11	3.3	1.34	0.237	0.367	4.1
3x50	8.10	3.4	47.6	1966	0.641	0.822	4.7	1.34	0.260	0.351	5.9
3x70	9.80	3.4	51.6	2347	0.443	0.568	6.6	1.34	0.295	0.330	8.2
3x95	11.40	3.4	55.7	2790	0.320	0.411	9.0	1.78	0.329	0.316	11.1
3x120	12.90	3.4	59.3	3195	0.253	0.325	11.3	1.78	0.360	0.304	14.0
3x150	14.40	3.4	62.9	3623	0.206	0.265	14.2	1.78	0.391	0.295	17.6
3x185	16.00	3.4	66.8	4153	0.164	0.211	17.5	1.78	0.424	0.286	21.6
3x240	18.40	3.4	72.4	4954	0.125	0.162	22.7	1.78	0.473	0.276	28.1
3x300	20.60	3.4	77.8	5797	0.100	0.130	28.3	1.78	0.519	0.268	35.1
3x400	23.40	3.4	84.6	6947	0.0778	0.102	37.8	1.78	0.576	0.260	46.8

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**:12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

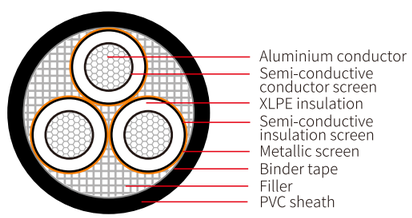
Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x35	7.0	5.5	54.1	2337.3	0.868	1.11	3.3	1.78	0.168	0.410	4.1
3x50	8.1	5.5	56.7	2602.5	0.641	0.822	4.7	1.78	0.182	0.391	5.9
3x70	9.8	5.5	60.8	3028.5	0.443	0.568	6.6	1.78	0.205	0.368	8.2
3x95	11.4	5.5	64.6	3484.3	0.320	0.411	9.0	1.78	0.226	0.350	11.1
3x120	12.9	5.5	68.3	3929.1	0.253	0.325	11.3	1.78	0.245	0.337	14.0
3x150	14.4	5.5	71.8	4391.9	0.206	0.265	14.2	1.78	0.265	0.326	17.6
3x185	16.0	5.5	75.7	4962.7	0.164	0.211	17.5	1.78	0.285	0.316	21.6
3x240	18.4	5.5	81.5	5848.5	0.125	0.162	22.7	1.78	0.316	0.303	28.1
3x300	20.6	5.5	86.7	6714.6	0.100	0.130	28.3	1.78	0.345	0.293	35.1
3x400	23.4	5.5	93.7	7968.4	0.0778	0.102	37.8	1.78	0.380	0.283	46.8

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC
Three core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

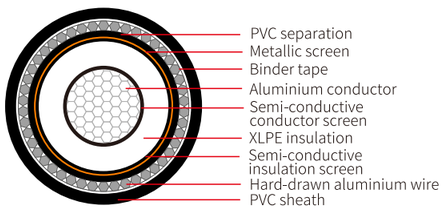
Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of conductor
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x50	8.1	8.0	68.7	3595.6	0.641	0.822	4.7	1.78	0.142	0.432	5.9
3x70	9.8	8.0	72.8	4080.1	0.443	0.568	6.6	1.78	0.158	0.406	8.2
3x95	11.4	8.0	76.8	4623.7	0.320	0.411	9.0	1.78	0.173	0.386	11.1
3x120	12.9	8.0	80.3	5115.9	0.253	0.325	11.3	1.78	0.186	0.371	14.0
3x150	14.4	8.0	84.0	5639.0	0.206	0.265	14.2	1.78	0.200	0.358	17.6
3x185	16.0	8.0	87.8	6259.5	0.164	0.211	17.5	1.78	0.214	0.346	21.6
3x240	18.4	8.0	93.5	7199.3	0.125	0.161	22.7	1.78	0.236	0.332	28.1
3x300	20.6	8.0	98.8	8174.0	0.100	0.130	28.3	1.78	0.256	0.320	35.1
3x400	23.4	8.0	105.6	9496.3	0.0778	0.102	37.8	2.23	0.280	0.308	46.8

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**:3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

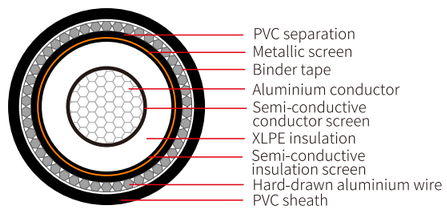
No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	2.5	25.3	669.5	1.91	2.45	1.5	0.53	0.238	0.505	2.2
1x25	6.0	2.5	26.5	751.3	1.20	1.54	2.4	0.53	0.272	0.470	2.4
1x35	7.0	2.5	27.5	816.0	0.868	1.11	3.3	0.53	0.301	0.447	2.5
1x50	8.1	2.5	28.6	896.8	0.641	0.822	4.7	0.53	0.332	0.426	2.7
1x70	9.8	2.5	30.3	1026.9	0.443	0.568	6.6	0.53	0.380	0.401	2.9
1x95	11.4	2.5	32.1	1180.6	0.320	0.411	9.0	0.53	0.425	0.383	3.1
1x120	12.9	2.5	33.6	1315.0	0.253	0.325	11.3	0.71	0.467	0.368	3.4
1x150	14.4	2.5	35.3	1470.3	0.206	0.265	14.2	0.71	0.509	0.356	3.6
1x185	16.0	2.5	37.9	1736.3	0.164	0.211	17.5	0.71	0.554	0.350	4.8
1x240	18.4	2.6	40.5	2020.2	0.125	0.161	22.7	0.71	0.599	0.336	5.3
1x300	20.6	2.8	43.4	2337.6	0.100	0.130	28.3	0.71	0.616	0.328	5.8
1x400	23.4	3.0	47.1	2771.4	0.0778	0.102	37.8	0.71	0.645	0.319	6.2
1x500	26.2	3.2	52.2	3450.2	0.0605	0.0799	47.2	0.71	0.674	0.317	8.6
1x630	29.8	3.2	56.4	4092.8	0.0469	0.0632	59.5	0.71	0.752	0.306	9.6

