



# LOW VOLTAGE POWER CABLE



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## YIFANG ELECTRIC GROUP INC



## BRIEF INTRODUCTION

Zhengzhou Yifang Cable Co., Ltd. is mainly specialized in Wires & Cables, including designment, production and sales, Locating in western district of Zhengzhou, Henan Province, P. R. China. The total area of factory is more than 140 thousands square meters, and it is one of the many great manufacturers in China.

Its products are mainly covering Low, Medium, High Voltage (1KV to 220KV) XLPE Insulated Power Cable, PVC insulated Power Cable, Aerial-Bundle Cable (ABC cable), PVC Insulated Wires (Building Cable), Control Cable, Rubber Cable, Bare Conductor (ACSR, AAC, AAAC, BCC), Welding Cable, Galvanized Steel Wire (Stay wire), etc.

The products are complying with GB, IEC, BS, ASTM, etc. Besides, we have the capacity to design and produce all kinds of wires and cables according to your special requirements (supplying OEM Service).

In the past years, our products have been sold to many countries and regions, such as Algeria, Australia, Bahrain, Bolivia, Bangladesh, Brazil, Burma, Chile, Costa Rica, Cyprus, Egypt, Hongkong, Indonesia, Iran, Jamaica, Jordan, Kenya, Macao, Malaysia, Mexico, Nepal, Nigeria, Korea-North, Oman, Pakistan, Philippines, Russia, Singapore, Sri Lanka, Sudan, Tanzania, Thailand, Togo, Yemen, Vietnam, Zambia.

## PVC Insulated Power Cable and Fire Resistant Cable

The PVC insulated power cable and fire resistant cable are suitable for fixed laying in power transmission and distribution lines with A.C.50Hz and voltage rating of up to or including 6KV.

### I . Performance Characteristics:

1. The long-term permissible operation temperature of conductor shall not be higher than 70°C.
2. Conductor maximum short circuit (not more than 5 seconds) temperature shall not be higher than 160°C.
3. The cable is not limited by drop in level when being laid, and the environment temperature shall not be 0°C.
4. Perfect chemical stability, resistant against acids, alkalis, grease and organic solvents, and flame retardance.
5. Light weight, perfect bending properties, installed and maintained easily and conveniently.

Voltage rating:0.6/1KV、 3.6/6KV.

Conductors: copper or aluminum.

Number of cable cross: one core (Single core), two cores (Double cores), three cores, four cores (Four Equal-section-area cores or three equal-section-area and one smaller section area neutral core), five cores (Five equal-section-area cores or three equal-section-area cores and two small area neutral cores). We provide armored type and non-armored type for the cables stated above.



Outer sheath: PVC or PE.

Our company has been carrying out Chinese national standard GB12706 and GB12666.6 (equivalent to IEC60502 and IEC60331) for PVC insulated power cable and fire resistant cable needed by domestic customer, and for foreigner customers we can manufacture in accordance with BS, DIN and other countries standards. In addition, we can design and manufacture PVC insulated power cable with special characteristics according to needs of customers.



## II. Technical Requirements

### 1. Description

Cu core	Al core	Description of Cable
VV NH-VV	VLV NH-VLV	Cu(Al) core PVC—insulated PVC—sheathed power cable Cu(Al) core PVC—insulated PVC—sheathed fire resistant cable
VY NH-VY	VLY NH-VLY	Cu(Al) core PVC—insulated PE—sheathed power cable Cu(Al) core PVC—insulated PE—sheathed fire resistant power cable
VV22 NH-VV22	VLV22 NH-VLV22	Cu(Al) core PVC-insulated steel-tape-armored PVC-sheathed power cable Cu(Al) core PVC-insulated steel-tape-armored PVC-sheathed fire resistant cable
VV23 NH-VV23	VLV23 NH-VLV23	Cu(Al) core PVC-insulated steel-tape-armored PE-sheathed power cable Cu(Al) core PVC-insulated steel-tape-armored PE-sheathed fire resistant cable
VV32 NH-VV32	VLV32 NH-VLV32	Cu(Al) core PVC-insulated fine-steel-wire-armored PVC-sheathed power cable Cu(Al) core PVC-insulated fine-steel-wire-armored PVC-sheathed fire resistant cable
VV33 NH-VV33	VLV33 NH-VLV33	Cu(Al) core PVC-insulated fine-steel-wire-armored PE-sheathed power cable Cu(Al) core PVC-insulated fine-steel-wire-armored PE-sheathed fire resistant cable
VV42 NH-VV42	VLV42 NH-VLV42	Cu(Al) core PVC-insulated thick-steel-wire-armored PVC-sheathed power cable Cu(Al) core PVC-insulated thick-steel-wire-armored PVC-sheathed fire resistant cable
VV43 NH-VV43	VLV43 NH-VLV43	Cu(Al) core PVC-insulated thick-steel-wire-armored PE-sheathed power cable Cu(Al) core PVC-insulated thick-steel-wire-armored PE-sheathed fire resistant cable

## XLPE Insulated Power Cable

### I. Brief of XLPE Insulated Power Cable

XLPE insulated power cable has a number of advantages over paper insulated and PVC insulated cable. XLPE cable has high electric strength, mechanical strength, high-ageing resistance, environmental stress resisting anti-chemical corrosion, and it is simple construction, using convenient and higher operating of long term temperature. It can be laid with no drop restriction.

