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LOW VOLTAGE POWER CABLE



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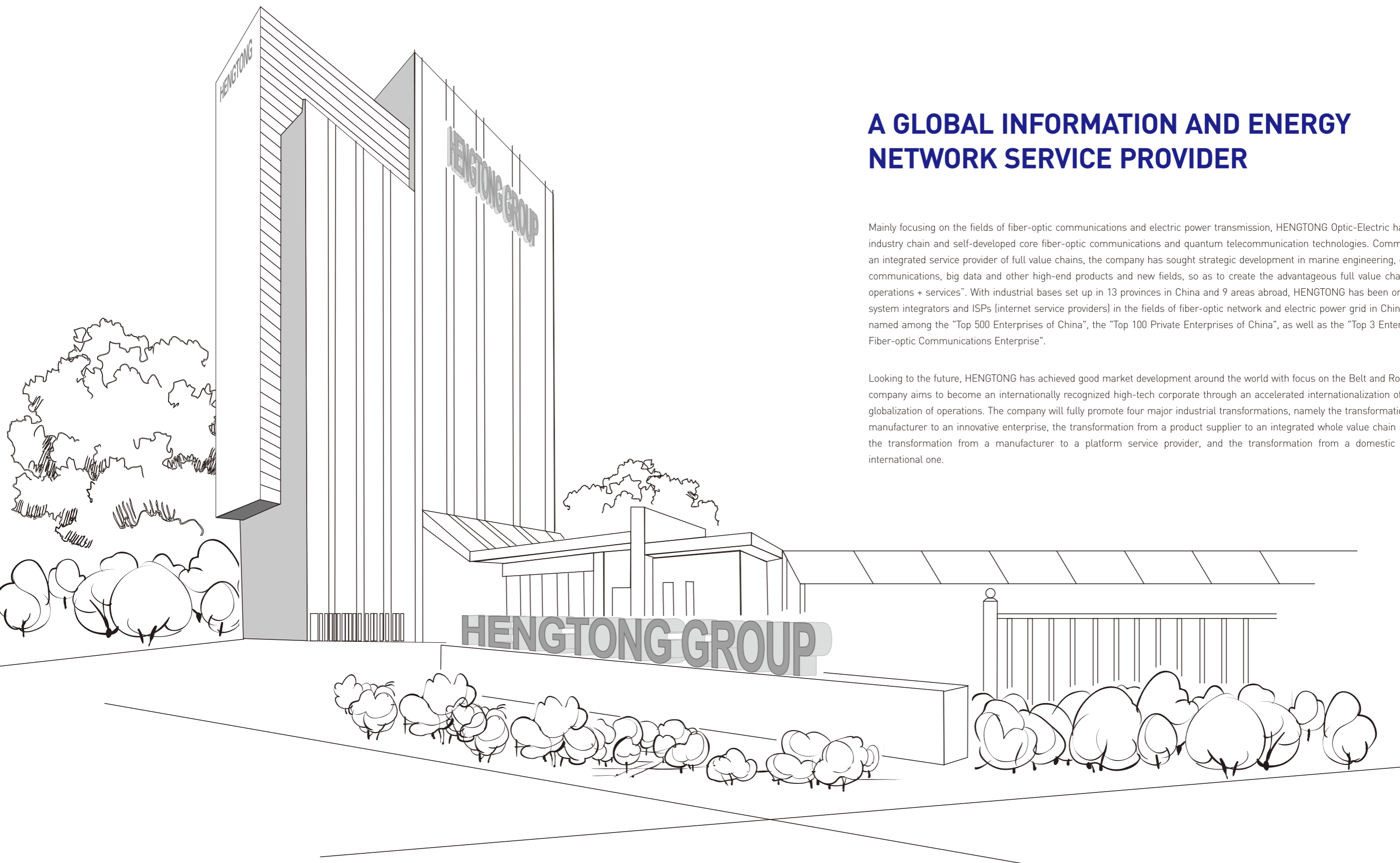
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HENG TONG OPTIC-ELECTRIC
A Global Information and Energy Network
Service Provider



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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.

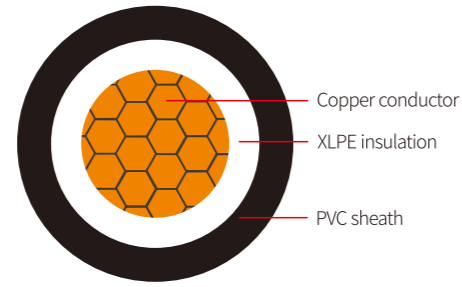
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CU/XLPE/PVC

Single core XLPE insulated cables with copper conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
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°C 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

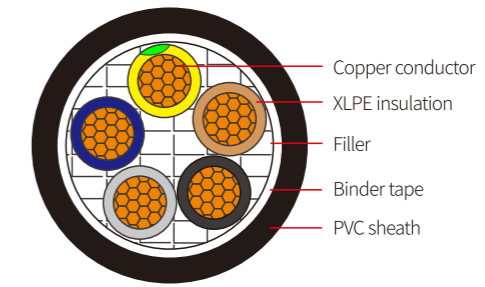
For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x1.5	1.53	7.9	47	12.1	15.4	0.26	0.10
1x2.5	1.98	8.4	60	7.41	9.45	0.41	0.17
1x4	2.49	8.9	77	4.61	5.88	0.64	0.27
1x6	3.06	9.5	99	3.08	3.93	0.94	0.41
1x10	3.83	10.5	144	1.83	2.33	1.53	0.68
1x16	4.80	11.5	206	1.15	1.47	2.29	1.09
1x25	6.0	12.8	302	0.727	0.927	3.58	1.70
1x35	7.0	13.8	397	0.524	0.668	5.01	2.38
1x50	8.1	15.1	521	0.387	0.494	7.15	3.40
1x70	9.8	17.1	730	0.268	0.342	10.02	4.76
1x95	11.4	18.8	985	0.193	0.247	13.59	6.46
1x120	12.9	20.6	1229	0.153	0.196	17.17	8.16
1x150	14.4	22.6	1511	0.124	0.160	21.46	10.20
1x185	16.0	24.8	1878	0.0991	0.128	26.47	12.58
1x240	18.4	27.5	2438	0.0754	0.0989	34.34	16.32
1x300	20.6	30.1	3030	0.0601	0.0802	42.93	20.40
1x400	23.4	33.5	3854	0.0470	0.0644	57.23	27.20
1x500	26.2	37.0	4910	0.0366	0.0522	71.54	34.00
1x630	29.8	41.2	6307	0.0283	0.0430	90.14	42.84

CU/XLPE/PVC

Multi core XLPE insulated cables with copper conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
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°C to +90°C
Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x1.5	1.53	12.2	117	12.1	15.4	0.26	0.20
2x2.5	1.98	13.1	146	7.41	9.45	0.41	0.34
2x4	2.49	14.1	186	4.61	5.88	0.64	0.54
2x6	3.06	15.3	236	3.08	3.93	0.94	0.82
2x10	3.83	17.3	340	1.83	2.33	1.53	1.36
2x16	4.80	19.4	478	1.15	1.47	2.29	2.18
2x25	6.0	22.0	693	0.727	0.927	3.58	3.40
2x35	7.0	24.0	902	0.524	0.669	5.01	4.76
2x50	8.1	26.6	1176	0.387	0.494	7.15	6.80
2x70	9.8	30.5	1639	0.268	0.343	10.02	9.52
2x95	11.4	33.9	2198	0.193	0.247	13.59	12.92
2x120	12.9	37.5	2746	0.153	0.197	17.17	16.32
2x150	14.4	41.6	3382	0.124	0.160	21.46	20.40
2x185	16.0	46.0	4202	0.0991	0.129	26.47	25.16
2x240	18.4	51.8	5446	0.0754	0.0996	34.34	32.64
2x300	20.6	57.2	6761	0.0601	0.0810	42.93	40.80
2x400	23.4	64.4	8606	0.0470	0.0654	57.23	54.40
3x1.5	1.53	12.7	138	12.1	15.4	0.26	0.31
3x2.5	1.98	13.7	177	7.41	9.45	0.41	0.51

Product Parameter

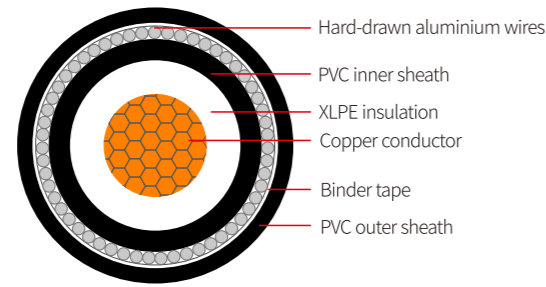
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x4	2.49	14.8	231	4.61	5.88	0.64	0.82
3x6	3.06	16.0	301	3.08	3.93	0.94	1.22
3x10	3.83	18.2	444	1.83	2.33	1.53	2.04
3x16	4.80	20.4	637	1.15	1.47	2.29	3.26
3x25	6.0	23.2	939	0.727	0.927	3.58	5.10
3x35	7.0	25.4	1237	0.524	0.669	5.01	7.14
3x50	8.1	28.2	1625	0.387	0.494	7.15	10.20
3x70	9.8	32.6	2290	0.268	0.343	10.02	14.28
3x95	11.4	36.2	3089	0.193	0.247	13.59	19.38
3x120	12.9	40.2	3867	0.153	0.197	17.17	24.48
3x150	14.4	44.7	4766	0.124	0.160	21.46	30.60
3x185	16.0	49.5	5932	0.0991	0.129	26.47	37.74
3x240	18.4	55.8	7708	0.0754	0.0996	34.34	48.96
3x300	20.6	61.6	9588	0.0601	0.081	42.93	61.20
3x400	23.4	69.4	12217	0.0470	0.0654	57.23	81.60
4x1.5	1.53	13.5	165	12.1	15.4	0.26	0.41
4x2.5	1.98	14.6	214	7.41	9.45	0.41	0.68
4x4	2.49	15.9	284	4.61	5.88	0.64	1.09
4x6	3.06	17.2	373	3.08	3.93	0.94	1.63
4x10	3.83	19.6	559	1.83	2.33	1.53	2.72
4x16	4.80	22.2	810	1.15	1.47	2.29	4.35
4x25	6.0	25.3	1205	0.727	0.927	3.58	6.80
4x35	7.0	27.7	1596	0.524	0.669	5.01	9.52
4x50	8.1	31.1	2116	0.387	0.494	7.15	13.60
4x70	9.8	35.9	2989	0.268	0.343	10.02	19.04
4x95	11.4	40.1	4043	0.193	0.247	13.59	25.84
4x120	12.9	44.6	5065	0.153	0.197	17.17	32.64
4x150	14.4	49.7	6248	0.124	0.160	21.46	40.80
4x185	16.0	55.2	7782	0.0991	0.129	26.47	50.32

