

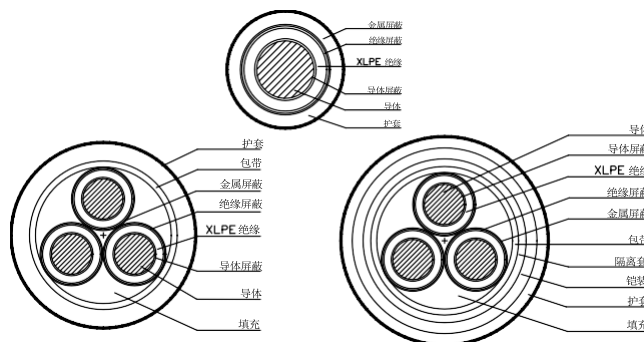
Medium Voltage Electric Cable Series

Contents

6kV~30kV XLPE Insulated Cable

6kV~30kV XLPE Insulated Cable

• DESIGN & CONSTRUCTION



• STANDARDS & APPROVALS

The Product was designed and produced under GB12706- “Rated voltage 1 kV to 35 kV extruded insulated power cables and accessories.”

QRUNNING Cable offers a wide range of low voltage power cables with diverse design options depending on the reference standards and customer requirements.

• APPLICATION

This product is suitable for the transmission and distribution of electrical energy in AC rated voltage systems ranging from 3.6/6 kV to 26/35 kV.

• OPERATIONAL PERFORMANCE

The rated voltage of the cable, represented as U_0/U , is from 3.6/6 kV to 18/30 kV.

The maximum allowable operating temperature of the cable conductor is 90°C.

During a short circuit (with a maximum duration of 5 seconds), the maximum temperature of the conductor shall not exceed 250°C.

The ambient temperature for cable installation should not be lower than 0°C.

Minimum bending radius: For three-core cables, no less than 15 times the outer diameter of the cable; for single-core cables, no less than 20 times the outer diameter.

• Selection of Rated Voltage

The rated voltage of the cable should be suitable for the operating conditions of the cable system, indicated as U_0/U (U_m) kV.

U0 – The rated AC voltage between the conductor and ground or between the metal shielding.

U – The rated AC voltage between conductors.

Um – The maximum value of the "highest system voltage" that the equipment can withstand.

The recommended U_0 values for cables used in three-phase systems are as follows:

System Voltage(U) kV	Maximum System Voltage(U _m) kV	Rated Voltage(U ₀)* kV	
		A and B Type Systems	C Type System
6	7.2	3.6	6.0
10	12	6.0	8.7
15	17.5	8.7	12.0
20	24	12.0	18.0
30	36	18.0	—
35	40.5	21.0	26.0

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Ningbo Qunxing Cable Co., Ltd. Manufacturer and **CUSTOM Systems del Norte, S.A. de C.V.** America distribution and infrastructure development Company
Calzada Del Valle 255 Interior 106 Col. Del Valle, CP 66220, San Pedro Garza García, Nuevo León Tel. (81)8262.8294

*Type A System – In this type of system, when any phase conductor contacts the ground or grounding conductor, it can be separated from the system within 1 minute.

Type B System – This type of system can operate with a single-phase ground fault for a limited time, but under no circumstances shall the maximum operating time exceed 8 hours, and the total duration of ground faults per year shall not exceed 125 hours.

Type C System – Systems that do not belong to either Type A or Type B.