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

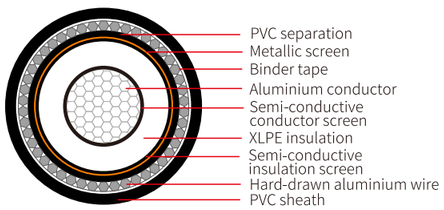
Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x16	4.8	3.4	27.1	765.9	1.91	22.45	1.5	0.53	0.190	0.519	2.5
1x25	6.0	3.4	28.3	845.0	1.20	1.54	2.4	0.53	0.216	0.484	2.7
1x35	7.0	3.4	29.3	918.1	0.868	1.11	3.3	0.53	0.237	0.461	2.8
1x50	8.1	3.4	30.4	1001.9	0.641	0.822	4.7	0.53	0.260	0.440	3.0
1x70	9.8	3.4	32.3	1149.9	0.443	0.568	6.6	0.53	0.295	0.414	3.2
1x95	11.4	3.4	33.9	1295.1	0.320	0.411	9.0	0.71	0.329	0.394	3.5
1x120	12.9	3.4	36.4	1520.0	0.253	0.325	11.3	0.71	0.360	0.385	4.5
1x150	14.4	3.4	38.1	1681.9	0.206	0.265	14.2	0.71	0.391	0.372	4.8
1x185	16.0	3.4	39.7	1868.3	0.164	0.211	17.5	0.71	0.424	0.360	5.1
1x240	18.4	3.4	42.3	2155.5	0.125	0.161	22.7	0.71	0.473	0.345	5.5
1x300	20.6	3.4	44.8	2445.2	0.100	0.130	28.3	0.71	0.519	0.334	5.9
1x400	23.4	3.4	49.2	2992.8	0.0778	0.101	37.8	0.71	0.576	0.328	8.0
1x500	26.2	3.4	52.6	3495.0	0.0605	0.0798	47.2	0.71	0.638	0.318	8.8
1x630	29.8	3.4	56.8	4125.9	0.0469	0.0632	59.5	0.71	0.712	0.308	9.6

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**:8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 8.7/15(17.5)kV

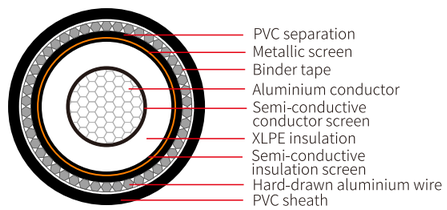
No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x25	6.0	4.5	30.5	967.8	1.20	1.54	2.4	0.53	0.177	0.500	3.0
1x35	7.0	4.5	31.7	1057.6	0.868	1.11	3.3	0.53	0.193	0.478	3.1
1x50	8.1	4.5	32.8	1145.3	0.641	0.822	4.7	0.53	0.210	0.456	3.3
1x70	9.8	4.5	34.7	1300.6	0.443	0.568	6.6	0.71	0.238	0.430	3.5
1x95	11.4	4.5	37.3	1542.5	0.320	0.411	9.0	0.71	0.263	0.415	4.7
1x120	12.9	4.5	38.8	1687.5	0.253	0.325	11.3	0.71	0.287	0.398	4.9
1x150	14.4	4.5	40.3	1847.6	0.206	0.265	14.2	0.71	0.310	0.384	5.3
1x185	16.0	4.5	42.1	2048.2	0.164	0.211	17.5	0.71	0.335	0.372	5.5
1x240	18.4	4.5	44.8	2345.1	0.125	0.161	22.7	0.71	0.373	0.357	5.9
1x300	20.6	4.5	47.1	2632.4	0.100	0.129	28.3	0.71	0.407	0.344	6.4
1x400	23.4	4.5	51.8	3219.5	0.0778	0.101	37.8	0.71	0.451	0.338	8.6
1x500	26.2	4.5	55.3	3741.4	0.0605	0.0797	47.2	0.71	0.498	0.328	9.2
1x630	29.8	4.5	59.3	4379.9	0.0469	0.0630	59.5	0.89	0.554	0.317	10.1

Note "*"：The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

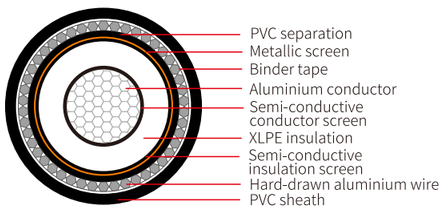
Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x35	7.0	5.5	33.7	1175.2	0.868	1.11	3.3	0.71	0.168	0.491	3.4
1x50	8.1	5.5	35.0	1281.1	0.641	0.822	4.7	0.71	0.182	0.470	3.5
1x70	9.8	5.5	37.7	1527.4	0.443	0.568	6.6	0.71	0.205	0.447	4.8
1x95	11.4	5.5	39.3	1684.4	0.320	0.411	9.0	0.71	0.226	0.426	5.0
1x120	12.9	5.5	41.0	1851.6	0.253	0.325	11.3	0.71	0.245	0.410	5.3
1x150	14.4	5.5	42.5	2007.5	0.206	0.265	14.2	0.71	0.265	0.395	5.5
1x185	16.0	5.5	44.4	2223.7	0.164	0.211	17.5	0.71	0.285	0.383	5.9
1x240	18.4	5.5	46.9	2509.1	0.125	0.161	22.7	0.71	0.316	0.366	6.2
1x300	20.6	5.5	50.9	3003.6	0.100	0.129	28.3	0.71	0.345	0.360	8.4
1x400	23.4	5.5	54.1	3425.5	0.0778	0.101	37.8	0.71	0.380	0.346	9.0
1x500	26.2	5.5	57.6	3973.4	0.0605	0.0796	47.2	0.89	0.419	0.337	9.8
1x630	29.8	5.5	61.8	4635.3	0.0469	0.0629	59.5	0.89	0.465	0.325	10.5

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/AWA/PVC

Single core XLPE Insulated cables with aluminium conductor and aluminium wires armour



Standard: IEC 60502-2

- **Rated voltage**:18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of insulation**: Natural
- **Colour of sheath**: Black
- **Min. bending radius**: 15 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