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
4x240	18.4	62.2	10123	0.0754	0.0996	34.34	65.28
4x300	20.6	68.7	12600	0.0601	0.081	42.93	81.60
4x400	23.4	77.4	16062	0.0470	0.0654	57.23	108.80
5x1.5	1.53	14.4	192	12.1	15.4	0.26	0.51
5x2.5	1.98	15.6	252	7.41	9.45	0.41	0.85
5x4	2.49	17.0	339	4.61	5.88	0.64	1.36
5x6	3.06	18.5	449	3.08	3.93	0.94	2.04
5x10	3.83	21.2	678	1.83	2.33	1.53	3.40
5x16	4.80	24.1	988	1.15	1.47	2.29	5.44
5x25	6.0	27.6	1479	0.727	0.927	3.58	8.50
5x35	7.0	30.4	1970	0.524	0.669	5.01	11.90
5x50	8.1	34.1	2623	0.387	0.494	7.15	17.00
5x70	9.8	39.6	3710	0.268	0.343	10.02	23.80
5x95	11.4	44.3	5024	0.193	0.247	13.59	32.30
5x120	12.9	49.4	6298	0.153	0.197	17.17	40.80
5x150	14.4	55.2	7771	0.124	0.160	21.46	51.00
5x185	16.0	61.2	9685	0.0991	0.129	26.47	62.90
5x240	18.4	69.1	12603	0.0754	0.0996	34.34	81.60
5x300	20.6	76.3	15694	0.0601	0.081	42.93	102.00
5x400	23.4	86.1	20013	0.0470	0.0654	57.23	136.00

CU/XLPE/PVC/AWA/PVC

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



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
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 °C 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

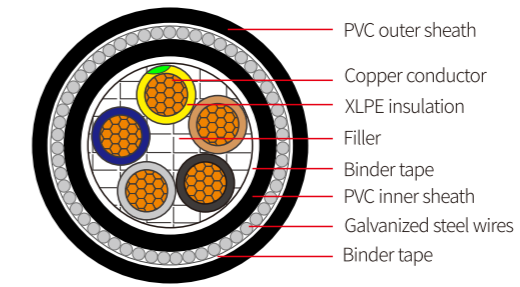
For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x1.5	1.53	13.2	153	12.1	15.4	0.26	0.35
1x2.5	1.98	13.6	172	7.41	9.45	0.41	0.39
1x4	2.49	14.1	196	4.61	5.88	0.64	0.43
1x6	3.06	14.7	226	3.08	3.93	0.94	0.47
1x10	3.83	15.7	285	1.83	2.33	1.53	0.55
1x16	4.80	16.7	359	1.15	1.47	2.29	0.61
1x25	6.0	18.0	474	0.727	0.927	3.58	0.71
1x35	7.0	19.0	583	0.524	0.668	5.01	0.78
1x50	8.1	21.2	767	0.387	0.494	7.15	1.34
1x70	9.8	23.1	1007	0.268	0.342	10.02	1.58
1x95	11.4	24.7	1284	0.193	0.247	13.59	1.77
1x120	12.9	27.1	1599	0.153	0.196	17.17	2.51
1x150	14.4	29.0	1906	0.124	0.159	21.46	2.74
1x185	16.0	31.0	2303	0.0991	0.128	26.47	3.06
1x240	18.4	33.8	2913	0.0754	0.0982	34.34	3.45
1x300	20.6	36.4	3547	0.0601	0.0793	42.93	3.76
1x400	23.4	41.1	4563	0.0470	0.0633	57.23	5.39
1x500	26.2	44.6	5684	0.0366	0.051	71.54	5.88
1x630	29.8	49.1	7171	0.0283	0.0415	90.14	6.62

CU/XLPE/PVC/SWA/PVC

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



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
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°C to +90°C
Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x1.5	1.53	16.7	337	12.1	15.4	0.26	1.64
2x2.5	1.98	17.6	384	7.41	9.45	0.41	1.79
2x4	2.49	18.6	447	4.61	5.88	0.64	2.01
2x6	3.06	19.7	522	3.08	3.93	0.94	2.22
2x10	3.83	22.6	799	1.83	2.33	1.53	4.12
2x16	4.80	24.7	1002	1.15	1.47	2.29	4.77
2x25	6.0	28.0	1415	0.727	0.927	3.58	6.97
2x35	7.0	30.0	1704	0.524	0.669	5.01	7.81
2x50	8.1	32.7	2085	0.387	0.494	7.15	8.87
2x70	9.8	36.7	2702	0.268	0.343	10.02	10.34
2x95	11.4	41.4	3663	0.193	0.247	13.59	14.51
2x120	12.9	45.2	4373	0.153	0.197	17.17	16.16
2x150	14.4	49.4	5201	0.124	0.160	21.46	18.14
2x185	16.0	55.5	6686	0.0991	0.129	26.47	25.26
2x240	18.4	61.3	8231	0.0754	0.0996	34.34	28.35
2x300	20.6	67.1	9893	0.0601	0.081	42.93	31.44
2x400	23.4	74.3	12141	0.0470	0.0654	57.23	35.56
3x1.5	1.53	17.2	370	12.1	15.4	0.26	1.74
3x2.5	1.98	18.1	431	7.41	9.45	0.41	1.95

Product Parameter

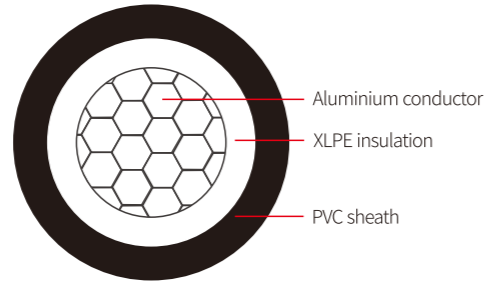
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x4	2.49	19.2	510	4.61	5.88	0.64	2.16
3x6	3.06	21.4	721	3.08	3.93	0.94	3.74
3x10	3.83	23.5	929	1.83	2.33	1.53	4.38
3x16	4.80	25.8	1187	1.15	1.47	2.29	5.03
3x25	6.0	29.3	1719	0.727	0.927	3.58	7.60
3x35	7.0	31.4	2098	0.524	0.669	5.01	8.44
3x50	8.1	34.5	2603	0.387	0.494	7.15	9.50
3x70	9.8	40.1	3691	0.268	0.343	10.02	13.85
3x95	11.4	43.9	4653	0.193	0.247	13.59	15.50
3x120	12.9	48.0	5621	0.153	0.197	17.17	17.48
3x150	14.4	54.1	7157	0.124	0.160	21.46	24.22
3x185	16.0	58.9	8572	0.0991	0.129	26.47	26.80
3x240	18.4	65.6	10745	0.0754	0.0996	34.34	30.41
3x300	20.6	71.4	12969	0.0601	0.081	42.93	34.02
3x400	23.4	79.2	16006	0.0470	0.0654	57.23	38.14
4x1.5	1.53	18.0	414	12.1	15.4	0.26	1.90
4x2.5	1.98	19.1	487	7.41	9.45	0.41	2.11
4x4	2.49	21.2	693	4.61	5.88	0.64	3.61
4x6	3.06	22.6	832	3.08	3.93	0.94	4.12
4x10	3.83	25.0	1084	1.83	2.33	1.53	4.77
4x16	4.80	28.2	1549	1.15	1.47	2.29	7.18
4x25	6.0	31.4	2049	0.727	0.927	3.58	8.23
4x35	7.0	33.9	2550	0.524	0.669	5.01	9.29
4x50	8.1	38.2	3423	0.387	0.494	7.15	13.19
4x70	9.8	43.5	4550	0.268	0.343	10.02	15.50
4x95	11.4	47.9	5796	0.193	0.247	13.59	17.48
4x120	12.9	54.0	7455	0.153	0.197	17.17	24.22
4x150	14.4	59.2	8931	0.124	0.160	21.46	27.32
4x185	16.0	64.6	10720	0.0991	0.129	26.47	29.89

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
4x240	18.4	72.0	13511	0.0754	0.0996	34.34	34.02
4x300	20.6	78.5	16340	0.0601	0.081	42.93	37.63
4x400	23.4	89.2	21241	0.0470	0.0654	57.23	53.19
5x1.5	1.53	18.9	460	12.1	15.4	0.26	2.06
5x2.5	1.98	20.1	549	7.41	9.45	0.41	2.32
5x4	2.49	22.3	786	4.61	5.88	0.64	3.99
5x6	3.06	23.9	946	3.08	3.93	0.94	4.51
5x10	3.83	26.6	1254	1.83	2.33	1.53	5.28
5x16	4.80	30.1	1790	1.15	1.47	2.29	7.81
5x25	6.0	33.7	2412	0.727	0.927	3.58	9.08
5x35	7.0	36.6	3015	0.524	0.669	5.01	10.13
5x50	8.1	41.7	4090	0.387	0.494	7.15	14.51
5x70	9.8	47.3	5433	0.268	0.343	10.02	17.15
5x95	11.4	53.7	7411	0.193	0.247	13.59	24.22
5x120	12.9	58.9	8937	0.153	0.197	17.17	26.80
5x150	14.4	64.6	10709	0.124	0.160	21.46	29.89
5x185	16.0	71.1	13023	0.0991	0.129	26.47	33.50
5x240	18.4	78.9	16348	0.0754	0.0996	34.34	37.63
5x300	20.6	88.1	20859	0.0601	0.081	42.93	53.19
5x400	23.4	97.8	25810	0.0470	0.0654	57.23	59.73

AL/XLPE/PVC

Single core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
 Test voltage: 3.5kV/5mins
 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°C 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

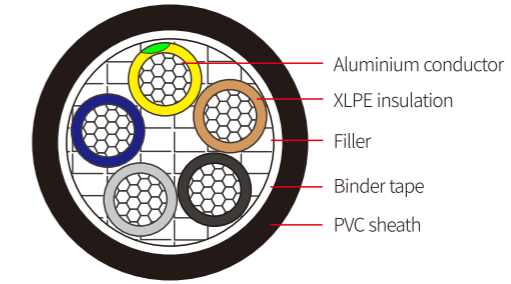
For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x10	3.99	10.4	82	3.08	3.95	1.03	0.39
1x16	5.07	11.5	107	1.91	2.45	1.51	0.62
1x25	6.0	12.8	147	1.20	1.54	2.36	0.98
1x35	7.0	13.8	181	0.868	1.11	3.31	1.37
1x50	8.1	15.1	228	0.641	0.822	4.72	1.95
1x70	9.8	17.1	308	0.443	0.568	6.61	2.73
1x95	11.4	18.8	398	0.320	0.411	8.98	3.71
1x120	12.9	20.6	490	0.253	0.325	11.34	4.68
1x150	14.4	22.6	597	0.206	0.265	14.17	5.85
1x185	16.0	24.8	736	0.164	0.212	17.48	7.22
1x240	18.4	27.5	936	0.125	0.162	22.68	9.36
1x300	20.6	30.1	1143	0.100	0.130	28.35	11.70
1x400	23.4	33.5	1447	0.0778	0.103	37.79	15.60
1x500	26.2	37.0	1820	0.0605	0.0812	47.24	19.50
1x630	29.8	41.2	2307	0.0469	0.0647	59.52	24.57

AL/XLPE/PVC

Multi core XLPE insulated cables with aluminium conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
 Test voltage: 3.5kV/5mins
 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°C to +90°C
 Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