• Model, Product Name and Installation

Model	Product Name	Installation
YJV	XLPE Insulated Power Cable Copper Conductor / PVC Sheath	Indoor, Underground Duct, Cable Tray etc, Cannot withstand mechanical stress. Single-core cables are not allowed to be installed in magnetic conduits.
YJLV	XLPE Insulated Power Cable Aluminium Conductor / PVC Sheath	
YJY	XLPE Insulated Power Cable Copper Conductor / PE Sheath	
YJLY	XLPE Insulated Power Cable Aluminium Conductor / PE Sheath	
YJV62	XLPE Insulated Power Cable Copper Conductor / PVC Sheath / Non-Magnetic Metal Tape Armored	Indoor, Underground Duct, Cable Tray etc, when buried underground, they can withstand some mechanical stress, but they cannot withstand large tensile forces.
YJLV62	XLPE Insulated Power Cable Aluminium Conductor / PVC Sheath / Non-Magnetic Metal Tape Armored	
YJV63	XLPE Insulated Power Cable Copper Conductor / Chloroethene Sheath / Non-Magnetic Metal Tape Armored	
YJLV63	XLPE Insulated Power Cable Aluminium Conductor / Chloroethene Sheath / Non-Magnetic Metal Tape Armored	
YJV22	XLPE Insulated Power Cable Copper Conductor / PVC Sheath / Metal Tape Armored	Indoor, Underground Duct, Cable Tray etc, when buried underground, they can withstand some mechanical stress, but they cannot withstand large tensile forces.
YJLV22	XLPE Insulated Power Cable Aluminium Conductor / PVC Sheath / Metal Tape Armored	
YJV23	XLPE Insulated Power Cable Copper Conductor / Chloroethene Sheath / Metal Tape Armored	
YJLV23	XLPE Insulated Power Cable Aluminium Conductor / Chloroethene Sheath / Metal Tape Armored	
YJV72	XLPE Insulated Power Cable Copper Conductor / PVC Sheath / Non-Magnetic Metal Tape Armored	Indoor, Underground Duct, Cable Tray, Shafts etc, when buried underground, they can withstand mechanical stress and some tensile forces.
YJLV72	XLPE Insulated Power Cable Aluminium Conductor / PVC Sheath / Non-Magnetic Metal Tape Armored	
YJV73	XLPE Insulated Power Cable Copper Conductor / PE Sheath / Non-Magnetic Steel Wire Armored	
YJLV73	XLPE Insulated Power Cable	

	Aluminium Conductor / PE Sheath / Non-Magnetic Steel Wire Armored	
YJV32	XLPE Insulated Power Cable Copper Conductor / PVC Sheath / Non-Magnetic Steel Wire Armored	Indoor, Underground Duct, Cable Tray, Shafts etc, when buried underground, they can withstand mechanical stress and some tensile forces.
YJLV32	XLPE Insulated Power Cable Aluminium Conductor / PVC Sheath / Non-Magnetic Steel Wire Armored	
YJV33	XLPE Insulated Power Cable Copper Conductor / PE Sheath / Non-Magnetic Steel Wire Armored	
YJLV33	XLPE Insulated Power Cable Aluminium Conductor / PE Sheath / Non-Magnetic Steel Wire Armored	

• Production Scope

Model	Core Counts	Rated Voltage kV				
		3.6/6	6/6 6/10	8.7/15	12/20	18/20 18/30
		Nominal Cross Section mm ²				
YJV YJLV YJY YJLY	1	25~1000	25~1000	25~1000	35~1000	50~1000
YJV62 YJLV62 YJY63 YJLY63	1	25~1000	25~1000	25~800	35~1000	50~1000
YJV22 YJLV22 YJY23 YJLY23	3	25~400	25~400	25~400	35~400	50~400
YJV72 YJLV72 YJY73 YJLY73	1	25~800	25~800	25~800	35~800	50~630
YJV32 YJLV32 YJY33 YJLY33	3	25~400	25~400	25~400	35~400	50~400

Note: The armor of single-core cables used for AC circuits employs a non-magnetic special structure and should be selected with caution.

• Single Core, Rated Voltage for 3.6/6kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Outer Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	2.5	1.6	21	860	550
70	10.0	2.5	1.7	23	1080	650
95	11.6	2.5	1.7	25	1350	760
120	13.0	2.5	1.8	26	1610	870
150	14.6	2.5	1.8	27	1920	990
185	16.2	2.5	1.9	29	2290	1140
240	18.4	2.6	2.0	32	2860	1370
300	20.6	2.8	2.1	35	3500	1640
400	23.8	3.0	2.2	40	4610	2140
500	26.6	3.2	2.3	44	5700	2610
630	30.4	3.2	2.4	47	6990	3090
800	34.0	3.2	2.5	51	8890	3940
1000	39.0	3.2	2.6	55	10559	4229

Other Parameters

Nominal Cross Section mm2	Conductor AC		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity							
	Resistance				A							
	Ω/km				Soil ...		Soil ∴		Air ...		Air ∴	
	Cu	Al			Cu	Al	Cu	Al	Cu	Al	Cu	Al
50	0.493	0.822	0.121	0.31	225	175	215	160	245	190	205	160
70	0.342	0.568	0.115	0.35	275	215	265	200	305	235	260	200
95	0.246	0.410	0.108	0.39	330	255	315	240	370	290	315	245
120	0.196	0.325	0.104	0.43	375	290	360	270	430	335	360	280
150	0.159	0.265	0.0988	0.47	425	330	405	305	490	380	410	320
185	0.128	0.211	0.0967	0.51	480	370	455	345	560	435	470	365
240	0.0983	0.161	0.0946	0.55	555	435	530	400	665	515	555	435
300	0.0794	0.130	0.0931	0.56	630	490	595	455	765	595	640	500
400	0.0632	0.102	0.0925	0.60	725	565	680	520	890	695	745	585
500	0.0510	0.0802	0.0915	0.62	825	650	765	595	1030	810	855	680
630	0.0415	0.0637	0.0881	0.69	940	745	860	680	1190	950	980	790
800	0.0349	0.0518	0.0853	0.77	1050	850	950	765	1370	1100	1100	910