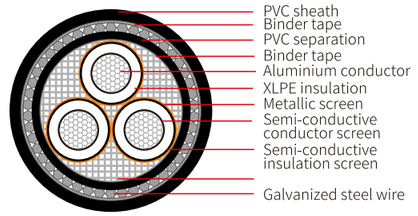
Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
1x50	8.1	8.0	41.2	1749.9	0.641	0.822	4.7	0.71	0.142	0.504	5.4
1x70	9.8	8.0	42.9	1910.5	0.443	0.568	6.6	0.71	0.158	0.474	5.6
1x95	11.4	8.0	44.8	2099.3	0.320	0.411	9.0	0.71	0.173	0.453	5.9
1x120	12.9	8.0	46.4	2270.0	0.253	0.325	11.3	0.71	0.186	0.435	6.2
1x150	14.4	8.0	49.5	2604.9	0.206	0.265	14.2	0.71	0.200	0.426	8.0
1x185	16.0	8.0	51.3	2838.7	0.164	0.211	17.5	0.71	0.214	0.412	8.4
1x240	18.4	8.0	54.1	3183.6	0.125	0.161	22.7	0.71	0.236	0.394	9.0
1x300	20.6	8.0	56.6	3525.7	0.100	0.129	28.3	0.71	0.256	0.381	9.6
1x400	23.4	8.0	60.0	3998.7	0.0778	0.101	37.8	0.89	0.280	0.367	10.1
1x500	26.2	8.0	63.3	4550.0	0.0605	0.0795	47.2	0.89	0.307	0.355	10.9
1x630	29.8	8.0	67.7	5275.5	0.0469	0.0627	59.5	0.89	0.339	0.343	11.7

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV
- **Test voltage**: 12.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

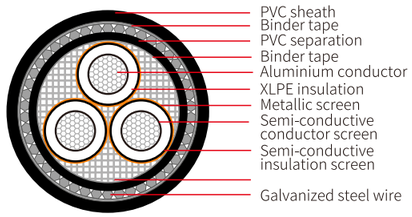
Rated Voltage: 3.6/6(7.2)kV or 3.8/6.6(7.2)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3×16	4.8	2.5	42.0	2516.0	1.91	2.45	1.5	1.34	0.238	0.388	14.8
3×25	6.0	2.5	44.9	2841.7	1.20	1.54	2.4	1.34	0.272	0.361	16.2
3×35	7.0	2.5	48.6	3471.8	0.868	1.11	3.3	1.34	0.301	0.344	21.1
3×50	8.1	2.5	51.3	3839.9	0.641	0.822	4.7	1.34	0.332	0.328	22.7
3×70	9.8	2.5	55.7	4455.4	0.443	0.568	6.6	1.34	0.380	0.310	25.3
3×95	11.4	2.5	59.6	5067.8	0.320	0.411	9.0	1.34	0.425	0.297	27.3
3×120	12.9	2.5	63.4	5666.0	0.253	0.325	11.3	1.78	0.467	0.287	29.4
3×150	14.4	2.5	67.3	6297.1	0.206	0.265	14.2	1.78	0.509	0.279	31.4
3×185	16.0	2.5	71.1	6996.8	0.164	0.211	17.5	1.78	0.554	0.271	33.5
3×240	18.4	2.6	79.0	8984.3	0.125	0.162	22.7	1.78	0.599	0.264	46.6
3×300	20.6	2.8	85.5	10301.7	0.100	0.130	28.3	1.78	0.616	0.260	50.7
3×400	23.4	3.0	93.8	12160.7	0.0778	0.102	37.8	1.78	0.645	0.255	56.5

Note "*"：The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**:6/10(12)kV or 6.35/11(12)kV
- **Test voltage**: 21kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core:** See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 6/10(12)kV or 6.35/11(12)kV

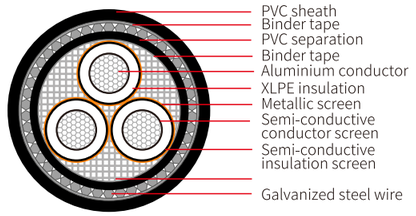
No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x16	4.8	3.4	46.5	2919.7	1.91	2.45	1.5	1.34	0.190	0.414	16.5
3x25	6.0	3.4	50.7	3681.4	1.20	1.54	2.4	1.34	0.216	0.385	22.7
3x35	7.0	3.4	53.1	3982.5	0.868	1.11	3.3	1.34	0.237	0.366	23.7
3x50	8.1	3.4	56.1	4387.8	0.641	0.822	4.7	1.34	0.260	0.349	25.3
3x70	9.8	3.4	60.3	5024.6	0.443	0.568	6.6	1.34	0.295	0.329	27.8
3x95	11.4	3.4	64.2	5639.4	0.320	0.411	9.0	1.78	0.329	0.315	29.9
3x120	12.9	3.4	67.9	6259.6	0.253	0.325	11.3	1.78	0.360	0.303	32.0
3x150	14.4	3.4	71.6	6884.6	0.206	0.265	14.2	1.78	0.391	0.294	34.0
3x185	16.0	3.4	75.6	7634.4	0.164	0.211	17.5	1.78	0.424	0.286	36.1
3x240	18.4	3.4	83.3	9642.7	0.125	0.162	22.7	1.78	0.473	0.275	49.1
3x300	20.6	3.4	88.6	10857.3	0.100	0.130	28.3	1.78	0.519	0.268	53.2
3x400	23.4	3.4	95.8	12538.1	0.0778	0.102	37.8	1.78	0.576	0.260	58.1

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 8.7/15(17.5)kV
- **Test voltage**: 30.5kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

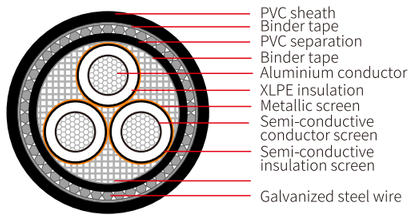
Rated Voltage: 8.7/15(17.5)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x25	6.0	4.5	56.1	4261.5	1.20	1.54	2.4	1.34	0.177	0.411	25.3
3x35	7.0	4.5	58.6	4625.4	0.868	1.11	3.3	1.34	0.193	0.390	26.8
3x50	8.1	4.5	61.4	5046.1	0.641	0.822	4.7	1.78	0.210	0.372	28.3
3x70	9.8	4.5	65.7	5676.5	0.443	0.568	6.6	1.78	0.238	0.350	30.4
3x95	11.4	4.5	69.7	6340.9	0.320	0.411	9.0	1.78	0.263	0.334	32.5
3x120	12.9	4.5	73.6	6995.5	0.253	0.325	11.3	1.78	0.287	0.322	34.5
3x150	14.4	4.5	78.5	8394.5	0.206	0.265	14.2	1.78	0.310	0.311	45.8
3x185	16.0	4.5	82.7	9306.4	0.164	0.211	17.5	1.78	0.335	0.302	49.1
3x240	18.4	4.5	88.6	10556.0	0.125	0.162	22.7	1.78	0.373	0.290	53.2
3x300	20.6	4.5	94.3	11791.1	0.100	0.130	28.3	1.78	0.407	0.282	56.5
3x400	23.4	4.5	101.2	13480.5	0.0778	0.102	37.8	1.78	0.451	0.273	61.4

Note "*" : The value is calculated base on copper tape.