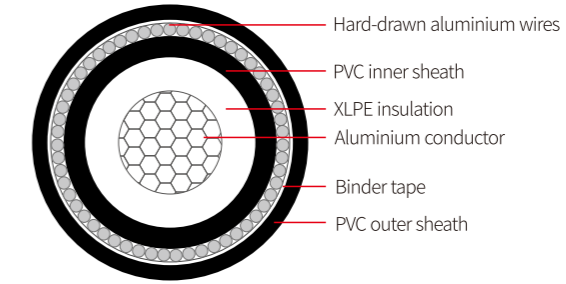
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x10	3.99	17.1	213	3.08	3.95	1.03	0.78
2x16	5.07	19.3	279	1.91	2.45	1.51	1.25
2x25	6.0	22.0	381	1.20	1.54	2.36	1.95
2x35	7.0	24.0	468	0.868	1.11	3.31	2.73
2x50	8.1	26.6	588	0.641	0.822	4.72	3.90
2x70	9.8	30.5	792	0.443	0.569	6.61	5.46
2x95	11.4	33.9	1019	0.320	0.411	8.98	7.41
2x120	12.9	37.5	1261	0.253	0.325	11.34	9.36
2x150	14.4	41.6	1546	0.206	0.265	14.17	11.70
2x185	16.0	46.0	1908	0.164	0.212	17.48	14.43
2x240	18.4	51.8	2429	0.125	0.162	22.68	18.72
2x300	20.6	57.2	2970	0.100	0.131	28.35	23.40
2x400	23.4	64.4	3770	0.0778	0.103	37.79	31.20
3x10	3.99	18.0	254	3.08	3.95	1.03	1.17
3x16	5.07	20.4	338	1.91	2.45	1.51	1.87
3x25	6.0	23.2	471	1.20	1.54	2.36	2.93
3x35	7.0	25.4	586	0.868	1.11	3.31	4.10
3x50	8.1	28.2	743	0.641	0.822	4.72	5.85
3x70	9.8	32.6	1018	0.443	0.569	6.61	8.19

AL/XLPE/PVC/AWA/PVC

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

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x95	11.4	36.2	1321	0.320	0.411	8.98	11.12
3x120	12.9	40.2	1639	0.253	0.325	11.34	14.04
3x150	14.4	44.7	2012	0.206	0.265	14.17	17.55
3x185	16.0	49.5	2492	0.164	0.212	17.48	21.65
3x240	18.4	55.8	3182	0.125	0.162	22.68	28.08
3x300	20.6	61.6	3901	0.100	0.131	28.35	35.10
3x400	23.4	69.4	4962	0.0778	0.103	37.79	46.80
4x10	3.99	19.5	306	3.08	3.95	1.03	1.56
4x16	5.07	22.1	412	1.91	2.45	1.51	2.50
4x25	6.0	25.3	580	1.20	1.54	2.36	3.90
4x35	7.0	27.7	728	0.868	1.11	3.31	5.46
4x50	8.1	31.1	941	0.641	0.822	4.72	7.80
4x70	9.8	35.9	1294	0.443	0.569	6.61	10.92
4x95	11.4	40.1	1685	0.320	0.411	8.98	14.82
4x120	12.9	44.6	2095	0.253	0.325	11.34	18.72
4x150	14.4	49.7	2575	0.206	0.265	14.17	23.40
4x185	16.0	55.2	3195	0.164	0.212	17.48	28.86
4x240	18.4	62.2	4089	0.125	0.162	22.68	37.44
4x300	20.6	68.7	5018	0.100	0.131	28.35	46.80
4x400	23.4	77.4	6389	0.0778	0.103	37.79	62.40
5x10	3.99	21.1	362	3.08	3.95	1.03	1.95
5x16	5.07	24.0	492	1.91	2.45	1.51	3.12
5x25	6.0	27.6	698	1.20	1.54	2.36	4.88
5x35	7.0	30.4	885	0.868	1.11	3.31	6.83
5x50	8.1	34.1	1154	0.641	0.822	4.72	9.75
5x70	9.8	39.6	1591	0.443	0.569	6.61	13.65
5x95	11.4	44.3	2077	0.320	0.411	8.98	18.53
5x120	12.9	49.4	2585	0.253	0.325	11.34	23.40
5x150	14.4	55.2	3181	0.206	0.265	14.17	29.25
5x185	16.0	61.2	3950	0.164	0.212	17.48	36.08
5x240	18.4	69.1	5060	0.125	0.162	22.68	46.80
5x300	20.6	76.3	6217	0.100	0.131	28.35	58.50
5x400	23.4	86.1	7921	0.0778	0.103	37.79	78.00



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV

Test voltage: 3.5kV/5mins

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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

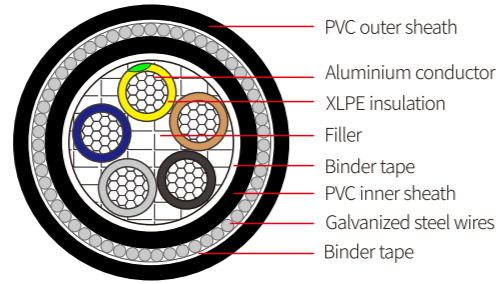
For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x10	3.99	15.6	220	3.08	3.95	1.03	0.53
1x16	5.07	16.7	260	1.91	2.45	1.51	0.61
1x25	6.0	18.0	318	1.20	1.54	2.36	0.71
1x35	7.0	19.0	367	0.868	1.11	3.31	0.78
1x50	8.1	21.2	475	0.641	0.822	4.72	1.34
1x70	9.8	23.1	585	0.443	0.568	6.61	1.58
1x95	11.4	24.7	697	0.320	0.411	8.98	1.77
1x120	12.9	27.1	859	0.253	0.325	11.34	2.51
1x150	14.4	29.0	992	0.206	0.265	14.17	2.74
1x185	16.0	31.0	1162	0.164	0.211	17.48	3.06
1x240	18.4	33.8	1411	0.125	0.162	22.68	3.45
1x300	20.6	36.4	1660	0.100	0.130	28.35	3.76
1x400	23.4	41.1	2156	0.0778	0.102	37.79	5.39
1x500	26.2	44.6	2594	0.0605	0.0803	47.24	5.88
1x630	29.8	49.1	3171	0.0469	0.0637	59.52	6.62

AL/XLPE/PVC/SWA/PVC

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



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV

Test voltage: 3.5kV/5mins

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°C to +90°C

Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

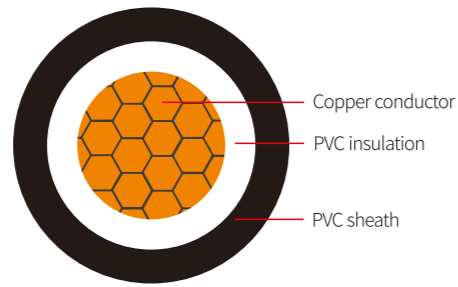
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x10	3.99	22.5	661	3.08	3.95	1.03	3.99
2x16	5.07	24.6	792	1.91	2.45	1.51	4.64
2x25	6.0	28.0	1102	1.20	1.54	2.36	6.97
2x35	7.0	30.0	1270	0.868	1.11	3.31	7.81
2x50	8.1	32.7	1498	0.641	0.822	4.72	8.87
2x70	9.8	36.7	1854	0.443	0.569	6.61	10.34
2x95	11.4	41.4	2484	0.320	0.411	8.98	14.51
2x120	12.9	45.2	2888	0.253	0.325	11.34	16.16
2x150	14.4	49.4	3365	0.206	0.265	14.17	18.14
2x185	16.0	55.5	4393	0.164	0.212	17.48	25.26
2x240	18.4	61.3	5214	0.125	0.162	22.68	28.35
2x300	20.6	67.1	6103	0.100	0.131	28.35	31.44
2x400	23.4	74.3	7304	0.0778	0.103	37.79	35.56
3x10	3.99	23.4	728	3.08	3.95	1.03	4.25
3x16	5.07	25.7	889	1.91	2.45	1.51	5.03
3x25	6.0	29.3	1251	1.20	1.54	2.36	7.60
3x35	7.0	31.4	1447	0.868	1.11	3.31	8.44
3x50	8.1	34.5	1722	0.641	0.822	4.72	9.50
3x70	9.8	40.1	2419	0.443	0.569	6.61	13.85

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 90°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x95	11.4	43.9	2885	0.320	0.411	8.98	15.50
3x120	12.9	48.0	3393	0.253	0.325	11.34	17.48
3x150	14.4	54.1	4403	0.206	0.265	14.17	24.22
3x185	16.0	58.9	5132	0.164	0.212	17.48	26.80
3x240	18.4	65.6	6219	0.125	0.162	22.68	30.41
3x300	20.6	71.4	7283	0.100	0.131	28.35	34.02
3x400	23.4	79.2	8751	0.0778	0.103	37.79	38.14
4x10	3.99	24.8	830	3.08	3.95	1.03	4.77
4x16	5.07	28.1	1135	1.91	2.45	1.51	6.97
4x25	6.0	31.4	1424	1.20	1.54	2.36	8.23
4x35	7.0	33.9	1682	0.868	1.11	3.31	9.29
4x50	8.1	38.2	2029	0.641	0.822	4.72	10.56
4x70	9.8	43.5	2855	0.443	0.569	6.61	15.50
4x95	11.4	47.9	3439	0.320	0.411	8.98	17.48
4x120	12.9	54.0	4484	0.253	0.325	11.34	24.22
4x150	14.4	59.2	5258	0.206	0.265	14.17	27.32
4x185	16.0	64.6	6133	0.164	0.212	17.48	29.89
4x240	18.4	72.0	7477	0.125	0.162	22.68	34.02
4x300	20.6	78.5	8758	0.100	0.131	28.35	37.63
4x400	23.4	89.2	11567	0.0778	0.103	37.79	53.19
5x10	3.99	26.4	927	3.08	3.95	1.03	5.15
5x16	5.07	30.0	1293	1.91	2.45	1.51	7.81
5x25	6.0	33.7	1631	1.20	1.54	2.36	9.08
5x35	7.0	36.6	1930	0.868	1.11	3.31	10.13
5x50	8.1	41.7	2621	0.641	0.822	4.72	14.51
5x70	9.8	47.3	3314	0.443	0.569	6.61	17.15
5x95	11.4	53.7	4464	0.320	0.411	8.98	24.22
5x120	12.9	58.9	5224	0.253	0.325	11.34	26.80
5x150	14.4	64.6	6119	0.206	0.265	14.17	29.89
5x185	16.0	71.1	7412	0.164	0.212	17.48	33.50
5x240	18.4	78.9	8805	0.125	0.162	22.68	37.63
5x300	20.6	88.1	11382	0.100	0.131	28.35	53.19
5x400	23.4	97.8	13718	0.0778	0.103	37.79	59.73

CU/PVC/PVC

Single core PVC insulated cables with copper conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA≤300mm²), 140°C (CSA>300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: White
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. Flame retardant, Fire resistant, Low smoke & Halogen free, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

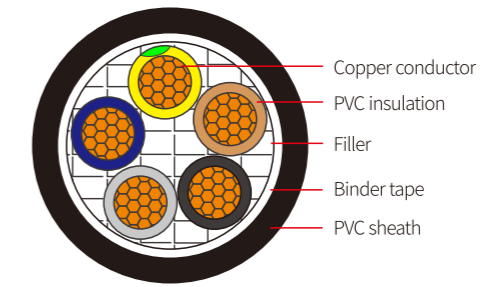
For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x1.5	1.53	8.1	53	12.1	14.5	0.19	0.10
1x2.5	1.98	8.6	66	7.41	8.87	0.32	0.17
1x4	2.49	9.5	91	4.61	5.52	0.50	0.27
1x6	3.06	10.1	115	3.08	3.69	0.73	0.41
1x10	3.83	11.1	163	1.83	2.19	1.20	0.68
1x16	4.80	12.1	227	1.15	1.38	1.84	1.09
1x25	6.0	13.4	329	0.727	0.870	2.88	1.70
1x35	7.0	14.4	427	0.524	0.627	4.03	2.38
1x50	8.1	15.9	564	0.387	0.463	5.75	3.40
1x70	9.8	17.7	775	0.268	0.321	8.05	4.76
1x95	11.4	19.9	1052	0.193	0.232	10.93	6.46
1x120	12.9	21.5	1297	0.153	0.184	13.80	8.16
1x150	14.4	23.5	1592	0.124	0.150	17.25	10.20
1x185	16.0	25.6	1973	0.0991	0.121	21.28	12.58
1x240	18.4	28.6	2562	0.0754	0.0930	27.60	16.32
1x300	20.6	31.4	3185	0.0601	0.0754	34.50	20.40
1x400	23.4	34.8	4038	0.0470	0.0607	41.12	27.20
1x500	26.2	38.2	5123	0.0366	0.0494	51.40	34.00
1x630	29.8	42.1	6519	0.0283	0.0408	64.77	42.84