Various of flame-retardant and non-flame retardant XLPE cable can be manufactured with three technology (peroxide, silene, and irradiation, cross linking). The flame-retardant cable covers all kinds of low-smoke, low-halogen, low-smoke halogen free and non-smoke no halogenated and three classes of A, B, C.

Our XLPE cable can be manufactured according to company's specification which is equivalent to IEC60502, IEC60332, IEC60754. Some of indexes are superior to above international standard IEC.

Some of special XLPE cable can be manufactured according to the other standards required by customs.

XLPE cable having higher long-term working temperature and greater current rating, at the same environment XLPE cable may be reduced size (nominal cross section) 1 or 2 class in comparison with paper and PVC cable. These are not only improving the quality and properties of products, but also reduce cable's production costs.

### II. Scope of XLPE Cable

Type	Number of core	Nominal Cross Section of Conductor mm <sup>2</sup>
YJV YJLV YJY YJLV	1	1.5-1000
YJV22 YJLV22 YJV23 YJLV23		
YJV32 YJLV32 YJV33 YJLV33		
YJV42 YJLV42 YJV43 YJLV43	2	1.5-400**
ZR-YJV* ZR-YJLV	3	
ZR-YJY ZR-YJLY	4	
ZR-YJV22 ZR-YJLV22	5	
ZR-YJV23 ZR-YJLV23		
ZR-YJV32 ZR-YJLV32	3+1	2.5-400**
ZR-YJV33 ZR-YJLV33		
ZR-YJV42 ZR-YJLV42		
ZR-YJV43 ZR-YJLV43	3+2	



\* "ZR-" covers three classes A, B, C of flame-retardant cable. It can be expressed as "ZRA-", or "ZRB-" or "ZRC-" separately. For example: "ZRB-YJV" or "ZRA-YJV22".

\*\* Only technical data of common cable are listed in Table of Cable's construction, weight and electrical properties.

Attached Table: Cross section area of neutral conductor in 3+1cores, 4+1cores and 3+2 cores should conform to specification of following table:

Nominal Cross Section mm <sup>2</sup>	Main cores	2.5	4	6	10	16	25	35	50
	Neutral cores	1.5	2.5	4	6	10	16	16	25
Nominal Cross Section mm <sup>3</sup>	Main cores	70	95	120	150	185	240	300	400
	Neutral cores	35	50	70	70	95	120	150	185

### III. Name and Type of XLPE Cable

Type		Name
Cu core	Al core	
YJV (YJY)	YJLV (YJLY)	XLPE insulated, PVC(PE) sheathed power cable
YJV22 (YJV23)	YJLV22 (YJLV23)	XLPE insulated, steel tape armoured, PVC (PE) sheathed power cable
YJV32 (YJV33)	YJLV32 (YJLV33)	XLPE insulated, fine steel wire armoured, PVC (PE) sheathed power cable
YJV42 (YJV43)	YJLV42 (YJLV43)	XLPE insulated, thick steel wire armoured, PVC (PE) sheathed power cable
ZR-YJV (ZR-YJY)	ZR-YJLV (ZR-YJLY)	XLPE insulated, PVC (PE) sheathed flame-retardant power cable
ZR-YJV22 (ZR-YJV23)	ZR-YJLV22 (ZR-YJLV23)	XLPE insulated, steel tape armoured, PVC (PE) sheathed flame-retardant power cable
ZR-YJV32 (ZR-YJV33)	ZR-YJLV32 (ZR-YJLV33)	XLPE insulated, fine steel wire armoured, PVC (PE) sheathed flame-retardant power cable
ZR-YJV42 (ZR-YJV43)	ZR-YJLV42 (ZR-YJLV43)	XLPE insulated, thick steel wire armoured, PVC (PE) sheathed flame-retardant power cable

### IV. Main technical Characteristics of Cable

A. D.C. Resistance : Conductor resistance of finished cable per kilometer at 20°C is not more than the following

Nominal Cross Section mm <sup>2</sup>	1.5	2.5	4	6	10	16	25
Cu core Ohm/km	12.1	7.41	4.61	3.08	1.83	1.15	0.727
Al core Ohm/km	18.1	12.1	7.41	4.61	3.08	1.91	1.2
Nominal Cross Section mm <sup>2</sup>	35	50	70	95	120	150	185
Cu core Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991
Al core Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164
Nominal Cross Section mm <sup>2</sup>	240	300	400	500	630	800	1000
Cu core Ohm/km	0.0754	0.06	0.047	0.0366	0.0283	0.0221	0.0176
Al core Ohm/km	0.125	0.10	0.0778	0.0605	0.0469	0.0367	0.0291

B. Voltage Test Each drum of finished cable should withstand power frequency voltage 3.5KV for 5 minutes, the insulation is not breakdown.

C. Test on bunched Cable Under fire conditions

#### 1. Category of Sample

The number of cable lengths required to give a total volume of combustible material per meter of :

Category a: 7 Liters

Category b: 3.5 Liters

Category c: 1.5 Liters



#### 2. Duration of application of the flame

In the case of cables samples in Category A and B the test flame should be applied for 40 min.

Cable samples in Category C should have the test flame applied for 20 min.

#### 3. Evaluation

After burning has ceased, the charred portion of cable should not have reached a height exceeding 2.5m.

### V. Service conditions and Parameters of Cable

The cable is applied to fixed installation for rated voltage 0.6/1KV of power transportation and distribution line.

Max. Rated Temperature of conductor: Nominal Operating 90°C.

Short circuit: (Max. for 5 sec.) 250°C

Temperature of laying, in air 25°C

Underground 15°C

For laying, single core, triangle laying for three cables.