• Three Cores, Rated Voltage for 3.6/6kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Outer Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	6.0	2.5	2.1	37	1750	1280
35	7.0	2.5	2.2	39	2130	1470
50	8.3	2.5	2.3	42	2670	1740
70	10.0	2.5	2.4	46	3390	2090
95	11.6	2.5	2.5	50	4250	2470
120	13.0	2.5	2.6	53	5090	2850
150	14.6	2.5	2.8	57	6120	3310
185	16.2	2.5	2.9	60	7270	3800
240	18.4	2.6	3.1	66	9090	4600
300	20.6	2.8	3.3	72	11120	5510
400	23.8	3.0	3.5	79	15190	7750

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.114	0.25	150	115	135	105
35	0.668	1.110	0.110	0.27	180	140	160	130
50	0.493	0.822	0.104	0.31	210	165	195	155
70	0.342	0.568	0.0985	0.35	260	200	245	190
95	0.247	0.411	0.0945	0.39	305	240	300	235
120	0.196	0.325	0.0907	0.43	350	275	345	270
150	0.159	0.265	0.0880	0.47	390	305	395	310
185	0.128	0.211	0.0857	0.51	445	350	455	355
240	0.0987	0.162	0.0836	0.55	515	405	540	420
300	0.0799	0.130	0.0825	0.56	580	455	615	485
400	0.0642	0.102	0.0812	0.60	660	525	720	575

• Three Cores, Rated Voltage for 3.6/6kV XLPE Insulated Power Cable YJV22,YJLV22

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Tape Thickness mm	Outer Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	1.4	2*0.5	2.2	42	2760	2300
35	1.4	2*0.5	2.3	44	3210	2550
50	1.5	2*0.5	2.4	47	3830	2890
70	1.6	2*0.5	2.5	51	4650	3340
95	1.6	2*0.5	2.7	55	5630	3850
120	1.7	2*0.5	2.8	58	6550	4310
150	1.8	2*0.5	2.9	62	7650	4840
185	1.8	2*0.5	3.0	66	8890	5430
240	1.9	2*0.5	3.2	71	10860	6370
300	2.0	2*0.5	3.4	78	13230	7610
400	2.0	2*0.8	3.7	90	17830	10440

Other Parameters

Nominal Cross Section mm ²	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.114	0.25	150	115	140	110
35	0.668	1.110	0.110	0.27	180	140	170	130
50	0.493	0.822	0.104	0.31	210	165	200	155
70	0.342	0.568	0.0985	0.35	260	200	255	195
95	0.247	0.411	0.0945	0.39	305	240	305	240
120	0.196	0.325	0.0907	0.43	350	270	350	275
150	0.159	0.265	0.0880	0.47	390	305	400	310
185	0.128	0.211	0.0857	0.51	445	345	445	355
240	0.0987	0.162	0.0836	0.55	510	400	535	420
300	0.0799	0.130	0.0825	0.56	570	450	610	480

400	0.0642	0.102	0.0812	0.60	655	515	705	560
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• Single Core, Rated Voltage for 6/6kV, 6/10kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Outer Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	3.4	1.7	23	860	570
70	10.0	3.4	1.7	25	1090	670
95	11.6	3.4	1.8	26	1380	800
120	13.0	3.4	1.8	28	1640	910
150	14.6	3.4	1.9	30	1920	1030
185	16.2	3.4	1.9	31	2280	1170
240	18.4	3.4	2.0	34	2870	1400
300	20.6	3.4	2.1	36	3470	1650
400	23.8	3.4	2.2	39	4320	1970
500	26.6	3.4	2.3	43	5410	2380
630	30.0	3.4	2.4	48	7030	3130
800	34.0	3.4	2.5	53	8710	3760