AL/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 12/20(24)kV or 12.7/22(24)kV
- **Test voltage**: 42kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 12/20(24)kV or 12.7/22(24)kV

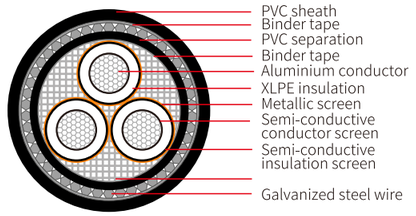
No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x35	7.0	5.5	63.7	5252.1	0.868	1.11	3.3	1.78	0.168	0.410	29.4
3x50	8.1	5.5	66.6	5692.6	0.641	0.822	4.7	1.78	0.182	0.391	30.9
3x70	9.8	5.5	70.7	6323.3	0.443	0.568	6.6	1.78	0.205	0.368	33.0
3x95	11.4	5.5	74.7	7051.8	0.320	0.411	9.0	1.78	0.226	0.350	35.6
3x120	12.9	5.5	80.1	8568.8	0.253	0.325	11.3	1.78	0.245	0.337	47.5
3x150	14.4	5.5	83.7	9267.8	0.206	0.265	14.2	1.78	0.265	0.326	49.9
3x185	16.0	5.5	87.8	10113.3	0.164	0.211	17.5	1.78	0.285	0.316	52.4
3x240	18.4	5.5	93.8	11432.2	0.125	0.162	22.7	1.78	0.316	0.303	56.5
3x300	20.6	5.5	99.2	12727.4	0.100	0.130	28.3	1.78	0.345	0.293	60.6
3x400	23.4	5.5	106.4	14441.4	0.0778	0.102	37.8	1.78	0.380	0.283	64.6

Note "*" : The value is calculated base on copper tape.

Medium Voltage Power Cable

AL/XLPE/SCR/PVC/SWA/PVC

Three core XLPE Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-2

- **Rated voltage**: 18/30(36)kV or 19/33(36)kV
- **Test voltage**: 63kV/5 mins
- **Max. Short-circuit temperature**: 250°C
- **Operating conductor temperature**: 90°C
- **Min. temperature for laying and manipulation with cables**: -5°C
- **Temperature range for operating**: from -35 to +90°C
- **Colour of core**: See "Recommended Multi Core Identification" Table
- **Colour of sheath**: Black
- **Min. bending radius**: 12 OD
- **Packing**: Cable Drum

Optional

The cable design based on AS/NZS, SANS, NBR, ICEA, BS, EN, AEIC etc. is also available. Tree retardant, Flame retardant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available. Manner of metallic screen can be designed as copper tape, or copper wires, or a combination of wires and tapes.

Application

Cables are designed for fixed installation into distribution network or possibly damp environments. If it is necessary to lay the cable in the ground, it has to be provided with a protection tube made of plastics, and has to be laid in bed of sand. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Rated Voltage: 18/30(36)kV or 19/33(36)kV

No. Cores & Cross section area	Approx. diameter of conductor	Nominal thickness of insulation	Max. overall of cable	Approx. weight of cable	Max. D.C resistance of Conductor at 20°C	Max. A.C resistance of Conductor at 90°C (Trefoil)	Fault current carrying of conductor (1s)	Fault current carrying of screen* (1s)	Conductor to screen capacitance	Inductance	Max. allowable pulling force of armour
	mm	mm	mm	kg/km	Ω/km	Ω/km	kA	kA	μF/km	μF/km	kN
3x50	8.1	8.0	80.5	8239.8	0.641	0.822	4.7	1.78	0.142	0.432	47.5
3x70	9.8	8.0	84.8	9065.0	0.443	0.568	6.6	1.78	0.158	0.406	50.7
3x95	11.4	8.0	88.8	9854.0	0.320	0.411	9.0	1.78	0.173	0.386	53.2
3x120	12.9	8.0	92.6	10621.2	0.253	0.325	11.3	1.78	0.186	0.371	55.6
3x150	14.4	8.0	96.3	11384.8	0.206	0.265	14.2	1.78	0.200	0.358	58.1
3x185	16.0	8.0	100.3	12287.6	0.164	0.211	17.5	1.78	0.214	0.346	60.6
3x240	18.4	8.0	106.4	13712.9	0.125	0.161	22.7	1.78	0.236	0.332	64.6
3x300	20.6	8.0	111.7	15084.6	0.100	0.130	28.3	1.78	0.256	0.320	68.7
3x400	23.4	8.0	119.0	16990.8	0.0778	0.102	37.8	2.23	0.280	0.308	73.6

Note "*" : The value is calculated base on copper tape.