Depth of laying in direct: 100cm

Coefficient of thermal resistivity of soil 100°C.cm/w

The cable can be laid without drop restriction, and the environment temperature shall not be lower than 0°C.

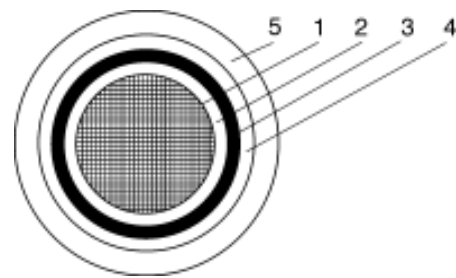
Single core, steel tape armoured cable should be only applied to direct-circuit line.

For nominal insulation thickness, size of armour, over-diameter, weight and current rating of retardant flame cable of class A,B,C, you should refer to the value of general cable.

## VI. Construction, Weight and Current-rating of Cable:

The diagram of structure:

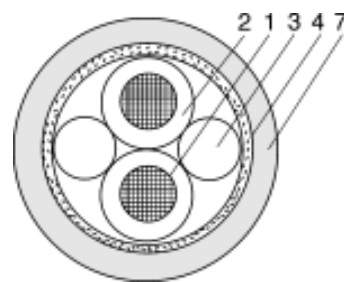
### The Diagrams of single-Core Cables



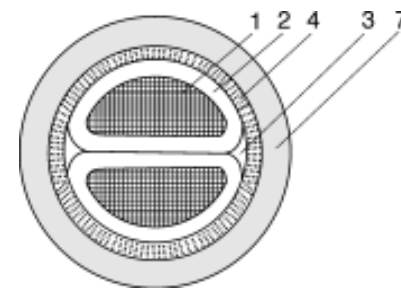
Solid-core or twisted conductor inner-steel-tape (or wire)-armoured XLPE cables (Type YJV22, YJLV22, YJV23, YJLV23, YJV32, YJLV32, YJV33 and YJLV33)

1. Copper (or aluminium) conducting core
2. XLPE insulation
3. Non-woven cloth wrapped inner bedding material layer
4. Double steel tape (steel wire) armoured layer
5. PVC or PE outer sheath

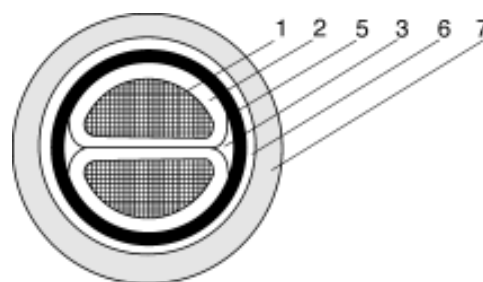
### The Diagrams of Double-Core Cables



Solid-core round conductor non-armoured XLPE cables (Type YJV, YJLV, YJY and YJLY)



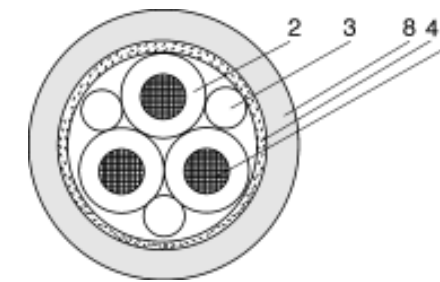
Solid-core or twisted tightly-pressed semi-cylindrical conductor nonarmoured XLPE cables (Type YJV, YJLV, YJY and YJLY)



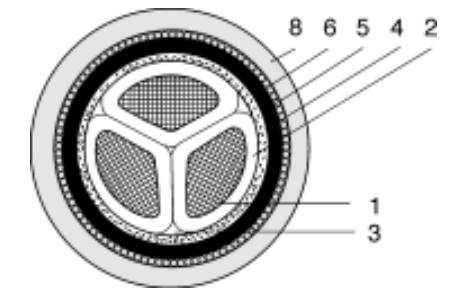
Solid-core or twisted tightly-pressed semi-cylindrical conductor inner-steel-tape (or wire)-armoured XLPE cables (Type YJV22, YJLV22, YJLV23, YJV32, YJLV32, YJV33 and YJLV33)

1. copper (or aluminium) conductive core
2. XLPE insulation
3. PP filler
4. Cable core wrapping tape
5. Non-woven cloth wrapped inner bedding material layer
6. Double steel tape (steel wire) armoured layer
7. PVC or PE outer sheath

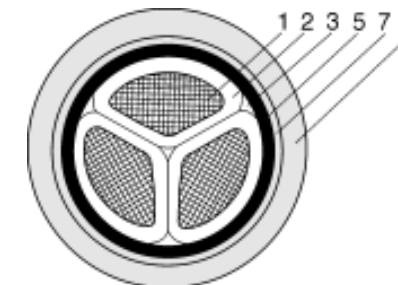
### The Diagrams of Three-Core Cables



Solid-core round conductor non-armoured XLPE cables (Type YJV, YJLY, YJY and YJLY)



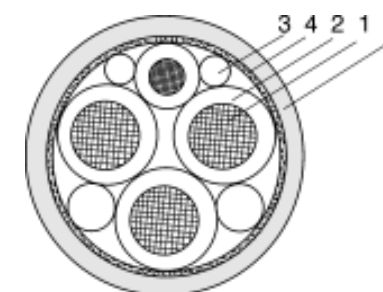
Solid-core or tightly-pressed twisted sector conductor fine (thick)-steel-wire-inner-armoured XLPE cables (Type YJV32, YJLV32, YJV33, YJLV33, YJV42, YJLV42, YJV43, YJLV43)