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance		Reactance Ω/km	Capacitance $\mu\text{F}/\text{km}$	Cable Current Carrying Capacity							
	Resistance Ω/km				A							
					Soil ...		Soil ∴		Air ...		Air ∴	
	Cu	Al			Cu	Al	Cu	Al	Cu	Al	Cu	Al
50	0.493	0.822	0.125	0.24	225	175	215	160	245	190	205	160
70	0.342	0.568	0.119	0.27	275	215	265	200	305	235	260	200
95	0.246	0.410	0.111	0.30	330	255	315	240	370	290	315	245
120	0.196	0.325	0.108	0.33	375	290	360	270	430	335	360	280
150	0.159	0.265	0.105	0.36	425	330	405	305	490	380	410	320
185	0.128	0.211	0.101	0.39	480	370	455	345	560	435	470	365
240	0.0982	0.161	0.0984	0.43	555	435	530	400	665	515	555	435
300	0.0792	0.130	0.0949	0.48	630	490	595	455	765	595	640	500
400	0.0631	0.102	0.0940	0.54	725	565	680	520	890	695	745	585
500	0.0509	0.0801	0.0915	0.59	825	650	765	595	1030	810	855	680
630	0.0414	0.0637	0.0894	0.65	940	745	860	680	1190	950	980	790
800	0.0346	0.0516	0.0877	0.73	1050	850	950	765	1370	1100	1100	910

• Three Cores, Rated Voltage for 6/6kV, 6/10kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Conductor Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	6.0	3.4	2.2	41	1910	1450
35	7.0	3.4	2.3	43	2300	1660
50	8.3	3.4	2.4	46	2780	1900
70	10.0	3.4	2.6	50	3530	2270
95	11.6	3.4	2.7	54	4460	2720
120	13.0	3.4	2.8	57	5320	3110
150	14.6	3.4	2.9	61	6200	3510
185	16.2	3.4	3.0	64	7380	4820
240	18.4	3.4	3.2	69	9240	5670
300	20.6	3.4	3.3	75	11170	6790
400	23.8	3.4	3.6	81	13900	8200

Other Parameters

Nominal Cross Section mm ²	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity			
					A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.124	0.20	150	115	140	110
35	0.668	1.110	0.118	0.22	180	140	170	130
50	0.493	0.822	0.112	0.24	210	165	200	155
70	0.342	0.568	0.106	0.27	260	200	255	195
95	0.247	0.411	0.101	0.30	305	240	305	240
120	0.196	0.325	0.0971	0.33	350	270	350	275
150	0.159	0.265	0.0939	0.36	390	305	400	310
185	0.128	0.211	0.0913	0.39	445	345	445	355
240	0.0985	0.162	0.0881	0.43	510	400	535	420
300	0.0797	0.130	0.0858	0.48	570	450	610	480
400	0.0640	0.102	0.0833	0.54	655	515	705	560

• Three Cores, Rated Voltage for 6/6kV, 6/10kV XLPE Insulated Power Cable YJV22,YJLV22

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Tape Thickness mm	Outer Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	1.4	2*0.5	2.3	46	2770	2300
35	1.4	2*0.5	2.4	48	3210	2570
50	1.5	2*0.5	2.5	51	3770	2890
70	1.6	2*0.5	2.7	56	4650	3390
95	1.7	2*0.5	2.8	59	5680	3932
120	1.8	2*0.5	2.9	62	6630	4420
150	1.8	2*0.5	3.0	67	7590	4892
185	1.9	2*0.5	3.1	70	8870	5510
240	2.0	2*0.5	3.3	76	10880	6460
300	2.0	2*0.5	3.5	81	12980	7490
400	2.0	2*0.8	3.7	92	16630	9520

Other Parameters

Nominal Cross Section mm ²	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.124	0.20	150	115	140	105
35	0.668	1.110	0.118	0.22	175	140	165	130
50	0.493	0.822	0.112	0.24	210	165	205	160
70	0.342	0.568	0.106	0.27	255	200	250	195
95	0.247	0.411	0.101	0.30	300	240	305	235
120	0.196	0.325	0.0971	0.33	345	270	350	270
150	0.159	0.265	0.0939	0.36	385	300	395	310
185	0.128	0.211	0.0913	0.39	440	345	450	350
240	0.0985	0.162	0.0881	0.43	510	390	530	410
300	0.0797	0.130	0.0858	0.48	565	445	600	470
400	0.0640	0.102	0.0833	0.54	645	510	700	550

• Three Cores, Rated Voltage for 6/6kV, 6/10kV XLPE Insulated Power Cable YJV32,YJLV32