CU/PVC/PVC

Multi core PVC insulated cables with copper conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA≤300mm²), 140°C (CSA>300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x2.5	1.98	13.5	161	7.41	8.87	0.32	0.34
2x4	2.49	15.3	221	4.61	5.52	0.50	0.54
2x6	3.06	16.5	275	3.08	3.69	0.73	0.82
2x10	3.83	18.5	386	1.83	2.19	1.20	1.36
2x16	4.80	20.6	530	1.15	1.38	1.84	2.18
2x25	6.0	23.2	758	0.727	0.870	1.88	3.40
2x35	7.0	25.2	974	0.524	0.627	4.05	4.76
2x50	8.1	28.2	1276	0.387	0.464	5.75	6.80
2x70	9.8	31.8	1746	0.268	0.322	8.05	9.52
2x95	11.4	36.0	2366	0.193	0.232	10.93	12.92
2x120	12.9	39.2	2911	0.153	0.185	13.80	16.32
2x150	14.4	43.3	3577	0.124	0.150	17.25	20.40
2x185	16.0	47.8	4429	0.0991	0.121	21.28	25.16
2x240	18.4	54.1	5746	0.0754	0.0937	27.60	32.64
2x300	20.6	59.9	7140	0.0601	0.0762	34.50	40.80
2x400	23.4	67.1	9051	0.0470	0.0616	41.12	54.40
3x1.5	1.53	14.0	188	12.1	14.5	0.19	0.41
3x2.5	1.98	15.1	240	7.41	8.87	0.32	0.51
3x4	2.49	17.3	342	4.61	5.52	0.50	0.82

Product Parameter

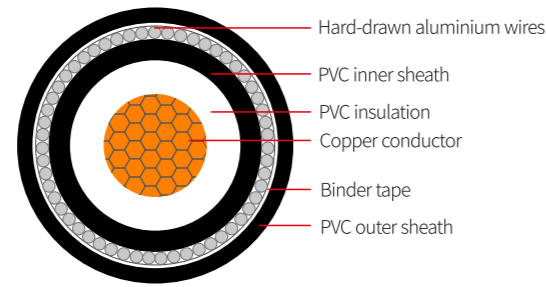
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x6	3.06	18.7	438	3.08	3.69	0.73	1.22
3x10	3.83	21.1	635	1.83	2.19	1.20	2.04
3x16	4.80	23.6	898	1.15	1.38	1.84	3.26
3x25	6.0	26.8	1318	0.727	0.870	2.88	5.10
3x35	7.0	29.2	1723	0.524	0.627	4.03	7.14
3x50	8.1	33.1	2301	0.387	0.464	5.75	10.20
3x70	9.8	37.5	3179	0.268	0.322	8.05	14.28
3x95	11.4	42.7	4337	0.193	0.232	10.93	19.38
3x120	12.9	46.8	5359	0.153	0.185	13.80	24.48
3x150	14.4	51.9	6596	0.124	0.150	17.25	30.60
3x185	16.0	57.3	8192	0.0991	0.121	21.28	37.74
3x240	18.4	64.9	10660	0.0754	0.0937	27.60	48.96
3x300	20.6	71.9	13277	0.0601	0.0762	34.50	61.20
3x400	23.4	80.7	16860	0.0470	0.0616	41.12	81.60
4x1.5	1.53	13.2	157	12.1	14.5	0.19	0.41
4x2.5	1.98	14.1	198	7.41	8.87	0.32	0.68
4x4	2.49	16.1	277	4.61	5.52	0.50	1.09
4x6	3.06	17.3	352	3.08	3.69	0.73	1.63
4x10	3.83	19.5	504	1.83	2.19	1.20	2.72
4x16	4.80	21.7	706	1.15	1.38	1.84	4.35
4x25	6.0	24.5	1026	0.727	0.870	2.88	6.80
4x35	7.0	26.7	1334	0.524	0.627	4.03	9.52
4x50	8.1	30.1	1768	0.387	0.464	5.75	13.60
4x70	9.8	33.9	2436	0.268	0.322	8.05	19.04
4x95	11.4	38.6	3316	0.193	0.232	10.93	25.84
4x120	12.9	42.0	4092	0.153	0.185	13.80	32.64
4x150	14.4	46.6	5033	0.124	0.150	17.25	40.80
4x185	16.0	51.4	6246	0.0991	0.121	21.28	50.32
4x240	18.4	58.2	8121	0.0754	0.0937	27.60	65.28

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
4x300	20.6	64.5	10107	0.0601	0.0762	34.50	81.60
4x400	23.4	72.3	12827	0.0470	0.0616	41.12	108.80
5x1.5	1.53	15.0	221	12.1	14.5	0.19	0.51
5x2.5	1.98	16.2	285	7.41	8.87	0.32	0.85
5x4	2.49	18.6	410	4.61	5.52	0.50	1.36
5x6	3.06	20.2	528	3.08	3.69	0.73	2.04
5x10	3.83	22.8	772	1.83	2.19	1.20	3.40
5x16	4.80	25.7	1097	1.15	1.38	1.84	5.44
5x25	6.0	29.2	1617	0.727	0.870	2.88	8.50
5x35	7.0	32.1	2133	0.524	0.627	4.03	11.90
5x50	8.1	36.5	2853	0.387	0.464	5.75	17.00
5x70	9.8	41.3	3946	0.268	0.322	8.05	23.80
5x95	11.4	47.3	5388	0.193	0.232	10.93	32.30
5x120	12.9	51.9	6662	0.153	0.185	13.80	40.80
5x150	14.4	57.6	8205	0.124	0.150	17.25	51.00
5x185	16.0	63.7	10195	0.0991	0.121	21.28	62.90
5x240	18.4	72.1	13273	0.0754	0.0937	27.60	81.60
5x300	20.6	80.0	16537	0.0601	0.0762	34.50	102.00
5x400	23.4	89.7	21008	0.0470	0.0616	41.12	136.00

CU/PVC/PVC/AWA/PVC

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



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: White
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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

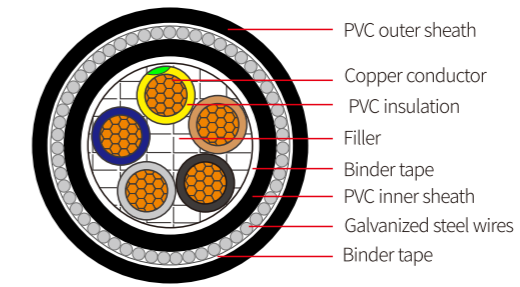
For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x1.5	1.53	13.4	162	12.1	14.5	0.19	0.37
1x2.5	1.98	13.8	181	7.41	8.87	0.31	0.41
1x4	2.49	14.7	218	4.61	5.52	0.48	0.47
1x6	3.06	15.3	249	3.08	3.69	0.71	0.51
1x10	3.83	16.3	311	1.83	2.19	1.17	0.59
1x16	4.80	17.3	390	1.15	1.38	1.78	0.67
1x25	6.0	18.6	508	0.727	0.870	2.78	0.74
1x35	7.0	20.5	664	0.524	0.627	3.90	0.82
1x50	8.1	22.0	822	0.387	0.463	5.57	1.44
1x70	9.8	23.7	1058	0.268	0.321	7.79	1.63
1x95	11.4	26.4	1406	0.193	0.232	10.58	1.87
1x120	12.9	27.9	1676	0.153	0.184	13.36	2.59
1x150	14.4	29.8	2001	0.124	0.150	16.70	2.90
1x185	16.0	31.9	2411	0.0991	0.120	20.60	3.14
1x240	18.4	34.9	3050	0.0754	0.0923	26.72	3.53
1x300	20.6	38.5	3809	0.0601	0.0746	33.40	4.90
1x400	23.4	42.4	4766	0.0470	0.0596	39.47	5.51
1x500	26.2	45.9	5926	0.0366	0.0481	49.34	6.13
1x630	29.8	51.1	7545	0.0283	0.0393	62.17	6.74

CU/PVC/PVC/SWA/PVC

Multi core PVC Insulated cables with copper conductor and steel wires armour



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x1.5	1.53	17.1	361	12.1	14.5	0.19	1.74
2x2.5	1.98	18.0	410	7.41	8.87	0.31	1.90
2x4	2.49	19.8	511	4.61	5.52	0.48	2.27
2x6	3.06	21.8	709	3.08	3.69	0.71	3.87
2x10	3.83	23.8	873	1.83	2.19	1.17	4.38
2x16	4.80	25.9	1082	1.15	1.38	1.78	5.03
2x25	6.0	29.2	1520	0.727	0.870	2.78	7.39
2x35	7.0	31.2	1816	0.524	0.627	3.90	8.23
2x50	8.1	34.4	2255	0.387	0.464	5.57	9.50
2x70	9.8	38.9	3084	0.268	0.322	7.79	13.52
2x95	11.4	43.6	3928	0.193	0.232	10.58	15.50
2x120	12.9	47.0	4605	0.153	0.185	13.36	16.82
2x150	14.4	52.4	5832	0.124	0.150	16.70	23.19
2x185	16.0	57.3	7012	0.0991	0.121	20.60	26.29
2x240	18.4	63.5	8633	0.0754	0.0937	26.72	29.38
2x300	20.6	69.8	10423	0.0601	0.0762	33.40	32.99
2x400	23.4	77.0	12694	0.0470	0.0616	39.47	36.59
3x1.5	1.53	17.6	399	12.1	14.5	0.19	1.85
3x2.5	1.98	18.6	459	7.41	8.87	0.31	2.01

Product Parameter

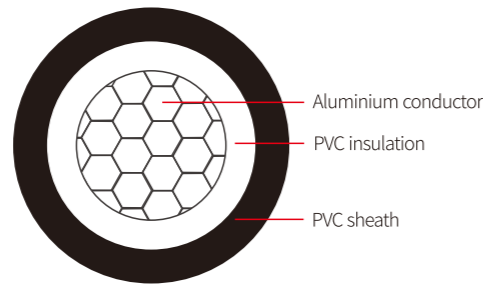
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x4	2.49	21.4	698	4.61	5.52	0.48	3.74
3x6	3.06	22.7	811	3.08	3.69	0.71	4.12
3x10	3.83	24.8	1028	1.83	2.19	1.17	4.77
3x16	4.80	27.8	1426	1.15	1.38	1.78	6.97
3x25	6.0	30.6	1848	0.727	0.870	2.78	8.02
3x35	7.0	32.8	2243	0.524	0.627	3.90	8.87
3x50	8.1	36.3	2811	0.387	0.464	5.57	10.13
3x70	9.8	41.5	3901	0.268	0.322	7.79	14.51
3x95	11.4	46.3	4978	0.193	0.232	10.58	16.49
3x120	12.9	49.9	5914	0.153	0.185	13.36	18.14
3x150	14.4	56.0	7524	0.124	0.150	16.70	25.26
3x185	16.0	60.9	8986	0.0991	0.121	20.60	27.83
3x240	18.4	68.1	11305	0.0754	0.0937	26.72	31.96
3x300	20.6	74.3	13641	0.0601	0.0762	33.40	35.56
3x400	23.4	83.6	17620	0.0470	0.0616	39.47	49.91
4x1.5	1.53	18.5	449	12.1	14.5	0.19	2.01
4x2.5	1.98	19.5	525	7.41	8.87	0.31	2.22
4x4	2.49	22.6	801	4.61	5.52	0.48	4.12
4x6	3.06	24.0	936	3.08	3.69	0.71	4.51
4x10	3.83	26.4	1210	1.83	2.19	1.17	5.28
4x16	4.80	29.7	1681	1.15	1.38	1.78	7.60
4x25	6.0	32.9	2225	0.727	0.870	2.78	8.87
4x35	7.0	35.5	2726	0.524	0.627	3.90	9.71
4x50	8.1	40.7	3734	0.387	0.464	5.57	14.18
4x70	9.8	45.2	4806	0.268	0.322	7.79	16.16
4x95	11.4	51.7	6587	0.193	0.232	10.58	23.19
4x120	12.9	56.2	7892	0.153	0.185	13.36	25.77
4x150	14.4	61.3	9381	0.124	0.150	16.70	28.35
4x185	16.0	67.2	11327	0.0991	0.121	20.60	31.44