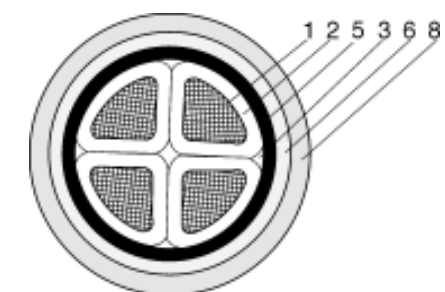
Solid-core or tightly-pressed twisted sector Conductor inner-steel-tape-armoured XLPE cables (Type YJV22, YJLV22, YJV23, YJLV23)

1. copper (or aluminium) conductive core
2. XLPE insulation
3. PP filler
4. Cable core wrapping tape
5. Non-woven cloth wrapped inner bedding material layer
6. Single layer of inner-armoured fine (thick) steel wire
7. Double steel tape armoured layer
8. PVC or PE other sheath

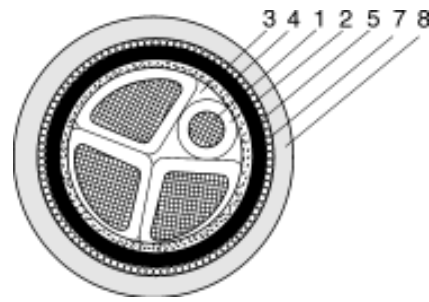
### The Diagrams of Four-Core Cables



Solid-core round conductor non-armoured XLPE cables (Type YJV, YJLV, YJY and YJLY)



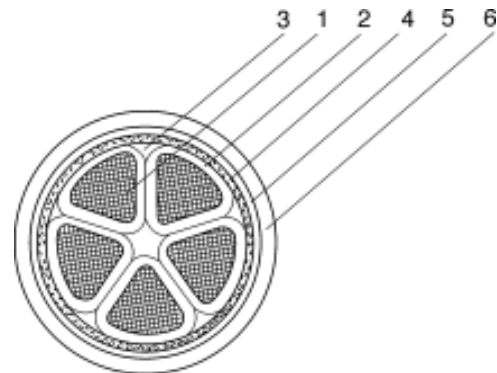
Solid-core or tightly-pressed sector (equal section) inner-steel-tape (or wire) -armoured XLPE cables (Type YJV22, YJV23, YJLV23, YJLV22, YJV32, YJLV33, YJV33, YJLV33)



Solid-core or tightly-pressed sector (3+1) inner-tine (thick)-steelwire-wire-armoured XLPE cables (Type YJV32,YJLV32,YJV33,YJLV33,YJV42,YJLV42,YJV43,YJLV43)

1. copper (or aluminium) conductive core
2. XLPE insulation
3. PP filler
4. Cable core wrapping tape
5. Non-woven eloth wrapped inner bedding material layer
6. double steel tape armoured layer
7. Single layer of inner-armoured fine (thick) steel wire
8. PVC or PE other sheath

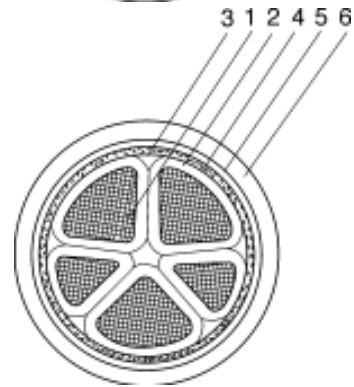
The Diagrams of Five-Core Cables



Solid-core or tightly-pressed sector (equal section) inner-steel-tape (or wire) -armoured XLPE cables

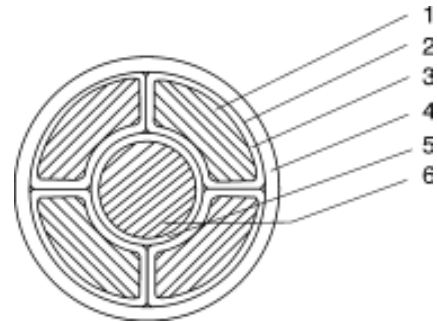
Solid-core or tightly-pressed sector (3+2) in-ner-steel-tape (or wire)-armoured XLPE cables

1. copper (or aluminium) conductive core
2. XLPE insulation
3. PP filler
4. Wrapped inner bedding material layer
5. Steel tape (steel wire) armoured layer
6. PVC or PE other sheath



five core cable with tile type conductor

1. outer sheath
2. Wrapping layer
3. Tile type conductor
4. Insulation for tile type conductor
5. Insulation for protection conductor
6. Conductor for protection