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Wire Diameter mm	Outer Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	1.4	2.5	2.5	50	5100	4630
35	1.4	2.5	2.6	53	5640	4990
50	1.5	2.5	2.7	56	6430	5490
70	1.6	2.5	2.8	60	7410	6100
95	1.7	2.5	3.0	64	8610	6830
120	1.8	2.5	3.1	67	9630	7380
150	1.8	2.5	3.2	72	10950	8140
185	1.9	2.5	3.3	75	12340	8880
240	2.0	3.15	3.5	82	14690	10200
300	2.0	3.15	3.6	88	17300	11660
400	2.0	3.15	3.8	96	21320	13830

Other Parameters

Nominal Cross Section mm ²	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance μF/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.124	0.20	150	115	140	110
35	0.668	1.110	0.118	0.22	180	140	170	130
50	0.493	0.822	0.112	0.24	210	165	205	160
70	0.342	0.568	0.106	0.27	260	200	255	200
95	0.247	0.411	0.101	0.30	305	240	310	240
120	0.196	0.325	0.0971	0.33	350	270	355	275
150	0.159	0.265	0.0939	0.36	390	305	400	315
185	0.128	0.211	0.0913	0.39	445	345	460	360
240	0.0985	0.162	0.0881	0.43	510	400	535	420

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300	0.0797	0.130	0.0858	0.48	570	450	610	480
400	0.0640	0.102	0.0833	0.54	655	515	705	560

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• Single Core, Rated Voltage for 8.7/15kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	4.5	1.7	25	950	640
70	10.0	4.5	1.8	27	1200	750
95	11.6	4.5	1.8	29	1480	870
120	13.0	4.5	1.9	30	1760	990
150	14.6	4.5	1.9	32	2040	1100
185	16.2	4.5	2.0	34	2420	1260
240	18.4	4.5	2.1	36	3010	1490
300	20.6	4.5	2.1	38	3600	1720
400	23.8	4.5	2.2	41	4470	2050
500	26.6	4.5	2.3	45	5560	2450
630	30.0	4.5	2.4	50	6950	3080
800	34.0	4.5	2.5	54	8700	3810

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A							
					Soil ...		Soil ∴		Air ...		Air ∴	
	Cu	Al			Cu	Al	Cu	Al	Cu	Al	Cu	Al
50	0.493	0.822	0.130	0.20	225	175	215	160	245	190	205	160
70	0.342	0.568	0.123	0.22	275	215	265	200	305	235	260	200
95	0.246	0.410	0.116	0.24	330	255	315	240	370	290	315	245
120	0.196	0.324	0.113	0.26	375	290	360	270	430	335	360	280
150	0.159	0.264	0.110	0.29	425	330	405	305	490	380	410	320
185	0.128	0.211	0.107	0.31	480	370	455	345	560	435	470	365
240	0.0980	0.161	0.102	0.34	555	435	530	400	665	515	555	435
300	0.0790	0.129	0.0986	0.37	630	490	595	455	765	595	640	500
400	0.0630	0.102	0.0970	0.42	725	565	680	520	890	695	745	585
500	0.0508	0.0799	0.0961	0.46	825	650	765	595	1030	810	855	680
630	0.0414	0.0633	0.0932	0.51	940	745	860	680	1190	950	980	790
800	0.0342	0.0512	0.0901	0.57	1050	850	950	765	1370	1100	1100	910

• Three Cores, Rated Voltage for 8.7/15kV XLPE Insulated Power Cable YJV, YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	6.0	4.5	2.4	46	2250	1730
35	7.0	4.5	2.5	48	2650	1950
50	8.3	4.5	2.6	51	3150	2200
70	10.0	4.5	2.7	55	3960	2610
95	11.6	4.5	2.8	59	4890	3050
120	13.0	4.5	2.9	62	5770	3450
150	14.6	4.5	3.0	65	6680	3860
185	16.2	4.5	3.1	69	7880	4380
240	18.4	4.5	3.3	74	9780	5200
300	20.6	4.5	3.4	80	11720	6040
400	23.8	4.5	3.7	86	14530	7210