Recommended Multi Core Identification

Recommended Multi Core Identification				
Phase A	Brown	Red	Red	Red
Phase B	Black	Yellow	Yellow	White
Phase C	Grey	Blue	Green	Blue

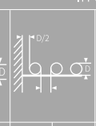
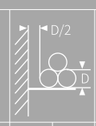
Colour strips under metallic screen along each core

Maximum D.C. resistances of conductor at 20°C

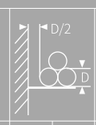
Nominal cross-sectional area	Category	
	Class 2	
	Copper	Aluminium
mm^2	Ω/kM	Ω/kM
16	1.15	1.91
25	0.727	1.20
35	0.524	0.868
50	0.387	0.641
70	0.268	0.443
95	0.193	0.320
120	0.153	0.253
150	0.124	0.206
185	0.0991	0.164
240	0.0754	0.125
300	0.0601	0.100
400	0.0470	0.0778
500	0.0366	0.0605
630	0.0283	0.0469

Continuous current-carrying capacity, A

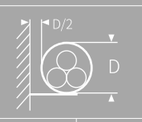
3.6/6(7.2) or 3.8/6.6(7.2)kV Single Core

Screened, Sheathed																								
	In air										In Ground						In underground ducts							
Nominal conductor area																								
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
16	113	--	133	--	104	--	110	--	79	--	116	--	118	--	113	--	102	--	103	--	101	--	91	--
25	146	--	172	--	135	--	143	--	102	--	148	--	150	--	145	--	130	--	131	--	128	--	116	--
35	180	138	211	163	166	127	176	134	123	95	178	138	179	139	174	134	155	121	155	122	153	119	139	107
50	214	167	250	197	198	154	210	164	146	113	208	163	208	164	204	159	180	142	178	143	179	140	164	128
70	266	208	307	244	248	192	264	204	182	142	251	198	248	199	249	194	215	172	211	171	216	170	202	158
95	322	252	370	293	301	233	321	248	219	170	297	234	291	233	296	231	252	202	245	199	255	201	241	188
120	366	288	418	334	344	268	367	286	247	193	334	264	324	260	335	262	282	226	271	221	287	227	273	213
150	412	326	467	375	389	303	415	324	285	223	369	293	355	288	373	292	310	251	296	244	318	253	309	242
185	467	371	524	424	443	347	474	371	322	253	411	328	391	320	419	329	344	281	325	272	356	286	348	273
240	543	435	600	492	521	410	558	438	373	294	466	376	437	362	481	380	388	320	361	306	407	328	400	316
300	614	495	668	553	595	469	636	502	436	345	515	419	477	399	537	426	428	356	394	337	454	368	460	365
400	698	572	748	629	684	546	732	585	495	397	570	471	521	443	604	485	471	400	429	374	507	418	518	416

6/10(12) or 6.35/11(12)kV Single Core

Screened, Sheathed																								
Nominal conductor area																								
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
16	114	--	134	--	106	--	112	--	81	--	116	--	118	--	113	--	103	--	104	--	101	--	91	--
25	148	--	173	--	137	--	145	--	103	--	148	--	150	--	145	--	131	--	131	--	129	--	117	--
35	182	140	211	163	168	129	178	136	125	96	177	138	179	139	174	134	156	121	156	122	154	119	140	108
50	216	169	251	198	201	156	213	166	150	117	208	163	208	164	204	159	181	143	180	144	180	141	167	130
70	269	210	308	244	251	194	266	206	184	143	251	198	248	199	249	194	216	173	212	172	217	171	204	159
95	323	254	368	293	302	235	321	250	219	171	297	234	291	233	296	231	253	203	246	200	256	202	242	189
120	370	291	420	334	348	271	370	288	257	200	334	264	325	261	336	262	284	227	274	223	289	228	279	218
150	416	328	468	375	393	306	419	326	288	225	370	293	356	288	374	292	314	254	300	248	322	256	311	244
185	471	374	525	425	448	350	478	373	325	255	412	329	392	321	420	330	347	283	328	274	359	287	350	275
240	548	438	602	492	525	413	561	441	376	296	467	376	439	363	482	380	391	323	365	308	410	330	402	318
300	617	497	670	553	598	472	639	504	438	347	516	419	478	400	538	427	431	358	397	338	457	369	462	366
400	701	573	750	630	687	548	735	586	497	398	571	471	522	444	605	485	474	402	431	376	510	419	519	417

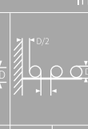
3.6/6(7.2) or 3.8/6.6(7.2)kV Three Core

Ind. Screened, Sheathed										
							In Ground			
Nominal conductor area										
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
16	103	--	110	--	78	--	112	--	89	--
25	134	--	142	--	100	--	143	--	114	--
35	162	126	173	134	122	95	171	133	137	107
50	193	150	206	160	145	113	201	156	162	126
70	238	186	255	199	181	141	245	191	200	156
95	289	225	310	241	218	170	292	227	239	186
120	332	258	357	277	248	193	330	258	271	211
150	373	291	401	313	277	217	367	287	301	236
185	423	331	456	357	312	245	411	323	338	266
240	492	389	532	420	371	294	469	372	395	314
300	555	441	600	477	415	331	521	416	440	351
400	628	507	682	550	466	377	579	470	489	397

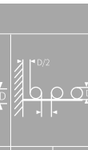
6/10(12) or 6.35/11(12)kV Three Core

Ind. Screened, Sheathed										
							In Ground			
Nominal conductor area										
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
16	105	--	111	--	79	--	112	--	90	--
25	136	--	145	--	104	--	143	--	116	--
35	164	127	174	136	124	96	171	133	138	107
50	195	152	208	162	150	117	201	157	165	129
70	241	188	257	201	183	143	245	191	201	157
95	291	227	312	243	220	171	292	227	240	187
120	334	260	359	279	250	195	330	258	272	212
150	375	293	403	315	288	218	367	287	309	237
185	426	333	458	359	324	255	412	323	347	273
240	495	391	534	422	373	296	469	372	396	315
300	556	442	602	478	416	332	521	416	440	352
400	629	507	682	549	467	378	579	469	490	397

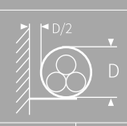
8.7/15(17.5)kV Single Core

Screened, Sheathed																								
	In air										In Ground						In underground ducts							
Nominal conductor area																						
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
25	149	--	175	--	138	--	147	--	104	--	149	--	152	--	147	--	132	--	133	--	130	--	120	--
35	184	141	211	163	170	131	180	138	127	98	177	138	179	139	174	134	156	121	156	122	154	119	142	109
50	218	171	251	198	203	158	215	167	153	119	208	163	208	164	204	159	182	143	181	144	180	141	169	132
70	270	212	307	244	252	196	267	208	188	146	251	198	248	199	249	194	218	175	214	174	219	173	206	161
95	326	256	368	293	305	237	324	252	224	175	297	234	291	233	296	231	256	205	249	202	258	204	245	191
120	373	293	420	334	351	273	373	290	259	202	334	264	325	261	336	262	287	229	277	225	291	230	280	219
150	419	330	468	375	396	309	422	328	290	227	370	293	357	288	374	292	316	255	302	249	324	257	312	245
185	475	376	525	424	452	353	481	375	333	261	412	329	393	321	420	330	350	285	331	276	362	288	356	279
240	552	440	603	492	529	416	564	443	386	304	468	376	440	363	482	380	395	326	369	311	413	333	409	323
300	622	500	672	553	603	475	643	506	442	349	517	419	480	401	539	427	435	361	401	342	461	372	464	367
400	705	576	751	629	692	551	739	588	500	400	572	472	524	445	606	485	479	405	436	379	515	422	521	418