Single core, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Overall Dia. mm	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight										Recommending Current Rating A						
			Steel Tape Layer X Thickness	Thick Steel Wire Dia. mm	YJV	YJY	YJV22	YJV23	YJV32	YJV33	YJV42	YJV43	Overall Dia. mm	Weight kg/km	In Ground	In Air					
1.5	1.38	0.7	2 × 0.3	1.6	4.0	5.7	44	5.7	36	14.9	334	302	14.9	16.9	594	16.9	558	21.7	1318	45	32
2.5	1.78	0.7	2 × 0.3	1.6	4.0	6.1	56	6.1	48	14.9	341	309	14.9	16.9	601	16.9	565	21.7	1325	59	42
4	2.25	0.7	2 × 0.3	1.6	4.0	6.5	73	6.5	64	14.9	354	322	14.9	16.9	614	16.9	577	21.7	1337	77	56
6	2.76	0.7	2 × 0.3	1.6	4.0	7.0	95	7.0	85	14.9	365	333	14.9	16.9	625	16.9	588	21.7	1348	97	70
10	3.57	0.7	2 × 0.3	1.6	4.0	7.9	138	7.9	126	14.9	395	363	14.9	16.9	655	16.9	619	21.7	1379	130	97
16	4.50	0.7	2 × 0.3	1.6	4.0	8.8	198	8.8	184	15.0	444	411	15.0	17.0	702	17.0	665	22.6	1552	170	125
25	6.30	0.9	2 × 0.3	1.6	4.0	11.0	309	11.0	290	15.4	523	490	15.4	17.4	778	17.4	740	24.8	1788	220	165
35	7.30	0.9	2 × 0.3	1.6	4.0	12.0	409	12.0	389	16.4	641	605	16.4	18.4	919	18.4	878	25.8	2002	265	200
50	8.30	1.0	2 × 0.3	1.6	4.0	13.2	560	13.2	538	17.6	813	775	17.6	19.6	1111	19.6	1067	27.0	2269	320	245
70	10.00	1.1	2 × 0.3	1.6	4.0	15.1	764	15.1	738	19.5	1050	1007	19.5	21.5	1394	21.5	1346	29.1	2604	295	305
95	11.60	1.1	2 × 0.3	1.6	4.0	16.9	1016	16.9	985	21.1	1323	1276	21.1	23.1	1699	23.1	1646	30.7	2968	475	375
120	13.00	1.2	2 × 0.3	1.6	4.0	18.5	1265	18.5	1230	22.7	1598	1547	22.7	24.7	1991	24.7	1935	32.5	3449	545	435
150	14.60	1.4	2 × 0.3	1.6	4.0	20.7	1579	20.7	1537	24.7	1937	1881	24.7	26.7	2375	26.7	2314	34.5	3879	610	500
185	16.20	1.6	2 × 0.3	1.6	4.0	22.8	1932	22.8	1886	26.8	2325	2264	26.8	28.8	2725	28.8	2725	36.8	4366	695	580
240	18.60	1.7	2 × 0.3	1.6	4.0	25.6	2485	25.6	2430	29.6	2914	2852	29.6	31.6	3445	31.6	3369	39.6	5153	810	685
300	20.80	1.8	2 × 0.3	1.6	4.0	28.2	3083	28.2	3019	32.0	3471	3471	32.0	34.2	4126	34.2	4390	42.2	5983	910	795
400	24.30	2.0	2 × 0.3	2.0	4.0	32.3	4082	32.3	4004	36.3	4629	4531	36.3	39.3	5570	39.3	5459	46.3	7473	1050	930
500	28.80	2.2	2 × 0.5	2.0	4.0	37.2	4951	37.2	4855	42.2	5848	5729	42.2	44.3	6647	44.3	6518	51.4	8721	1190	108
630	33.00	2.4	2 × 0.5	2.5	4.0	42.2	6457	42.2	6338	47.3	77476	7334	47.3	50.4	8798	50.4	8641	56.2	10502	1350	1250
800	37.29	2.6	2 × 0.5	2.5	4.0	47.1	8190	47.1	8050	52.3	9331	9165	52.3	55.6	10790	55.6	10603	61.4	12826	1520	1440
1000	41.80	2.8	2 × 0.5	2.5	4.0	52.2	10230	52.2	10068	57.7	11533	11337	57.7	60.9	13135	60.9	12922	66.5	15100	1690	1630



### Two Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A						
		Steel Tape	Fine Steel Wire	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43						
						Layer× Thickness	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground	In Air	
1.5	0.7	2 × 0.3	1.6	4.0	10.2	110	10.2	89	15.1	294	15.1	262	17.1	543	17.1	505	23.2	1447	23.2	1394	40	34
2.5	0.7	2 × 0.3	1.6	4.0	11.0	138	11.0	115	15.0	307	15.0	275	17.0	557	17.0	520	24.0	1586	24.0	1531	50	45
4	0.7	2 × 0.3	1.6	4.0	12.0	176	12.0	151	15.0	333	15.0	300	17.0	582	17.0	545	25.0	1635	25.0	1579	65	55
6	0.7	2 × 0.3	1.6	4.0	13.0	226	13.0	178	15.1	369	15.1	336	17.1	617	17.1	580	26.0	1799	26.0	1740	82	70
10	0.7	2 × 0.3	1.6	4.0	14.6	320	14.6	289	16.7	482	16.7	446	18.8	763	18.8	722	27.6	2013	27.6	1950	120	99
16	0.7	2 × 0.3	1.6	4.0	16.5	452	16.5	416	18.6	636	18.6	595	20.6	948	20.6	902	29.5	2373	29.5	2305	140	120
25	0.9	2 × 0.3	1.6	4.0	16.6	616	16.6	579	20.2	889	20.2	844	22.2	1301	22.2	1251	30.0	2798	30.0	2722	180	160
35	0.9	2 × 0.3	1.6	4.0	18.0	808	18.0	768	21.7	1101	21.7	1053	23.7	1536	23.7	1482	31.7	3135	31.7	3051	215	200
50	1.0	2 × 0.3	1.6	4.0	19.9	1057	19.9	1013	23.5	1379	23.5	1326	25.7	1881	25.7	1820	33.7	3539	33.7	3445	255	240
70	1.1	2 × 0.3	2.0	4.0	22.6	1475	22.6	1425	26.4	1853	26.4	1790	29.4	2628	29.4	2554	36.6	4243	36.6	4136	315	300
95	1.1	2 × 0.3	2.0	4.0	25.2	1990	25.2	1929	29.2	2420	29.2	2342	32.0	3247	32.0	3162	39.2	4912	39.2	4792	380	375
120	1.2	2 × 0.5	2.0	4.0	27.7	2490	27.7	2421	32.5	3161	32.5	3070	34.7	3897	34.7	3796	41.7	5685	41.7	5552	430	430
150	1.4	2 × 0.5	2.5	4.0	30.9	3070	30.9	2984	35.7	3816	35.7	3711	38.9	4990	38.9	4871	44.7	6530	44.7	6382	480	490
185	1.6	2 × 0.5	2.5	4.0	34.0	3831	34.0	3732	39.0	4663	39.0	4539	42.2	5927	42.2	5787	48.0	7589	48.0	7417	540	570