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.133	0.16	150	115	140	110
35	0.668	1.110	0.126	0.18	180	140	170	130
50	0.493	0.822	0.119	0.20	210	165	205	160
70	0.342	0.568	0.113	0.22	260	200	255	200
95	0.247	0.411	0.107	0.24	305	240	310	240
120	0.196	0.325	0.102	0.26	350	275	360	285
150	0.159	0.265	0.0922	0.29	390	305	405	315
185	0.128	0.211	0.0959	0.31	445	350	465	365
240	0.0984	0.162	0.0929	0.34	520	405	550	430
300	0.0795	0.130	0.0898	0.37	585	455	625	490
400	0.0638	0.102	0.0871	0.42	665	525	730	580

• Three Cores, Rated Voltage for 8.7/15kV XLPE Insulated Power Cable YJV22,YJLV22

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Tape Thickness mm	Outer Sheath Diameter mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	1.6	2*0.5	2.5	51	3270	2720
35	1.6	2*0.5	2.6	54	3730	3000
50	1.7	2*0.5	2.7	57	4310	3340
70	1.7	2*0.5	2.8	60	5190	3840
95	1.8	2*0.5	3.0	65	6270	4420
120	1.8	2*0.5	3.1	68	7250	4920
150	1.9	2*0.5	3.2	71	8240	5410
185	1.9	2*0.5	3.3	75	9550	6050
240	2.0	2*0.5	3.5	81	11610	7020
300	2.0	2*0.8	3.7	88	14480	8800
400	2.1	2*0.8	3.9	94	17510	10190

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity			
	Ω/km				A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.133	0.16	150	115	140	110
35	0.668	1.110	0.126	0.18	175	140	170	130
50	0.493	0.822	0.119	0.20	210	165	205	160
70	0.342	0.568	0.113	0.22	255	200	250	195
95	0.247	0.411	0.107	0.24	305	240	310	240
120	0.196	0.325	0.102	0.26	350	270	350	270
150	0.159	0.265	0.0992	0.29	390	300	400	310
185	0.128	0.211	0.0959	0.31	440	340	450	350
240	0.0984	0.162	0.0929	0.34	510	400	530	415
300	0.0795	0.130	0.0898	0.37	565	445	605	470
400	0.0638	0.102	0.0871	0.42	645	515	700	555

• Three Cores, Rated Voltage for 8.7/15kV XLPE Insulated Power Cable YJV32,YJLV32

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Wire Diameter mm	Outer Sheath Diameter mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
25	1.6	2.5	2.7	56	5840	5370
35	1.6	2.5	2.8	58	6400	5740
50	1.7	2.5	2.9	61	7210	6270
70	1.8	2.5	3.0	65	8210	6900
95	1.8	2.5	3.1	69	9350	7570
120	1.9	2.5	3.2	72	10460	8210
150	1.9	3.15	3.4	77	11830	9030
185	1.9	3.15	3.5	82	13480	10020
240	2.0	3.15	3.6	86	15780	11300
300	2.0	3.15	3.8	91	18140	12530
400	2.1	3.15	4.0	99	22580	15100

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
25	0.927	1.540	0.133	0.16	150	115	145	110
35	0.668	1.110	0.126	0.18	180	140	170	135
50	0.493	0.822	0.119	0.20	210	165	205	160
70	0.342	0.568	0.113	0.22	260	200	255	200
95	0.247	0.411	0.107	0.24	305	245	310	240
120	0.196	0.325	0.102	0.26	350	275	360	280
150	0.159	0.265	0.0992	0.29	390	300	405	315
185	0.128	0.211	0.0959	0.31	445	345	460	360
240	0.0984	0.162	0.0929	0.34	510	400	535	420
300	0.0795	0.130	0.0898	0.37	570	450	610	480
400	0.0638	0.102	0.0781	0.42	645	515	705	560

●Single Core, Rated Voltage for 12/20kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	5.5	1.8	27	1060	750
70	10.0	5.5	1.8	29	1300	850
95	11.6	5.5	1.9	30	1600	990
120	13.0	5.5	1.9	32	1860	1100
150	14.6	5.5	2.0	34	2190	1240
185	16.2	5.5	2.0	35	2560	1390
240	18.4	5.5	2.1	38	3180	1640
300	20.6	5.5	2.2	40	3830	1880
400	23.8	5.5	2.3	43	4640	2230
500	26.6	5.5	2.4	47	5730	2650
630	30.0	5.5	2.6	51	7040	3140
800	34.0	5.5	2.7	56	8630	3720