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
4x240	18.4	74.8	14199	0.0754	0.0937	26.72	35.56
4x300	20.6	81.8	17173	0.0601	0.0762	33.40	39.17
4x400	23.4	92.4	22271	0.0470	0.0616	39.47	55.64
5x1.5	1.53	19.4	501	12.1	14.5	0.19	2.16
5x2.5	1.98	21.5	706	7.41	8.87	0.31	3.74
5x4	2.49	24.0	908	4.61	5.52	0.48	4.51
5x6	3.06	25.5	1066	3.08	3.69	0.71	4.90
5x10	3.83	28.9	1532	1.83	2.19	1.17	7.39
5x16	4.80	31.7	1960	1.15	1.38	1.78	8.44
5x25	6.0	35.4	2620	0.727	0.870	2.78	9.71
5x35	7.0	39.2	3474	0.524	0.627	3.90	13.52
5x50	8.1	44.1	4445	0.387	0.464	5.57	15.83
5x70	9.8	49.2	5737	0.268	0.322	7.79	17.81
5x95	11.4	56.8	7926	0.193	0.232	10.58	25.77
5x120	12.9	61.3	9447	0.153	0.185	13.36	28.35
5x150	14.4	67.5	11342	0.124	0.150	16.70	31.44
5x185	16.0	73.5	13680	0.0991	0.121	20.60	35.05
5x240	18.4	83.4	18063	0.0754	0.0937	26.72	49.91
5x300	20.6	91.7	21938	0.0601	0.0762	33.40	55.64
5x400	23.4	101.5	27041	0.0470	0.0616	39.47	62.19

AL/PVC/PVC

Single core PVC insulated cables with aluminium conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: White
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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

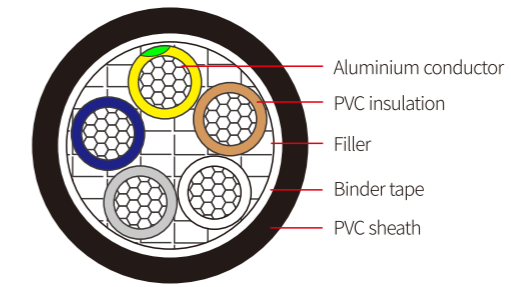
For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x10	3.99	11.0	100	3.08	3.70	0.81	0.39
1x16	5.07	12.1	128	1.91	2.29	1.22	0.62
1x25	6.0	13.4	174	1.20	1.44	1.90	0.98
1x35	7.0	14.4	211	0.868	1.04	2.66	1.37
1x50	8.1	15.9	271	0.641	0.77	3.80	1.95
1x70	9.8	17.7	353	0.443	0.533	5.32	2.73
1x95	11.4	19.9	465	0.320	0.385	7.22	3.71
1x120	12.9	21.5	558	0.253	0.305	9.12	4.68
1x150	14.4	23.5	678	0.206	0.249	11.40	5.85
1x185	16.0	25.6	831	0.164	0.198	14.07	7.22
1x240	18.4	28.6	1060	0.125	0.152	18.25	9.36
1x300	20.6	31.4	1298	0.100	0.122	22.81	11.70
1x400	23.4	34.8	1630	0.0778	0.0963	27.19	15.60
1x500	26.2	38.2	2034	0.0605	0.0763	33.99	19.50
1x630	29.8	42.1	2518	0.0469	0.0611	42.83	24.57

AL/PVC/PVC

Multi core PVC insulated cables with aluminium conductor



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV
Test voltage: 3.5kV/5mins
Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)
Operating conductor temperature: 70°C
Min. temperature for laying and manipulation with cables: -5°C
Temperature range for operating: from -35°C to +70°C
Colour of insulation: 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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

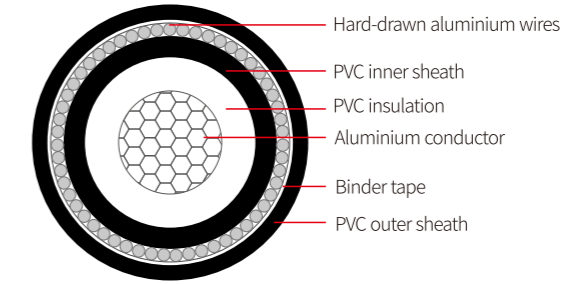
No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x10	3.99	18.3	258	3.08	3.70	0.81	0.78
2x16	5.07	20.5	331	1.91	2.29	1.22	1.25
2x25	6.0	23.2	445	1.20	1.44	1.90	1.95
2x35	7.0	25.2	540	0.868	1.04	2.66	2.73
2x50	8.1	28.2	689	0.641	0.771	3.80	3.90
2x70	9.8	31.8	898	0.443	0.533	5.32	5.46
2x95	11.4	36.0	1187	0.320	0.385	7.22	7.41
2x120	12.9	39.2	1426	0.253	0.305	9.12	9.36
2x150	14.4	43.3	1741	0.206	0.249	11.40	11.70
2x185	16.0	47.8	2135	0.164	0.199	14.07	14.43
2x240	18.4	54.1	2729	0.125	0.152	18.25	18.72
2x300	20.6	59.9	3349	0.100	0.123	22.81	23.40
2x400	23.4	67.1	4214	0.0778	0.0969	27.19	31.20
3x10	3.99	19.3	313	3.08	3.70	0.81	1.17
3x16	5.07	21.7	407	1.91	2.29	1.22	1.87
3x25	6.0	24.5	558	1.20	1.44	1.90	2.93
3x35	7.0	26.7	683	0.868	1.04	2.66	4.10
3x50	8.1	30.1	886	0.641	0.771	3.80	5.85
3x70	9.8	33.9	1164	0.443	0.533	5.32	8.19

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of conductor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x95	11.4	38.6	1548	0.320	0.385	7.22	11.12
3x120	12.9	42.0	1864	0.253	0.305	9.12	14.04
3x150	14.4	46.6	2279	0.206	0.249	11.40	17.55
3x185	16.0	51.4	2805	0.164	0.199	14.07	21.65
3x240	18.4	58.2	3595	0.125	0.152	18.25	28.08
3x300	20.6	64.5	4420	0.100	0.123	22.81	35.10
3x400	23.4	72.3	5571	0.0778	0.0969	27.19	46.80
4x10	3.99	20.9	382	3.08	3.70	0.81	1.56
4x16	5.07	23.6	501	1.91	2.29	1.22	2.50
4x25	6.0	26.8	693	1.20	1.44	1.90	3.90
4x35	7.0	29.2	855	0.868	1.04	2.66	5.46
4x50	8.1	33.1	1126	0.641	0.771	3.80	7.80
4x70	9.8	37.5	1484	0.443	0.533	5.32	10.92
4x95	11.4	42.7	1979	0.320	0.385	7.22	14.82
4x120	12.9	46.8	2388	0.253	0.305	9.12	18.72
4x150	14.4	51.9	2923	0.206	0.249	11.40	23.40
4x185	16.0	57.3	3604	0.164	0.199	14.07	28.86
4x240	18.4	64.9	4626	0.125	0.152	18.25	37.44
4x300	20.6	71.9	5695	0.100	0.123	22.81	46.80
4x400	23.4	80.7	7187	0.0778	0.0969	27.19	62.40
5x10	3.99	22.7	455	3.08	3.70	0.81	1.95
5x16	5.07	25.6	600	1.91	2.29	1.22	3.12
5x25	6.0	29.2	836	1.20	1.44	1.90	4.88
5x35	7.0	32.1	1048	0.868	1.04	2.66	6.83
5x50	8.1	36.5	1384	0.641	0.771	3.80	9.75
5x70	9.8	41.3	1827	0.443	0.533	5.32	13.65
5x95	11.4	47.3	2441	0.320	0.385	7.22	18.53
5x120	12.9	51.9	2949	0.253	0.305	9.12	23.40
5x150	14.4	57.6	3614	0.206	0.249	11.40	29.25
5x185	16.0	63.7	4460	0.164	0.199	14.07	36.08
5x240	18.4	72.1	5730	0.125	0.152	18.25	46.80
5x300	20.6	80.0	7059	0.100	0.123	22.81	58.50
5x400	23.4	89.7	8916	0.0778	0.0969	27.19	78.00

AL/PVC/PVC/AWA/PVC

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



Standard: IEC 60502-1

Technical data
Rated voltage: 0.6/1(1.2)kV

Test voltage: 3.5kV/5mins

Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)

Operating conductor temperature: 70°C

Min. temperature for laying and manipulation with cables: -5°C

Temperature range for operating: from -35°C to +70°C

Colour of insulation: White

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. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

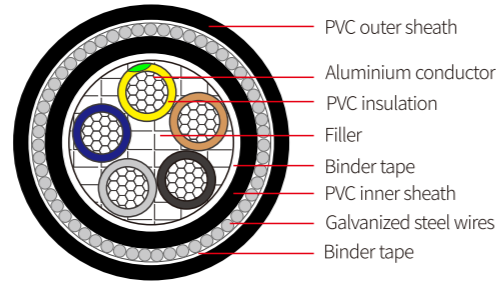
For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
1x10	3.99	16.2	248	3.08	3.70	0.78	0.59
1x16	5.07	17.3	291	1.91	2.29	1.18	0.67
1x25	6.0	18.6	353	1.20	1.44	1.84	0.74
1x35	7.0	20.5	448	0.868	1.04	2.58	0.82
1x50	8.1	22.0	530	0.641	0.770	3.68	1.44
1x70	9.8	23.7	636	0.443	0.533	5.15	1.63
1x95	11.4	26.4	819	0.320	0.385	6.99	1.87
1x120	12.9	27.9	936	0.253	0.305	8.83	2.59
1x150	14.4	29.8	1087	0.206	0.248	11.04	2.90
1x185	16.0	31.9	1269	0.164	0.198	13.62	3.14
1x240	18.4	34.9	1549	0.125	0.151	17.66	3.53
1x300	20.6	38.5	1923	0.100	0.122	22.08	4.90
1x400	23.4	42.4	2359	0.0778	0.0956	26.10	5.51
1x500	26.2	45.9	2837	0.0605	0.0755	32.62	6.13
1x630	29.8	51.1	3544	0.0469	0.0600	41.11	6.74

AL/PVC/PVC/SWA/PVC

Multi core PVC Insulated cables with aluminium conductor and steel wires armour



Standard: IEC 60502-1

Technical data

Rated voltage: 0.6/1(1.2)kV

Test voltage: 3.5kV/5mins

Max. Short-circuit temperature: 160°C (CSA ≤ 300mm²), 140°C (CSA > 300mm²)

Operating conductor temperature: 70°C

Min. temperature for laying and manipulation with cables: -5°C

Temperature range for operating: from -35°C to +70°C

Colour of insulation: 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, AIEC etc. is also available. Flame retardant, Fire resistant, Low smoke & Low halogen, Cold resistant, UV resistant, Oil resistant, Anti-rodent, Anti-termite, water proof are available.