### Three Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A						
		Steel Tape	Fine Steel Wire	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43						
						Layer× Thickness	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground	In Air	
1.5	0.7	2 × 0.3	1.6	4.0	10.7	131	10.7	109	15.1	308	15.1	276	17.1	557	17.1	520	23.7	1575	23.7	1521	28	21
2.5	0.7	2 × 0.3	1.6	4.0	11.5	169	11.5	145	15.0	332	15.0	300	17.0	582	17.0	544	24.5	1623	24.5	1567	38	30
4	0.7	2 × 0.3	1.6	4.0	12.6	222	12.6	196	15.1	373	15.1	340	17.1	621	17.1	584	25.5	1790	25.5	1732	50	49
6	0.7	2 × 0.3	1.6	4.0	13.7	291	13.7	262	15.8	442	15.8	408	17.8	700	17.8	661	26.6	1974	26.6	1914	65	55
10	0.7	2 × 0.3	1.6	4.0	15.4	424	15.4	391	17.5	595	17.5	557	19.5	885	19.5	841	28.4	2229	28.4	2164	89	78
16	0.7	2 × 0.3	1.6	4.0	17.4	611	17.4	573	19.5	819	19.5	776	21.5	1141	21.5	1093	30.4	2542	30.4	2472	115	105
25	0.9	2 × 0.3	1.6	4.0	21.0	902	21.0	855	24.6	1241	24.6	1186	26.6	1670	26.6	1609	34.4	3211	34.4	3123	150	140
35	0.9	2 × 0.3	1.6	4.0	23.2	1188	23.2	1136	26.8	1563	26.8	1502	28.8	2033	28.8	1967	36.8	3747	36.8	3647	180	170
50	1.0	2 × 0.3	1.6	4.0	25.8	1559	25.8	1501	29.6	1988	29.6	1916	31.8	2513	31.8	2432	39.6	4269	39.6	4157	215	205
70	1.1	2 × 0.3	2.0	4.0	29.3	2195	29.3	2125	33.1	2678	33.1	2593	36.1	3502	36.1	3405	43.1	5262	43.1	5134	265	260
95	1.1	2 × 0.5	2.0	4.0	32.6	2959	32.6	2876	37.4	3745	37.4	3640	39.4	4392	39.4	4280	46.6	6299	46.6	6149	315	320
120	1.2	2 × 0.5	2.0	4.0	35.6	3701	35.6	3606	40.4	4557	40.4	4438	42.4	5258	42.4	5132	49.6	7289	49.6	7124	360	370
150	1.4	2 × 0.5	2.5	4.0	38.9	4614	38.9	4499	43.7	5545	43.7	5410	46.9	6706	46.9	6555	52.7	8436	52.7	8252	405	430
185	1.6	2 × 0.5	2.5	4.0	42.7	5740	42.7	5609	47.9	6801	47.9	6641	51.1	8104	51.1	7926	56.7	9948	56.7	9736	460	490
240	1.7	2 × 0.5	2.5	4.0	47.5	7435	47.5	7276	52.9	8634	52.9	8444	56.1	10062	56.1	9852	61.3	11996	61.3	11758	530	580
300	1.8	2 × 0.5	2.5	4.0	52.0	9215	52.0	9028	57.4	10526	57.4	10311	60.6	12082	60.6	11847	65.8	14149	65.8	13877	590	660
400	2.0	2 × 0.5	3.15	4.0	58.0	11771	58.0	11540	63.8	13284	63.8	13020	68.5	15744	68.5	15448	71.8	17206	71.8	16881	670	750