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A							
					Soil ...		Soil ∴		Air ...		Air ∴	
	Cu	Al			Cu	Al	Cu	Al	Cu	Al	Cu	Al
50	0.493	0.822	0.137	0.17	225	175	215	160	245	190	205	160
70	0.342	0.568	0.130	0.19	275	215	265	200	305	235	260	200
95	0.246	0.410	0.123	0.21	330	255	315	240	370	290	315	245
120	0.196	0.324	0.119	0.23	375	290	360	270	430	335	360	280
150	0.159	0.264	0.115	0.24	425	330	405	305	490	380	410	320
185	0.128	0.211	0.110	0.26	480	370	455	345	560	435	470	365
240	0.0978	0.161	0.107	0.29	555	435	530	400	665	515	555	435
300	0.0789	0.130	0.103	0.32	630	490	595	455	765	595	640	500
400	0.0627	0.102	0.0999	0.35	725	565	680	520	890	695	745	585
500	0.0504	0.0798	0.0982	0.39	825	650	765	595	1030	810	855	680
630	0.0407	0.0632	0.0956	0.43	940	745	860	680	1190	950	980	790
800	0.0340	0.0511	0.0923	0.47	1050	850	950	765	1370	1100	1100	910

• Three Cores, Rated Voltage for 12/20kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
35	7.0	5.5	2.6	52	3020	2310
50	8.3	5.5	2.7	55	2550	2590
70	10.0	5.5	2.8	59	4360	3010
95	11.6	5.5	2.9	63	5300	3460
120	13.0	5.5	3.0	67	6180	3880
150	14.6	5.5	3.1	69	7200	4350
185	16.2	5.5	3.2	73	8440	4900
240	18.4	5.5	3.4	78	10430	5750
300	20.6	5.5	3.5	83	12460	6600
400	23.8	5.5	3.8	90	15120	7870

Other Parameters

Nominal Cross Section mm ²	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
35	0.668	1.110	0.133	0.15	180	140	175	135
50	0.493	0.822	0.125	0.17	210	165	210	160
70	0.342	0.568	0.119	0.19	260	200	260	200
95	0.247	0.411	0.114	0.21	315	245	315	245
120	0.196	0.325	0.108	0.23	355	275	360	280
150	0.159	0.265	0.105	0.24	400	305	410	320
185	0.128	0.211	0.101	0.26	445	350	470	365
240	0.0982	0.162	0.0972	0.29	520	405	555	430
300	0.0790	0.130	0.0942	0.32	585	455	630	495
400	0.0635	0.102	0.0910	0.35	665	525	735	580

• Three Cores, Rated Voltage for 12/20kV XLPE Insulated Power Cable YJV22,YJLV22

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Tape Thickness mm	Outer Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
35	1.6	2*0.5	2.8	57	4270	3560
50	1.7	2*0.5	2.9	61	4930	3980
70	1.8	2*0.5	3.0	64	5830	4480
95	1.8	2*0.5	3.1	68	6900	5050
120	1.9	2*0.5	3.2	71	7850	5550
150	1.9	2*0.5	3.3	75	9000	6140
185	2.0	2*0.5	3.4	79	10370	6830
240	2.0	2*0.8	3.6	86	13320	8640
300	2.1	2*0.8	3.8	91	15610	9750
400	2.2	2*0.8	4.0	98	18510	11280

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
35	0.668	1.110	0.133	0.15	175	140	170	135
50	0.493	0.822	0.125	0.17	205	165	205	160
70	0.342	0.568	0.119	0.19	255	195	255	200
95	0.247	0.411	0.114	0.21	305	240	310	240
120	0.196	0.325	0.108	0.23	345	270	350	275
150	0.159	0.265	0.105	0.24	385	300	400	310
185	0.128	0.211	0.101	0.26	440	345	455	355
240	0.0982	0.162	0.0972	0.29	510	400	535	415
300	0.0790	0.130	0.0942	0.32	570	445	605	475
400	0.0635	0.102	0.0910	0.35	645	515	705	560

●Single Core, Rated Voltage for 18/30kV XLPE Insulated Power Cable YJV, YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	8.0	2.0	33	1400	1110
70	10.0	8.0	2.1	34	1660	1240
95	11.6	8.0	2.1	36	1980	1400
120	13.0	8.0	2.2	38	2260	1530
150	14.6	8.0	2.3	39	2600	1690
185	16.2	8.0	2.3	41	2990	1870
240	18.4	8.0	2.3	43	3640	2140
300	20.6	8.0	2.4	46	4310	2420
400	23.8	8.0	2.5	49	5160	2820
500	26.6	8.0	2.6	52	6290	3280
630	30.0	8.0	2.7	56	8020	4020
800	34.0	8.0	2.8	60	9710	4730