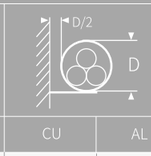
12/20(24) or 12.7/22(24)kV Single Core

Screened, Sheathed																								
Nominal conductor area																						
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
35	186	143	212	164	173	133	182	140	130	100	177	138	179	139	174	135	157	122	157	123	155	120	144	111
50	221	173	251	198	206	160	217	169	157	122	208	163	208	164	205	159	183	144	182	145	181	142	172	134
70	272	214	307	244	254	199	269	210	192	150	251	198	248	199	249	194	220	177	217	176	221	175	209	163
95	329	258	369	293	309	240	327	255	230	179	297	234	292	233	297	232	259	207	252	205	261	206	249	194
120	376	295	420	334	355	276	377	293	262	204	335	264	326	261	336	262	290	232	280	228	294	233	282	220
150	423	333	469	375	400	312	425	331	293	229	371	294	358	289	374	293	319	257	305	251	326	259	314	246
185	479	379	526	424	456	356	485	378	342	268	413	329	394	321	421	330	354	287	335	278	365	290	362	284
240	556	443	604	492	534	419	568	446	396	312	469	377	441	364	483	381	399	329	373	315	417	336	417	329
300	627	504	674	553	608	479	647	509	446	352	519	420	482	402	541	428	440	365	406	346	465	376	466	369
400	710	579	752	629	697	555	743	591	504	403	574	473	526	446	607	486	485	408	441	382	520	425	523	420

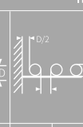
8.7/15(17.5)kV Three Core

Ind. Screened, Sheathed										
							In Ground			
Nominal conductor area										
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
25	137	--	147	--	107	--	143	--	117	--
35	165	128	176	137	127	98	171	133	140	109
50	197	153	210	163	151	118	201	157	166	129
70	243	189	259	202	185	144	245	191	202	158
95	293	228	314	244	225	175	292	227	244	190
120	336	262	361	281	256	200	330	258	276	215
150	377	295	405	317	290	223	366	287	310	240
185	428	335	460	360	326	256	411	323	348	274
240	497	392	536	423	375	297	469	372	397	315
300	558	444	604	479	418	334	521	416	441	352
400	631	508	684	550	478	387	579	469	499	404

12/20(24) or 12.7/22(24)kV Three Core

Ind. Screened, Sheathed										
							In Ground			
Nominal conductor area										
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
35	167	130	178	138	130	130	171	133	142	111
50	199	155	212	165	153	153	201	157	167	130
70	245	191	261	204	187	187	245	191	203	159
95	296	230	316	246	231	231	292	227	248	193
120	339	264	363	283	262	262	330	258	280	219
150	380	297	408	319	292	292	366	287	311	244
185	430	337	462	362	328	328	410	323	349	275
240	499	394	538	424	377	377	469	372	398	316
300	561	446	606	481	421	421	521	416	442	353
400	634	510	687	552	490	490	580	469	508	412

18/30(36) or 19/33(36)kV Single Core

Screened, Sheathed																								
In air											In Ground						In underground ducts							
Nominal conductor area																								
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
50	224	175	250	197	210	163	221	172	160	125	208	162	209	164	205	159	187	147	186	148	185	145	174	135
70	276	217	306	243	259	202	273	213	202	158	251	198	249	199	249	194	223	178	219	178	223	175	216	169
95	333	262	369	292	315	245	332	258	242	189	297	234	292	234	297	232	265	209	258	207	267	208	258	201
120	381	299	420	332	361	281	381	296	276	215	335	264	327	262	336	262	296	237	287	233	300	237	292	228
150	429	337	469	374	407	317	430	335	308	241	372	294	359	290	375	293	327	263	313	257	333	264	325	254
185	485	383	527	422	463	362	490	382	348	272	414	330	397	323	421	330	362	293	343	285	372	296	366	287
240	563	448	605	491	542	425	574	450	402	316	471	378	444	366	485	382	408	334	382	321	425	340	420	331
300	634	508	674	551	616	484	653	513	452	357	521	421	485	404	542	428	446	370	413	352	471	381	469	371
400	719	584	756	628	706	561	750	595	533	425	579	475	531	449	610	487	492	414	449	389	526	430	547	437

18/30(36) or 19/33(36)kV Three Core

Ind. Screened, Sheathed										
							In Ground			
Nominal conductor area										
mm²	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL
50	202	157	215	167	161	125	201	157	173	135
70	249	194	265	206	196	153	245	191	210	164
95	300	234	320	249	234	183	291	228	250	195
120	342	267	366	285	265	207	329	258	282	221
150	383	300	411	321	295	232	366	287	313	246
185	433	340	465	365	332	261	410	323	350	276
240	502	396	540	426	395	313	468	371	412	327
300	564	448	608	482	441	352	520	415	457	366
400	637	513	689	553	493	399	579	469	509	412

Calculations of the Current Rating based on the following standard operating conditions:

Maximum conductor temperature:	90°C
Ambient air temperature:	40°C
Ambient soil temperature:	25°C
Soil thermal resistivity:	1.2K.m/W
Depth of laying:	0.8m

Rating Factors

Ambient Air Temperature Variation							
Air Temp. (°C)	20	25	35	40	45	50	55
Rating Factor	1.18	1.14	1.05	1	0.95	0.89	0.84

Ground Temperature Variation Cables laid direct in ground or in ducts							
Air Temp. (°C)	10	15	20	25	30	35	40
Rating Factor	1.11	1.07	1.04	1	0.96	0.92	0.88