Application

For fixed installation, indoors and outdoors, in the ground and in concrete with higher risk of mechanical damage. The cables are resistant to UV radiation and flame propagation according to IEC 60332.

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
2x10	3.99	23.7	744	3.08	3.70	0.78	4.38
2x16	5.07	25.8	882	1.91	2.29	1.18	5.03
2x25	6.0	29.2	1208	1.20	1.44	1.84	7.39
2x35	7.0	31.2	1383	0.868	1.04	2.58	8.23
2x50	8.1	34.4	1667	0.641	0.771	3.68	9.50
2x70	9.8	38.9	2236	0.443	0.533	5.15	13.52
2x95	11.4	43.6	2749	0.320	0.385	6.99	15.50
2x120	12.9	47.0	3120	0.253	0.305	8.83	16.82
2x150	14.4	52.4	3996	0.206	0.249	11.04	23.19
2x185	16.0	57.3	4719	0.164	0.199	13.62	26.29
2x240	18.4	63.5	5616	0.125	0.152	17.66	29.38
2x300	20.6	69.8	6632	0.100	0.123	22.08	32.99
2x400	23.4	77.0	7858	0.0778	0.0969	26.10	36.59
3x10	3.99	24.7	826	3.08	3.70	0.78	4.64
3x16	5.07	27.7	1127	1.91	2.29	1.18	6.97
3x25	6.0	30.6	1379	1.20	1.44	1.84	8.02
3x35	7.0	32.8	1592	0.868	1.04	2.58	8.87
3x50	8.1	36.3	1929	0.641	0.771	3.68	10.13
3x70	9.8	41.5	2630	0.443	0.533	5.15	14.51

Product Parameter

No. Cores & Cross section area	Approx. diameter of conductor	Max. diameter of cable	Approx. mass of cable	Max. DC resistance of conductor at 20°C	Max. AC resistance of conductor at 70°C	Fault current carrying of conductor (1s)	Max. allowable pulling force of armor
	mm	mm	kg/km	Ω/km	Ω/km	kA	kN
3x95	11.4	46.3	3210	0.320	0.385	6.99	16.49
3x120	12.9	49.9	3687	0.253	0.305	8.83	18.14
3x150	14.4	56.0	4770	0.206	0.249	11.04	25.26
3x185	16.0	60.9	5545	0.164	0.199	13.62	27.83
3x240	18.4	68.1	6779	0.125	0.152	17.66	31.96
3x300	20.6	74.3	7955	0.100	0.123	22.08	35.56
3x400	23.4	83.6	10364	0.0778	0.0969	26.10	49.91
4x10	3.99	26.3	946	3.08	3.70	0.78	5.15
4x16	5.07	29.6	1283	1.91	2.29	1.18	7.60
4x25	6.0	32.9	1601	1.20	1.44	1.84	8.87
4x35	7.0	35.5	1858	0.868	1.04	2.58	9.71
4x50	8.1	40.7	2559	0.641	0.771	3.68	14.18
4x70	9.8	45.2	3110	0.443	0.533	5.15	16.16
4x95	11.4	51.7	4229	0.320	0.385	6.99	23.19
4x120	12.9	56.2	4921	0.253	0.305	8.83	25.77
4x150	14.4	61.3	5709	0.206	0.249	11.04	28.35
4x185	16.0	67.2	6739	0.164	0.199	13.62	31.44
4x240	18.4	74.8	8165	0.125	0.152	17.66	35.56
4x300	20.6	81.8	9591	0.100	0.123	22.08	39.17
4x400	23.4	92.4	12597	0.0778	0.0969	26.10	55.64
5x10	3.99	28.7	1198	3.08	3.70	0.78	7.18
5x16	5.07	31.6	1463	1.91	2.29	1.18	8.44
5x25	6.0	35.4	1839	1.20	1.44	1.84	9.71
5x35	7.0	39.2	2389	0.868	1.04	2.58	13.52
5x50	8.1	44.1	2977	0.641	0.771	3.68	15.83
5x70	9.8	49.2	3617	0.443	0.533	5.15	17.81
5x95	11.4	56.8	4980	0.320	0.385	6.99	25.77
5x120	12.9	61.3	5734	0.253	0.305	8.83	28.35
5x150	14.4	67.5	6752	0.206	0.249	11.04	31.44
5x185	16.0	73.5	7946	0.164	0.199	13.62	35.05
5x240	18.4	83.4	10521	0.125	0.152	17.66	49.91
5x300	20.6	91.7	12461	0.100	0.123	22.08	55.64
5x400	23.4	101.5	14949	0.0778	0.0969	26.10	62.19

Recommended Multi Core Identification

Recommended Multi Core Identification				
Phase A	Brown	Red	Red	Red
Phase B	Black	Yellow	Yellow	White (or neutral)
Phase C	Grey	Blue	Green	Blue
Natural core	Blue	Black	Blue	Black
Earth core	Yellow/Green	Yellow/Green	Black	Yellow/Green

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

Nominal cross-sectional area mm ²	Category								
	Class 1		Class 2			Class 5		Class 6	
	Copper		Copper		Aluminium or Aluminium alloy Ω/kM	Copper		Copper	
	Plain Ω/kM	Tinned Ω/kM	Plain Ω/kM	Tinned Ω/kM		Plain Ω/kM	Tinned Ω/kM	Plain Ω/kM	Tinned Ω/kM
1.5	12.1	12.2	12.1	12.2	--	13.3	13.7	13.3	13.7
2.5	7.41	7.56	7.41	7.56	--	7.98	8.21	7.98	8.21
4	4.61	4.70	4.61	4.70	--	4.95	5.09	4.95	5.09
6	3.08	3.11	3.08	3.11	--	3.30	3.39	3.30	3.39
10	--	--	1.83	1.84	3.08	1.91	1.95	1.91	1.95
16	--	--	1.15	1.16	1.91	1.21	1.24	1.21	1.24
25	--	--	0.727	0.734	1.20	0.780	0.795	0.780	0.795
35	--	--	0.524	0.529	0.868	0.554	0.565	0.554	0.565
50	--	--	0.387	0.391	0.641	0.386	0.393	0.386	0.393
70	--	--	0.268	0.270	0.443	0.272	0.277	0.272	0.277
95	--	--	0.193	0.195	0.320	0.206	0.210	0.206	0.210
120	--	--	0.153	0.154	0.253	0.161	0.164	0.161	0.164
150	--	--	0.124	0.126	0.206	0.129	0.132	0.129	0.132
185	--	--	0.0991	0.100	0.164	0.106	0.108	0.106	0.108
240	--	--	0.0754	0.0762	0.125	0.0801	0.0817	0.0801	0.0817
300	--	--	0.0601	0.0607	0.100	0.0641	0.0654	0.0641	0.0654
400	--	--	0.0470	0.0475	0.0778	0.0486	0.0495	--	--
500	--	--	0.0366	0.0369	0.0605	0.0384	0.0391	--	--
630	--	--	0.0283	0.0286	0.0469	0.0287	0.0292	--	--
800	--	--	0.0221	0.0224	0.0367	--	--	--	--

Rating Factors

VARIANCE:		AIR AND CONCRETE SLAB AMBIENT TEMPERATURES																		
INSTALLATION CONDITIONS:		CABLES IN AIR OR HEATED CONCRETE SLABS																		
Conductor temperature °C	Rating factor																			
	Air and concrete slab ambient temperature, °C																			
	15	20	25	35	40	45	50	55	60	65	70	75	80	85	90	100	110	120	130	140
150	1.11	1.09	1.07	1.02	1.00	0.98	0.95	0.93	0.90	0.88	0.85	0.83	0.80	0.77	0.74	0.69	0.60	0.52	0.43	0.30
110	1.16	1.13	1.10	1.04	1.00	0.96	0.93	0.89	0.85	0.80	0.76	0.71	0.65	0.60	0.53	0.38	—	—	—	—
90	1.26	1.20	1.15	1.05	1.00	0.94	0.88	0.81	0.73	0.65	0.57	0.47	0.34	0.19	—	—	—	—	—	—
80	1.31	1.25	1.19	1.06	1.00	0.92	0.84	0.76	0.66	0.56	0.45	0.27	—	—	—	—	—	—	—	—
70	1.35	1.28	1.21	1.07	1.00	0.91	0.82	0.72	0.60	0.49	0.37	—	—	—	—	—	—	—	—	—

VARIANCE:		SOIL AMBIENT TEMPERATURE					
INSTALLATION CONDITIONS:		CABLE BURIED DIRECT IN GROUND OR IN UNDERGROUND WIRING ENCLOSURES					
Conductor temperature °C	Rating factor						
	Soil ambient temperature, °C						
	10	15	20	25	30	35	40
90	1.11	1.07	1.03	1.00	0.97	0.93	0.89
80	1.13	1.09	1.04	1.00	0.96	0.91	0.85
70	1.14	1.10	1.05	1.00	0.95	0.89	0.83

CABLE TYPES:		SINGLE-CORE OR MULTICORE		
VARIANCE:		DEPTH OF LAYING		
INSTALLATION CONDITIONS:		BURIED DIRECT IN GROUND		
Depth of laying m	Rating factor			
	Conductor size, mm ²			
	Up to 50	Above 50 to 300	Above 300	
0.5	1.00	1.00	1.00	
0.6	0.99	0.98	0.97	
0.8	0.97	0.96	0.94	
1.0	0.95	0.94	0.92	
1.25	0.94	0.92	0.90	
1.5	0.93	0.91	0.89	
1.75	0.92	0.89	0.87	
2.0	0.91	0.88	0.86	
2.5	0.90	0.87	0.85	
3.0 or more	0.89	0.86	0.83	

CABLE TYPES:		SINGLE-CORE OR MULTICORE	
VARIANCE:		DEPTH OF LAYING	
INSTALLATION CONDITIONS:		IN UNDERGROUND WIRING ENCLOSURES	
Depth of laying m	Rating factor		
	Single-core	Multicore	
	0.5	1.00	1.00
0.6	0.98	0.99	
0.8	0.95	0.97	
1.0	0.93	0.96	
1.25	0.90	0.95	
1.5	0.89	0.94	
1.75	0.88	0.94	
2.0	0.87	0.93	
2.5	0.86	0.93	
3.0 or more	0.85	0.92	

VARIANCE:		THERMAL RESISTIVITY OF THE SOIL (FROM 1.2°C.m/W)			
INSTALLATION CONDITIONS:		BURIED DIRECT IN GROUND AND IN UNDERGROUND WIRING ENCLOSURES			
Thermal resistivity of soil °C.m/W	Rating factor				
	Multicore cable buried direct	Two or three single-core cables buried direct	Multicore cable in a wiring enclosure	Two single-core cables in a wiring enclosure*	Three single-core cables in a wiring enclosure*
0.8	1.09	1.16	1.03	1.06	1.08
0.9	1.07	1.11	1.02	1.04	1.06
1.0	1.04	1.07	1.02	1.03	1.04
1.2	1.00	1.00	1.00	1.00	1.00
1.5	0.92	0.90	0.95	0.94	0.92
2.0	0.81	0.80	0.88	0.86	0.83
2.5	0.74	0.72	0.83	0.80	0.77
3.0	0.69	0.66	0.78	0.75	0.71

* These rating factors apply to single-core cables enclosed separately, or grouped in a single wiring enclosure.