### Four Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape	Fine Steel Wire Dia. mm	Thick Steel Wire Dia. mm	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43			
							Layer X Thickness	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
1.5	0.7	2 × 0.3	1.6	4.0	11.4	155	11.4	132	14.9	286	17.0	593	17.0	556	24.4	1607	24.4	1552	28	21
2.5	0.7	2 × 0.3	1.6	4.0	12.4	204	12.4	178	15.0	321	18.0	663	18.0	623	25.4	1770	25.4	1713	38	30
4	0.7	2 × 0.3	1.6	4.0	13.5	273	13.5	244	15.6	388	19.1	770	19.1	728	26.5	1954	26.5	1893	50	49
6	0.7	2 × 0.3	1.6	4.0	14.8	362	14.8	330	16.9	489	20.3	916	20.3	871	27.7	2057	27.7	1994	65	55
10	0.7	2 × 0.3	1.6	4.0	16.7	535	16.7	498	18.8	723	22.3	1148	22.3	1098	29.7	2457	29.7	2389	89	78
16	0.7	2 × 0.3	1.6	4.0	19.0	780	19.0	738	21.1	995	24.5	1472	24.5	1416	31.9	2831	31.9	2757	115	105
25	0.9	2 × 0.3	1.6	4.0	21.9	1152	21.9	1103	25.5	1505	27.5	1942	27.5	1879	35.5	3591	35.5	3496	150	140
35	0.9	2 × 0.3	1.6	4.0	23.7	1524	23.7	1471	27.3	1908	29.5	2386	29.5	2315	37.5	4105	37.5	4000	180	170
50	1.0	2 × 0.3	2.0	4.0	25.9	2010	25.9	1951	29.9	2453	32.9	3206	32.9	3118	39.9	4739	39.9	4622	215	205
70	1.1	2 × 0.5	2.0	4.0	29.9	2858	29.9	2783	34.5	3566	36.7	4197	36.7	4094	43.7	5936	43.7	5802	265	260
95	1.1	2 × 0.5	2.0	4.0	33.7	3870	33.7	3778	38.5	4679	40.5	5362	40.5	5243	47.7	7330	47.7	7171	315	320
120	1.2	2 × 0.5	2.5	4.0	37.3	4866	37.3	4757	42.1	5759	45.3	6908	45.3	6763	51.1	8565	51.1	8387	360	370
150	1.4	2 × 0.5	2.5	4.0	41.4	6013	41.4	5886	46.1	7042	50.0	8327	50.0	8154	55.4	10100	55.4	9894	405	430
185	1.6	2 × 0.5	2.5	4.0	45.8	7533	45.8	7380	51.0	8669	54.2	10044	54.2	9848	59.6	11970	59.6	11739	460	490
240	1.7	2 × 0.5	2.5	4.0	51.6	9783	51.6	9597	57.2	11106	60.4	12672	60.4	12430	65.4	14608	65.4	14338	530	580
300	1.8	2 × 0.5	2.5	4.0	56.7	12137	56.7	11918	62.3	13590	65.7	15302	65.7	15022	70.5	17449	70.5	17139	590	660
400	2.0	2 × 0.5	3.15	4.0	63.5	15527	63.5	15257	69.7	17240	74.2	19969	74.2	19624	77.3	21348	77.3	20978	670	750

### 3+1 Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape	Fine Steel Wire Dia. mm	Thick Steel Wire Dia. mm	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43			
							Layer X Thickness	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
2.5	0.7	2 × 0.3	1.6	4.0	12.1	192	12.1	166	15.2	352	17.2	600	17.2	562	25.1	1758	25.1	1700	38	30
4	0.7	2 × 0.3	1.6	4.0	13.2	256	13.2	228	15.4	403	17.4	649	17.4	611	26.2	1831	26.2	1771	50	49
6	0.7	2 × 0.3	1.6	4.0	14.4	340	14.4	309	16.6	502	18.6	769	18.6	728	27.4	2034	27.4	1971	65	55
10	0.7	2 × 0.3	1.6	4.0	16.2	492	16.2	457	18.3	674	20.3	989	20.3	943	29.2	2307	29.2	2240	89	78
16	0.7	2 × 0.3	1.6	4.0	18.4	720	18.4	679	20.5	929	22.5	1270	22.5	1219	31.4	2767	31.4	2694	115	105
25	0.9	2 × 0.3	1.6	4.0	21.5	1075	21.5	1026	25.1	1433	27.1	1857	27.1	1795	34.9	3400	34.9	3311	150	140
35	0.9	2 × 0.3	1.6	4.0	23.5	1361	23.5	1308	27.1	1753	29.3	2234	29.3	2163	37.1	3936	37.1	3836	180	170
50	1.0	2 × 0.3	1.6	4.0	25.9	1849	25.9	1790	29.7	2286	31.9	2828	31.9	2748	39.7	4568	39.7	4456	215	205
70	1.1	2 × 0.3	2.0	4.0	29.5	2582	29.5	2511	33.3	3080	36.3	3928	36.3	3831	43.5	5683	43.5	5549	265	260
95	1.1	2 × 0.5	2.0	4.0	33.0	3437	33.0	3353	37.8	4250	40.0	4956	40.0	4838	47.0	6796	47.0	6645	315	320
120	1.2	2 × 0.5	2.5	4.0	36.4	4406	36.4	4304	41.2	5288	44.4	6408	44.4	6270	50.2	7995	50.2	7827	360	370
150	1.4	2 × 0.5	2.5	4.0	40.0	5272	40.0	5154	45.0	6231	48.2	7456	48.2	7295	54.0	9218	54.0	9023	405	430
185	1.6	2 × 0.5	2.5	4.0	44.0	6643	44.0	6508	49.2	7722	52.4	9081	52.4	8898	58.0	10956	58.0	10739	460	490
240	1.7	2 × 0.5	2.5	4.0	49.3	8597	49.3	8432	45.7	9815	57.9	11292	57.9	11075	63.3	13284	63.3	13031	530	580
300	1.8	2 × 0.5	2.5	4.0	54.2	10642	54.2	10447	59.8	12005	63.0	13648	63.0	13395	68.2	15710	68.2	15419	590	660
400	2.0	2 × 0.5	3.15	4.0	60.6	13940	60.6	13698	66.6	15522	71.0	18102	71.0	17789	74.4	19483	74.4	19146	670	750