Depth of Burial Variation				
Depth of burial (m)	Cables laid Direct in Ground		Cables laid Direct in Ducts	
	Rating factor up to 300mm ^{2}	Rating factor above 300mm ^{2}	Rating factor (single core)	Rating factor (three core)
0.80	1.00	1.00	1.00	1.00
1.00	0.98	0.97	0.98	0.99
1.25	0.96	0.95	0.95	0.97
1.50	0.95	0.93	0.94	0.96
1.75	0.94	0.91	0.92	0.96
2.00	0.92	0.89	0.91	0.95
2.50	0.91	0.88	0.89	0.94
3.00	0.90	0.86	0.88	0.93

Thermal Resistivity of Soil Variation Single Core Cable Laid in Single Way Ducts											
Nominal conductor area mm ^{2}	Thermal resistivity (°C m/W)										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.08	1.06	1.04	1.03	1.00	0.96	0.90	0.85	0.81	0.77	0.74
70	1.08	1.06	1.05	1.03	1.00	0.96	0.90	0.84	0.80	0.76	0.73
95	1.08	1.07	1.05	1.03	1.00	0.95	0.89	0.84	0.80	0.75	0.72
120	1.09	1.07	1.05	1.03	1.00	0.95	0.89	0.83	0.79	0.75	0.71
150	1.09	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.79	0.74	0.71
185	1.09	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.78	0.74	0.70
240	1.10	1.08	1.05	1.04	1.00	0.95	0.88	0.82	0.78	0.73	0.70
300	1.10	1.08	1.06	1.04	1.00	0.95	0.87	0.82	0.77	0.72	0.69
400	1.11	1.08	1.06	1.04	1.00	0.94	0.87	0.82	0.77	0.72	0.68
500	1.12	1.08	1.06	1.04	1.00	0.94	0.87	0.81	0.76	0.71	0.68
630	1.12	1.09	1.06	1.04	1.00	0.94	0.87	0.81	0.76	0.71	0.67

Thermal Resistivity of Soil Variation Single Core Cable Laid Direct in Ground											
Nominal conductor area mm ^{2}	Thermal resistivity (°C m/W)										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
50	1.21	1.16	1.11	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59
70	1.22	1.16	1.12	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59
95	1.22	1.16	1.12	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59
120	1.22	1.16	1.12	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59
150	1.22	1.16	1.12	1.07	1.00	0.91	0.81	0.73	0.68	0.63	0.59
185	1.22	1.17	1.12	1.07	1.00	0.91	0.81	0.73	0.68	0.62	0.59
240	1.23	1.17	1.12	1.07	1.00	0.91	0.80	0.73	0.68	0.62	0.59
300	1.23	1.17	1.12	1.07	1.00	0.91	0.80	0.73	0.68	0.62	0.59
400	1.23	1.17	1.12	1.07	1.00	0.91	0.80	0.73	0.67	0.62	0.58
500	1.23	1.17	1.12	1.07	1.00	0.91	0.80	0.73	0.67	0.62	0.58
630	1.23	1.17	1.12	1.07	1.00	0.91	0.80	0.73	0.67	0.61	0.58

Thermal Resistivity of Soil Variation Three Core Cables Laid in Duct											
Nominal conductor area mm ^{2}	Thermal resistivity (°C m/W)										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
16	1.06	1.04	1.03	1.02	1.00	0.97	0.92	0.88	0.85	0.82	0.79
25	1.06	1.05	1.03	1.02	1.00	0.96	0.92	0.88	0.84	0.82	0.78
35	1.06	1.05	1.03	1.02	1.00	0.96	0.92	0.87	0.83	0.81	0.77
50	1.07	1.05	1.03	1.02	1.00	0.96	0.91	0.87	0.83	0.80	0.77
70	1.07	1.05	1.04	1.02	1.00	0.96	0.91	0.86	0.82	0.79	0.76
95	1.07	1.06	1.04	1.02	1.00	0.96	0.91	0.86	0.82	0.78	0.75
120	1.08	1.06	1.04	1.03	1.00	0.95	0.90	0.85	0.81	0.78	0.74
150	1.09	1.06	1.04	1.03	1.00	0.95	0.90	0.85	0.80	0.77	0.73
185	1.09	1.07	1.05	1.03	1.00	0.95	0.89	0.84	0.80	0.76	0.72
240	1.09	1.07	1.05	1.03	1.00	0.95	0.89	0.84	0.79	0.76	0.72
300	1.10	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.78	0.75	0.71
400	1.10	1.07	1.05	1.03	1.00	0.95	0.88	0.83	0.78	0.75	0.71

Thermal Resistivity of Soil Variation Three Core Cables Laid Direct in Ground											
Nominal conductor area mm ^{2}	Thermal resistivity (°C m/W)										
	0.7	0.8	0.9	1.0	1.2	1.5	2.0	2.5	3.0	3.5	4.0
16	1.16	1.12	1.08	1.05	1.00	0.93	0.84	0.77	0.72	0.66	0.62
25	1.17	1.13	1.09	1.05	1.00	0.93	0.83	0.77	0.71	0.65	0.61
35	1.17	1.13	1.09	1.06	1.00	0.92	0.83	0.76	0.71	0.65	0.61
50	1.17	1.13	1.09	1.06	1.00	0.92	0.83	0.76	0.71	0.65	0.61
70	1.18	1.14	1.09	1.06	1.00	0.92	0.83	0.75	0.70	0.64	0.60
95	1.18	1.14	1.09	1.06	1.00	0.92	0.83	0.75	0.70	0.64	0.60
120	1.19	1.14	1.10	1.06	1.00	0.92	0.82	0.75	0.69	0.64	0.60
150	1.19	1.14	1.10	1.06	1.00	0.92	0.82	0.75	0.69	0.63	0.59
185	1.19	1.14	1.10	1.06	1.00	0.92	0.82	0.74	0.69	0.63	0.59
240	1.20	1.15	1.10	1.07	1.00	0.92	0.81	0.74	0.69	0.63	0.59
300	1.20	1.15	1.10	1.07	1.00	0.92	0.81	0.74	0.69	0.63	0.59
400	1.20	1.15	1.10	1.07	1.00	0.92	0.81	0.74	0.69	0.63	0.59

Medium Voltage Power Cable

GLOBAL SERVICE NETWORK

International Representative Offices

Contact Information

info@hengtonggroup.com

Africa Region

DR Congo

Ethiopia

Kenya

Republic of the Congo

Uganda

Zambia

America Region

Argentina

Bolivia

Chile

Colombia

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Jordan

Lebanon

Morocco (West Africa&North Africa Region)