Current-carrying Capacities

CABLE TYPE:		SINGLE-CORE													
INSULATION TYPE:		PVC													
MAXIMUM CONDUCTOR TEMPERATURE:		70°C													
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND													
Conductor size mm ²	Current-carrying capacity, A														
	Unenclosed														
	Space			Space from surface			Touching			Exposed to sun					
	CU		AL		CU		AL		CU		AL		CU		AL
Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	
1.5	20	21	—	17	18	—	16	17	—	10	10	—			
2.5	29	27	—	25	24	—	23	22	—	13	13	—			
4	38	37	—	33	32	—	31	30	—	18	17	—			
6	49	47	—	42	41	—	40	38	—	22	21	—			
10	67	66	—	58	57	—	54	54	—	30	29	—			
16	89	88	69	77	75	59	72	71	56	39	38	30			
25	120	117	93	103	100	80	97	94	75	50	49	39			
35	148	145	115	127	125	98	119	117	92	61	59	47			
50	181	183	141	156	157	121	146	147	113	72	73	56			
70	230	231	179	197	198	153	184	185	143	89	89	69			
95	287	279	222	246	239	191	230	223	178	107	104	83			
120	335	331	260	287	284	223	267	264	208	122	120	95			
150	385	383	298	330	328	256	308	305	239	137	135	106			
185	447	438	347	383	376	299	357	350	278	154	149	120			
240	535	528	417	457	451	358	426	420	334	176	172	138			
300	620	609	483	529	519	415	492	484	387	197	191	155			
400	726	734	570	615	621	488	573	578	455	219	216	175			
500	846	855	669	710	717	571	661	668	532	242	237	196			
630	990	1011	789	817	833	668	760	775	622	265	262	219			

Notes: 1. Applies to non-armoured, sheathed or unsheathed cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		SINGLE-CORE														
INSULATION TYPE:		PVC														
MAXIMUM CONDUCTOR TEMPERATURE:		70°C														
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND														
Conductor size mm ²	Current-carrying capacity, A															
	Enclosed				Thermal insulation				Buried direct		Underground wiring enclosure					
	Wiring enclosure in air				Partially surrounded by thermal insulation		Completely surrounded by thermal insulation									
	CU		AL		CU		AL		CU		AL		CU		AL	
	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	
1.5	15	15	—	12	—	8	—	20	—	20	20	—	24	—		
2.5	21	20	—	17	—	12	—	27	—	27	26	—	33	—		
4	28	27	—	23	—	16	—	36	—	36	35	—	43	—		
6	35	34	—	28	—	20	—	45	—	45	43	—	53	—		
10	47	46	—	37	—	27	—	59	—	59	58	—	70	—		
16	62	61	48	50	39	36	28	104	81	78	76	60	90	70		
25	81	78	63	64	50	48	38	134	104	100	97	78	117	91		
35	100	98	78	80	62	59	46	160	124	122	119	94	140	108		
50	119	120	92	95	74	—	—	190	147	144	145	112	168	131		
70	152	152	118	122	94	—	—	233	181	180	180	140	205	159		
95	183	178	142	147	114	—	—	279	216	217	210	168	250	194		
120	217	213	169	173	135	—	—	317	247	252	247	196	283	220		
150	244	241	190	195	152	—	—	356	276	283	279	220	317	246		
185	284	277	222	227	177	—	—	402	313	325	316	253	365	284		
240	331	336	269	265	207	—	—	465	364	377	376	295	422	329		
300	388	379	305	311	244	—	—	524	412	434	423	341	488	380		
400	442	461	351	353	281	—	—	593	471	492	504	391	553	434		
500	523	520	421	418	337	—	—	668	537	571	566	459	641	507		
630	588	592	481	471	385	—	—	748	612	639	641	523	723	578		

Notes: 1. Applies to non-armoured, sheathed or unsheathed cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

Current-carrying Capacities

CABLE TYPE:		SINGLE-CORE											
INSULATION TYPE:		XLPE											
MAXIMUM CONDUCTOR TEMPERATURE:		90°C											
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND											
Conductor size mm ²	Current-carrying capacity, A												
	Unenclosed												
	Space			Space from surface			Touching			Exposed to sun			
	CU			CU			CU			CU			
Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL		
1.5	25	25	—	21	22	—	120	20	—	15	16	—	
2.5	35	33	—	30	29	—	28	27	—	21	21	—	
4	46	45	—	40	38	—	37	36	—	28	27	—	
6	59	57	—	50	49	—	47	46	—	36	34	—	
10	81	80	—	69	69	—	65	64	—	48	48	—	
16	108	106	84	92	91	71	86	85	67	64	63	50	
25	146	142	113	125	121	97	117	114	91	86	83	66	
35	180	177	140	154	151	119	144	141	111	105	103	81	
50	221	223	171	188	191	146	176	178	136	127	128	99	
70	282	283	219	240	241	186	224	225	174	160	161	124	
95	350	341	271	298	290	232	278	271	216	197	192	153	
120	410	406	318	349	346	271	325	322	253	229	226	178	
150	472	470	366	403	400	313	375	372	291	262	260	203	
185	560	540	427	468	459	365	435	427	339	302	296	235	
240	660	651	513	560	553	438	521	514	407	358	352	280	
300	766	752	596	648	637	508	602	591	472	410	402	322	
400	899	909	705	756	764	599	702	709	557	474	477	376	
500	1051	1062	829	874	884	703	812	821	652	544	546	437	
630	1230	1256	978	1010	1030	824	938	956	765	621	630	507	

Notes: 1. Applies to non-armoured, sheathed or unsheathed cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		SINGLE-CORE														
INSULATION TYPE:		XLPE														
MAXIMUM CONDUCTOR TEMPERATURE:		90°C														
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND														
Conductor size mm ²	Current-carrying capacity, A															
	Enclosed				Thermal insulation				Buried direct		Underground wiring enclosure					
	Wiring enclosure in air				Partially surrounded by thermal insulation		Completely surrounded by thermal insulation									
	CU				CU		CU		CU		CU		CU			
Stranded/Solid	Flexible	AL	CU	AL	CU	AL	CU	AL	Stranded/Solid	Flexible	AL	CU	AL			
1.5	18	19	—	15	—	10	—	22	—	22	23	—	27	—		
2.5	25	24	—	20	—	14	—	31	—	31	30	—	38	—		
4	33	31	—	26	—	19	—	40	—	40	38	—	49	—		
6	42	41	—	34	—	24	—	50	—	50	49	—	60	—		
10	56	55	—	45	—	32	—	67	—	67	66	—	79	—		
16	72	73	56	58	45	43	28	117	91	86	85	66	101	79		
25	97	94	75	77	60	58	38	151	117	113	109	87	132	103		
35	120	118	93	96	75	72	46	180	140	137	134	106	158	122		
50	143	144	111	114	89	—	—	214	166	163	163	126	190	147		
70	183	183	142	146	114	—	—	262	203	203	203	158	232	180		
95	220	214	171	176	137	—	—	313	243	244	237	190	276	214		
120	261	256	203	209	162	—	—	356	277	284	279	221	320	248		
150	295	291	229	236	183	—	—	400	310	320	316	249	358	277		
185	335	334	261	268	209	—	—	452	352	363	357	283	413	321		
240	399	391	312	320	250	—	—	523	409	426	416	333	477	371		
300	469	458	368	375	294	—	—	589	463	491	479	385	552	430		
400	534	533	424	427	339	—	—	668	530	557	554	442	626	491		
500	633	630	509	506	407	—	—	752	604	648	642	520	707	559		
630	714	719	583	571	466	—	—	843	688	727	729	593	820	654		

Notes: 1. Applies to non-armoured, sheathed or unsheathed cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

Current-carrying Capacities

CABLE TYPE:		TWO-CORE SHEATHED												
INSULATION TYPE:		PVC												
MAXIMUM CONDUCTOR TEMPERATURE:		70°C												
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND												
Conductor size mm ²	Current-carrying capacity, A													
	Unenclosed										Enclosed			
	Space			Touching			Exposed to sun				Exposed to sun			
	CU			CU			CU				CU			
Stranded/Solid Flexible AL			Stranded/Solid Flexible AL			Stranded/Solid Flexible AL				Stranded/Solid Flexible AL				
1.5	19	20	—	18	18	—	14	14	—	16	17	—		
2.5	27	26	—	26	25	—	20	19	—	23	23	—		
4	37	35	—	34	33	—	27	26	—	30	29	—		
6	46	45	—	44	42	—	34	32	—	39	38	—		
10	64	63	—	60	59	—	46	45	—	52	51	—		
16	85	83	66	80	78	62	60	59	47	68	68	52		
25	113	110	88	107	104	83	79	77	62	90	87	70		
35	139	137	108	131	128	101	97	94	75	112	109	87		
50	170	171	132	159	161	124	116	117	90	133	134	103		
70	215	215	167	201	202	156	145	145	112	170	169	132		
95	265	257	205	248	241	192	175	170	136	204	198	158		
120	307	304	239	288	285	224	202	199	157	241	236	187		
150	351	348	272	328	326	255	227	225	177	271	267	210		
185	403	395	314	377	370	294	258	252	201	313	305	244		
240	477	470	373	446	439	349	300	294	235	364	368	285		
300	547	537	429	511	502	401	339	331	266	424	415	333		
400	631	636	500	589	593	467	384	384	305	482	500	383		

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		TWO-CORE SHEATHED														
INSULATION TYPE:		PVC														
MAXIMUM CONDUCTOR TEMPERATURE:		70°C														
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND														
Conductor size mm ²	Current-carrying capacity, A															
	Thermal insulation												Buried direct		Underground wiring enclosure	
	Partially surrounded by thermal insulation, unenclosed			Partially surrounded by thermal insulation, in a wiring enclosure			Completely surrounded by thermal insulation, unenclosed			Completely surrounded by thermal insulation, in a wiring enclosure						
	CU			CU			CU			CU			CU		CU	
Stranded/Solid Flexible AL			Stranded/Solid Flexible AL			Stranded/Solid Flexible AL			Stranded/Solid Flexible AL			Stranded/Solid Flexible AL		Stranded/Solid Flexible AL		
1.5	14	—	13	—	9	—	8	—	21	—	21	22	—			
2.5	20	—	19	—	13	—	12	—	30	—	30	29	—			
4	27	—	24	—	17	—	15	—	39	—	39	38	—			
6	35	—	31	—	22	—	20	—	50	—	50	48	—			
10	48	—	42	—	30	—	26	—	66	—	66	65	—			
16	64	49	54	42	40	31	34	26	114	88	86	85	66			
25	85	66	72	56	53	41	45	35	147	114	112	108	87			
35	105	81	90	70	65	51	56	43	178	138	136	133	106			
50	127	99	107	83	—	—	—	—	211	163	162	163	126			
70	161	125	136	105	—	—	—	—	259	201	202	202	157			
95	198	154	163	127	—	—	—	—	311	241	243	236	189			
120	230	179	192	150	—	—	—	—	355	276	282	277	220			
150	263	204	217	168	—	—	—	—	398	309	317	313	246			
185	302	235	250	195	—	—	—	—	449	350	363	353	283			
240	357	279	291	228	—	—	—	—	520	406	421	419	329			
300	409	321	340	266	—	—	—	—	586	460	483	472	379			
400	471	373	386	306	—	—	—	—	663	526	548	560	434			