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity							
	Resistance Ω/km				A							
					Soil ...		Soil ∴		Air ...		Air ∴	
	Cu	Al			Cu	Al	Cu	Al	Cu	Al		
50	0.493	0.822	0.151	0.13	225	175	215	165	245	190	220	170
70	0.342	0.568	0.143	0.15	275	215	265	200	305	235	270	210
95	0.246	0.410	0.137	0.16	330	255	315	240	370	285	330	255
120	0.196	0.324	0.131	0.17	375	290	360	270	425	330	375	290
150	0.159	0.264	0.127	0.19	420	325	400	305	485	375	425	330
185	0.128	0.211	0.123	0.20	475	370	455	345	555	430	485	380
240	0.0977	0.161	0.118	0.22	555	430	525	400	660	505	560	435
300	0.0786	0.129	0.113	0.24	630	490	595	455	745	580	650	510
400	0.0624	0.102	0.109	0.26	720	565	680	525	870	680	760	595
500	0.0501	0.0796	0.105	0.29	835	645	775	600	1000	790	875	690
630	0.0403	0.0629	0.102	0.31	940	740	875	685	1160	920	1000	800
800	0.0335	0.0507	0.0986	0.35	1060	845	970	770	1330	1060	1130	920

• Three Cores, Rated Voltage for 18/30kV XLPE Insulated Power Cable YJV,YJLV

Nominal Cross Section mm ²	Cable Diameter mm	Insulation Thickness mm	Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	8.3	8.0	3.0	68	4760	3880
70	10.0	8.0	3.1	71	5680	44200
95	11.6	8.0	3.2	75	6700	4950
120	13.0	8.0	3.3	78	7640	5450
150	14.6	8.0	3.4	82	87400	6000
185	16.2	8.0	3.5	86	10050	6650
240	18.4	8.0	3.7	91	12150	7620
300	20.6	8.0	3.9	196	14280	8590
400	23.8	8.0	4.2	102	170900	10040

Other Parameters

Nominal Cross Section mm2	Conductor AC		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity			
	Resistance				A			
	Ω/km				Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
50	0.493	0.822	0.140	0.13	210	165	215	165
70	0.342	0.568	0.132	0.15	265	205	270	205
95	0.247	0.411	0.126	0.16	310	245	320	250
120	0.196	0.325	0.121	0.17	360	275	370	285
150	0.159	0.265	0.116	0.19	400	305	420	330
185	0.128	0.211	0.111	0.20	445	350	480	375
240	0.0979	0.161	0.107	0.22	525	410	565	435
300	0.0787	0.129	0.104	0.24	585	455	640	505
400	0.0627	0.101	0.0960	0.26	670	525	745	590

• Three Cores, Rated Voltage for 18/30kV XLPE Insulated Power Cable YJV22,YJLV22

Nominal Cross Section mm ²	Inner Sheath Thickness mm	Steel Tape Thickness mm	Outer Sheath Thickness mm	Approx. Cable Diameter mm	Approx. Cable Weight kg/km	
					Cu	Al
50	1.8	2*0.5	3.2	73	6540	5650
70	1.9	2*0.5	3.4	77	75600	6290
95	1.9	2*0.5	3.5	81	8710	6960
120	2.0	2*0.8	3.6	86	10570	8380
150	2.1	2*0.8	3.7	89	11800	9070
185	2.1	2*0.8	3.8	93	13340	9890
240	2.2	2*0.8	4.0	99	15630	11100
300	2.3	2*0.8	4.2	104	18040	12350
400	2.4	2*0.8	4.4	110	21100	14060

Other Parameters

Nominal Cross Section mm2	Conductor AC Resistance Ω/km		Reactance Ω/km	Capacitance Ω/km	Cable Current Carrying Capacity A			
					Soil		Air	
	Cu	Al			Cu	Al	Cu	Al
50	0.493	0.822	0.140	0.13	205	165	210	165
70	0.342	0.568	0.132	0.15	255	200	265	205
95	0.247	0.411	0.126	0.16	305	240	315	245
120	0.196	0.325	0.121	0.17	345	270	360	280
150	0.159	0.265	0.116	0.19	385	305	410	320
185	0.128	0.211	0.111	0.20	440	350	465	365
240	0.0979	0.161	0.107	0.22	510	400	545	425
300	0.0787	0.129	0.104	0.24	570	450	615	485
400	0.0627	0.101	0.0960	0.26	645	515	715	570