Europe Region

Baltic

Georgia

Italy

Poland

Serbia

Turkey

Ukraine

Russia Region

Russia

Domestic Representative Offices

Hengtong (Beijing) Representative Office

Room B1803, Digital Building, No. 2 Zhongguancun South Avenue, Haidian District, Beijing, China
Tel: 010-51626988
Fax: 010-51626998

Hengtong (Guangdong) Representative Office

Room 1402, Bldg A, Fengxing Plaza, No. 67, Tianhe East Road, Tianhe District, Guangzhou, Guangdong Province, China
Tel/Fax: 020-87599616

Hengtong (Zhejiang) Representative Office

Room 1002, Huayuan Development Building, No. 639, Jianguo North Road, Xiacheng District, Hangzhou, Zhejiang Province, China
Tel/Fax: 0571-85392807

Hengtong (Hunan) Representative Office

Rooms 2118 and 2119, Business Building, Dahua Hotel, Dongtang, No. 528, Laodong West Road, Yuhua District, Changsha, Hunan Province, China
Tel/Fax: 0731-89710847

Hengtong (Henan) Representative Office

Room 1909, Tower A, Guomao Building, Garden Road (Southwest of the intersection with Nongye Road), Jinshui District, Zhengzhou, Henan Province, China
Tel/Fax: 0371-65720119

Hengtong (Guizhou) Representative Office

Room 704, Bldg A, Quanlin International Plaza, No. 196, Fushui South Road, Nanming District, Guiyang, China

Hengtong (Liaoning) Representative Office

Room 66-B-10C, No. 225, Youth Street, Shenhe District, Shenyang, China
Tel/Fax: 0451-51444018

Hengtong (Luoyang) Representative Office

Room 5-2-701, Zhongfu Jinyuan Community, Qianjing South Road, Jianxi District, Luoyang, China

Hengtong (Shanghai) Representative Office

12/F, Bldg A, Far East International Plaza, No. 319, Xianxia Road, Shanghai, China
Tel: 021-32084666-8030
Tel: 021-32084666-8072

Hengtong (Shenzhen) Representative Office

Rooms A703 and A503, Ruijingge, Hongrui Garden Community; and Room 2B, Bldg B, Lantiange, Xililantian Garden Community, Shenzhen, China
Tel/Fax: 020-87599616

Hengtong (Jiangsu) Representative Office

Room 602, No. 8, Huju South Road, Nanjing, Jiangsu Province, China
Tel: 025-83464575
Fax: 0512-63800538

Hengtong (Hubei) Representative Office

Room 1-2-604, Taiyin Building, No. 1, Changning Community, Changqing Road, Jianghan District, Wuhan, Hubei Province, China
Tel/Fax: 027-82647420

Hengtong (Hebei) Representative Office

Room 1-A9, 1/F, Attached Bldg, Fortune Center, No. 86, Guang'an Street, Chang' an District, Shijiazhuang, Hebei Province, China
Tel/Fax: 0311-66159890

Hengtong (Yunnan) Representative Office

15/F, Tower C, No. 96, Beijing Road, Kunming, China
Tel/Fax: 0871-65640310

Hengtong (Heilongjiang) Representative Office

Room 1-1-510, No. 146, Dongdazhi Street, Nangang District, Harbin, China
Tel/Fax: 0451-51444018

Hengtong (Tianjin) Representative Office

Room 609, Bldg 3, Yitian Garden Community (West of the intersection of Baotou Avenue and Xizang Road), Nanmenwai Street, Heping District, Tianjin, China
Tel/Fax: 022-23450605

Hengtong (Fujian) Representative Office

Room 2203, Lippo Tianma Plaza, No. 1, Wuyi North Road, Gulou District, Fuzhou, China
Tel/Fax: 0591-83314244

Hengtong (Jiangxi) Representative Office

Room 1508, Nanbin International Financial Building, Nanchang, Jiangxi Province, China
Tel/Fax: 0791-86255821

Hengtong (Shandong) Representative Office

Room 910, Bldg A, Wanda Plaza, Jingsi Road, Shizhong District, Ji'nan, Shandong Province, China
Tel: 0531-81766682
Fax: 0531-81766683

Hengtong (Shaanxi) Representative Office

Room 12507, Bldg 13-1 (2507, Langchen Building), Gaoxin 4th Road, High-tech Zone, Xi'an, China
Tel/Fax: 029-88339411

Hengtong (Gansu) Representative Office

Room 1303, 13/F, Bldg C, Century Plaza, No. 352, Qingyang Road, Chengguan District, Lanzhou, China
Tel/Fax: 0931-8824359

Hengtong (Jilin) Representative Office

Room 1401, Bldg C46, Changchunmingzhu Community, No. 8668, Renmin Street, Nanguan District, Changchun, China
Tel/Fax: 020-87599616

Hengtong (Chongqing) Representative Office

Room 7-2, No. 1, Fortune Avenue, Yubei District, Chongqing, China
Tel/Fax: 023-68691819

Hengtong (Guangxi) Representative Office

Room 906, Tower E, Huidong International Building, Jinpu Road, Qingxiu District, Nanning, Guangxi, China
Tel/Fax: 0771-5717234

Hengtong (Anhui) Representative Office

Rooms 2527, 2528 and 2529, East Community, Impression West Lake Garden, Wangjiang West Road, Shushan District, Hefei, China
Tel/Fax: 0551-65622957

Hengtong (Shanxi) Representative Office

No. 2 Jiefang South Road, Yingze District, Taiyuan, Shanxi Province, China
Tel/Fax: 0351-4605240

Hengtong (Sichuan) Representative Office

Times 8 (No. 2, Bldg 33), No. 68, Zhiquanduan, East Street, Jinjiang District, Chengdu, Sichuan Province, China
Tel/Fax: 028-84455529

Hengtong (Xinjiang) Representative Office

Room H, 14/F, Tower B, Times Square, No. 30, Guangming Road, Tianshan District, Urumqi, Xinjiang, China
Tel/Fax: 0991-4529183

Hengtong (Inner Mongolia) Representative Office

Room 1051-16, 5/F, Changxing Building, Daxue West Street, Saihan District, Hohhot, Inner Mongolia, China
Tel/Fax: 0471-3396565