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

Current-carrying Capacities

CABLE TYPE:		THREE-CORE TO FIVE-CORE SHEATHED												
INSULATION TYPE:		PVC												
MAXIMUM CONDUCTOR TEMPERATURE:		70°C												
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND												
Conductor size mm ²	Current-carrying capacity, A													
	Unenclosed										Enclosed			
	Space			Touching			Exposed to sun				Exposed to sun			
	CU			CU			CU				CU			
Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL
1.5	16	17	—	15	16	—	12	12	—	14	14	—	—	—
2.5	23	22	—	22	21	—	17	16	—	20	19	—	—	—
4	31	30	—	29	28	—	23	22	—	25	24	—	—	—
6	40	38	—	37	36	—	29	28	—	33	32	—	—	—
10	54	54	—	51	51	—	39	38	—	44	43	—	—	—
16	72	71	56	68	67	53	51	50	40	58	57	45	—	—
25	97	94	75	91	89	71	67	65	52	76	73	59	—	—
35	120	117	93	112	110	87	82	80	64	94	92	73	—	—
50	146	148	113	137	138	106	99	100	77	112	112	87	—	—
70	185	185	143	172	173	134	123	123	96	142	142	111	—	—
95	228	222	177	213	207	165	150	145	116	177	172	137	—	—
120	265	262	206	247	244	192	172	169	134	202	199	157	—	—
150	303	301	235	282	280	219	194	192	151	228	229	177	—	—
185	348	342	272	324	318	253	220	215	172	263	257	206	—	—
240	412	407	323	383	378	301	256	251	200	316	309	248	—	—
300	472	464	372	438	430	345	288	282	227	—	—	—	—	—
400	544	549	434	504	508	402	326	326	260	—	—	—	—	—

- Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		THREE-CORE TO FIVE-CORE SHEATHED														
INSULATION TYPE:		PVC														
MAXIMUM CONDUCTOR TEMPERATURE:		70°C														
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND														
Conductor size mm ²	Current-carrying capacity, A															
	Thermal insulation												Buried direct		Underground wiring enclosure	
	Partially surrounded by thermal insulation, unenclosed			Partially surrounded by thermal insulation, in a wiring enclosure			Completely surrounded by thermal insulation, unenclosed			Completely surrounded by thermal insulation, in a wiring enclosure						
	CU			CU			CU			CU			CU		CU	
CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	Stranded/Solid	Flexible	AL	AL	
1.5	12	—	11	—	8	—	7	—	18	—	18	18	—	—	—	
2.5	17	—	16	—	11	—	10	—	25	—	25	24	—	—	—	
4	23	—	20	—	15	—	13	—	33	—	33	32	—	—	—	
6	30	—	26	—	19	—	16	—	42	—	42	40	—	—	—	
10	41	—	35	—	25	—	22	—	55	—	55	54	—	—	—	
16	54	42	47	36	34	26	29	23	96	75	73	71	56	—	—	
25	73	57	60	47	46	35	38	29	125	97	94	91	73	—	—	
35	90	69	75	58	56	43	47	36	150	117	114	112	89	—	—	
50	109	85	89	69	—	—	—	—	178	138	136	137	105	—	—	
70	138	107	114	88	—	—	—	—	219	170	170	169	132	—	—	
95	170	132	142	110	—	—	—	—	263	204	208	201	161	—	—	
120	198	154	162	126	—	—	—	—	300	233	237	232	184	—	—	
150	226	175	182	142	—	—	—	—	336	261	266	265	207	—	—	
185	259	203	211	165	—	—	—	—	379	296	304	296	237	—	—	
240	307	240	253	198	—	—	—	—	438	344	359	351	281	—	—	
300	—	—	—	—	—	—	—	—	493	388	404	394	318	—	—	
400	—	—	—	—	—	—	—	—	557	444	468	467	374	—	—	

- Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

Current-carrying Capacities

CABLE TYPE:		TWO-CORE SHEATHED													
INSULATION TYPE:		XLPE													
MAXIMUM CONDUCTOR TEMPERATURE:		90°C													
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND													
Conductor size mm ²	Current-carrying capacity, A														
	Unenclosed									Enclosed					
	Space			Touching			Exposed to sun			Exposed to sun					
	CU			CU			CU			CU					
	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL
1.5	24	24	—	22	23	—	19	20	—	20	20	—			
2.5	34	32	—	31	30	—	27	26	—	28	27	—			
4	45	43	—	42	40	—	36	35	—	37	35	—			
6	57	55	—	53	51	—	46	44	—	46	44	—			
10	78	78	—	73	72	—	63	62	—	63	62	—			
16	104	103	81	97	96	75	83	82	64	82	80	63			
25	140	136	109	131	128	102	111	108	86	110	106	85			
35	173	169	134	162	158	125	136	134	106	132	129	102			
50	211	213	163	197	199	153	165	167	128	162	163	126			
70	268	269	208	250	251	194	208	209	162	200	207	155			
95	331	322	257	309	300	239	255	248	198	250	242	194			
120	385	381	299	359	355	279	295	292	230	285	289	222			
150	441	438	342	411	408	319	336	333	261	332	328	257			
185	509	499	396	473	464	369	385	377	300	377	375	293			
240	604	596	472	562	554	439	454	446	354	448	439	350			
300	694	682	544	645	633	505	518	507	406	523	511	410			
400	804	811	636	745	751	590	594	597	470	596	595	472			

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		TWO-CORE SHEATHED											
INSULATION TYPE:		XLPE											
MAXIMUM CONDUCTOR TEMPERATURE:		90°C											
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND											
Conductor size mm ²	Current-carrying capacity, A												
	Thermal insulation								Buried direct		Underground wiring enclosure		
	Partially surrounded by thermal insulation, unenclosed		Partially surrounded by thermal insulation, in a wiring enclosure		Completely surrounded by thermal insulation, unenclosed		Completely surrounded by thermal insulation, in a wiring enclosure						
	CU		CU		CU		CU		CU		CU		
	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	Stranded/Solid	Flexible	AL
1.5	18	—	16	—	11	—	10	—	24	—	24	25	—
2.5	25	—	23	—	16	—	14	—	34	—	34	33	—
4	33	—	29	—	21	—	18	—	45	—	45	43	—
6	42	—	37	—	27	—	23	—	56	—	56	54	—
10	58	—	51	—	36	—	32	—	75	—	75	74	—
16	78	60	66	51	49	38	41	32	132	102	98	95	75
25	105	81	88	68	66	51	55	43	170	132	128	124	99
35	129	100	106	82	81	63	66	51	205	159	154	150	119
50	158	122	130	101	—	—	—	—	244	189	185	186	144
70	200	155	160	124	—	—	—	—	300	233	228	231	177
95	247	192	200	155	—	—	—	—	360	279	279	271	216
120	287	223	228	177	—	—	—	—	410	319	318	318	247
150	328	255	265	206	—	—	—	—	460	357	365	360	283
185	379	295	301	235	—	—	—	—	520	405	413	407	322
240	449	351	358	280	—	—	—	—	603	471	485	475	379
300	516	404	418	328	—	—	—	—	680	533	558	544	437
400	596	472	477	378	—	—	—	—	771	610	633	631	501

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

Current-carrying Capacities

CABLE TYPE:		THREE-CORE TO FIVE-CORE SHEATHED												
INSULATION TYPE:		XLPE												
MAXIMUM CONDUCTOR TEMPERATURE:		90°C												
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND												
Conductor size mm ²	Current-carrying capacity, A													
	Unenclosed									Enclosed				
	Space			Touching			Exposed to sun			Exposed to sun				
CU			CU			CU			CU					
Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL	Stranded/Solid	Flexible	AL
1.5	20	20	—	19	19	—	16	17	—	16	17	—	—	—
2.5	28	27	—	26	26	—	23	22	—	24	23	—	—	—
4	38	36	—	35	34	—	30	29	—	30	29	—	—	—
6	48	46	—	45	43	—	39	37	—	38	37	—	—	—
10	66	66	—	62	61	—	53	52	—	53	52	—	—	—
16	88	87	68	83	81	64	70	69	54	68	67	53	—	—
25	119	116	93	111	108	86	94	92	73	91	89	71	—	—
35	147	144	114	137	135	106	115	113	89	114	111	88	—	—
50	180	182	140	168	170	130	140	142	109	136	136	105	—	—
70	229	230	178	213	214	165	177	177	137	173	173	134	—	—
95	283	275	220	263	256	204	217	211	168	209	202	162	—	—
120	330	327	256	306	303	238	251	248	195	246	242	192	—	—
150	377	375	293	350	348	272	285	283	222	277	274	216	—	—
185	436	428	340	404	396	315	327	320	255	322	314	251	—	—
240	517	511	405	479	472	375	385	379	302	386	379	303	—	—
300	594	584	467	549	539	432	439	430	345	—	—	—	—	—
400	685	692	546	632	638	504	502	504	400	—	—	—	—	—

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

CABLE TYPE:		THREE-CORE TO FIVE-CORE SHEATHED											
INSULATION TYPE:		XLPE											
MAXIMUM CONDUCTOR TEMPERATURE:		90°C											
REFERENCE AMBIENT TEMPERATURE:		40°C IN AIR, 25°C IN GROUND											
Conductor size mm ²	Current-carrying capacity, A												
	Thermal insulation								Buried direct		Underground wiring enclosure		
	Partially surrounded by thermal insulation, unenclosed		Partially surrounded by thermal insulation, in a wiring enclosure		Completely surrounded by thermal insulation, unenclosed		Completely surrounded by thermal insulation, in a wiring enclosure						
	CU	AL	CU	AL	CU	AL	CU	AL	CU	AL	CU		
Stranded/Solid	Flexible	Stranded/Solid	Flexible	Stranded/Solid	Flexible	Stranded/Solid	Flexible	Stranded/Solid	Flexible	Stranded/Solid	Flexible	AL	
1.5	15	—	13	—	9	—	8	—	20	—	20	21	—
2.5	21	—	19	—	13	—	12	—	29	—	29	28	—
4	28	—	24	—	18	—	15	—	37	—	37	36	—
6	36	—	30	—	22	—	19	—	46	—	46	45	—
10	49	—	42	—	31	—	26	—	63	—	63	62	—
16	66	51	55	42	41	32	34	26	110	85	81	79	63
25	89	69	73	57	56	43	46	36	143	111	107	103	83
35	110	85	91	71	69	53	57	44	172	133	130	127	101
50	134	104	108	84	—	—	—	—	204	159	155	155	120
70	170	132	138	107	—	—	—	—	251	195	193	193	150
95	210	163	167	129	—	—	—	—	302	234	233	226	181
120	245	190	197	153	—	—	—	—	344	267	270	266	210
150	280	218	222	172	—	—	—	—	385	299	304	300	236
185	323	252	257	201	—	—	—	—	435	340	348	339	272
240	383	300	309	242	—	—	—	—	504	395	411	402	322
300	—	—	—	—	—	—	—	—	567	446	463	452	365
400	—	—	—	—	—	—	—	—	640	510	524	537	417

Notes: 1. Applies to cables with or without earth core, armoured or unarmoured, including neutral screened cables.
 2. Air and concrete slab ambient temperature: 40
 3. Soil ambient temperature: 25
 4. Depth of laying: 0.5m
 5. Thermal resistivity of the soil: 1.2°C.m/W

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