### 5 Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight										Recommending Current Rating A				
		Steel Tape	Thick Steel Wire Dia. mm	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43		
						Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
1.5	0.7	2 × 0.3	1.6	4.0	12.2	183	15.8	158	17.8	693	17.8	654	25.2	1936	25.2	1879	28	21
2.5	0.7	2 × 0.3	1.6	4.0	13.4	243	16.9	214	18.9	796	18.9	754	26.3	2007	26.3	1947	38	30
4	0.7	2 × 0.3	1.6	4.0	14.6	328	18.2	296	20.2	925	20.2	880	27.6	2223	27.6	2160	50	49
6	0.7	2 × 0.3	1.6	4.0	16.0	437	19.6	403	21.6	1098	21.6	1050	29.2	2478	29.2	2408	65	55
10	0.7	2 × 0.3	1.6	4.0	18.2	651	21.8	611	23.8	1399	23.8	1345	31.4	2951	31.4	2875	89	78
16	0.7	2 × 0.3	1.6	4.0	20.7	955	24.3	909	26.3	1791	26.3	1731	34.1	3535	34.1	3448	115	105
25	0.9	2 × 0.3	1.6	4.0	27.7	1471	31.3	1407	33.5	2488	33.5	2403	41.5	4412	41.5	4294	150	140
35	0.9	2 × 0.3	2.0	4.0	30.9	1946	34.7	1875	37.7	3339	37.7	3243	44.9	5154	44.9	5021	180	170
50	1.0	2 × 0.3	2.0	4.0	31.2	2518	35.2	2442	38.2	3932	38.2	3824	45.2	5734	45.2	5594	215	205
70	1.1	2 × 0.5	2.0	4.0	35.1	3569	39.7	3475	41.9	5122	41.9	4998	49.1	7151	49.1	6987	265	260
95	1.1	2 × 0.5	2.5	4.0	39.7	4832	44.7	4720	47.9	7029	47.9	6875	53.7	8787	53.7	8600	315	320
120	1.2	2 × 0.5	2.5	4.0	43.8	6075	49.0	5941	52.2	8487	52.2	8305	57.8	10298	57.8	10081	360	370
150	1.4	2 × 0.5	2.5	4.0	46.6	7460	51.8	7305	55.0	10016	55.0	9817	60.5	11907	60.5	11672	405	430
185	1.6	2 × 0.5	2.5	4.0	51.9	9352	57.3	9165	60.5	12218	60.5	11983	65.7	14285	65.7	14013	460	490
240	1.7	2 × 0.5	2.5	4.0	57.5	12141	63.3	11919	66.5	15353	66.5	15069	71.3	17462	71.3	17148	530	580
300	1.8	2 × 0.5	2.5	4.0	63.2	15077	69.2	14815	73.7	19419	73.7	19085	77.0	20889	77.0	20530	590	660

### 3 + 2 Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight										Recommending Current Rating A				
		Steel Tape	Thick Steel Wire Dia. mm	YJV	YJY	YJV22		YJV23		YJV32		YJV33		YJV42		YJV43		
						Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
2.5	0.7	2 × 0.3	1.6	4.0	12.6	217	16.2	190	18.2	694	18.2	654	25.6	1785	25.6	1727	38	30
4	0.7	2 × 0.3	1.6	4.0	13.7	290	17.3	261	19.3	806	19.3	763	26.7	1974	26.7	1913	50	49
6	0.7	2 × 0.3	1.6	4.0	15.0	391	18.6	359	20.6	947	20.6	901	28.0	2193	28.0	2129	65	55
10	0.7	2 × 0.3	1.6	4.0	16.8	563	20.4	526	22.4	1178	22.4	1128	30.0	2501	30.0	2429	89	78
16	0.7	2 × 0.3	1.6	4.0	19.1	831	22.7	789	24.7	1524	24.7	1468	32.5	3015	32.5	2933	115	105
25	0.9	2 × 0.3	1.6	4.0	23.3	1248	26.9	1196	28.9	2095	28.9	2029	36.9	3808	36.9	3709	150	140
35	0.9	2 × 0.3	1.6	4.0	27.1	1562	30.7	1500	32.9	2558	32.9	2478	40.7	4373	40.7	4263	180	170
50	1.0	2 × 0.3	2.0	4.0	30.8	2201	34.6	2130	37.6	3594	37.6	3497	44.8	5407	44.8	5274	215	205
70	1.1	2 × 0.3	2.0	4.0	34.4	3009	38.4	2925	41.4	4573	41.4	4456	48.4	6472	48.4	6322	265	260
95	1.1	2 × 0.5	2.0	4.0	39.1	4069	43.7	3963	45.9	5800	45.9	5664	52.9	7991	52.9	7819	315	320
120	1.2	2 × 0.5	2.5	4.0	43.0	5227	48.1	5104	51.3	7608	51.3	7443	57.1	9432	57.1	9233	360	370
150	1.4	2 × 0.5	2.5	4.0	45.6	6131	50.8	5996	54.0	8676	54.0	8494	59.6	10580	59.6	10364	405	430
185	1.6	2 × 0.5	2.5	4.0	50.9	7721	56.3	7557	59.5	10535	59.5	10320	64.7	12528	64.7	12284	460	490
240	1.7	2 × 0.5	2.5	4.0	56.5	9868	62.1	9671	65.3	13038	65.3	12784	70.3	15165	70.3	14882	530	580
300	1.8	2 × 0.5	2.5	4.0	62.1	12260	67.9	12026	71.1	15751	71.1	15456	75.9	18047	75.9	17722	590	660



### 4+1 Cores, Copper Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A						
		Steel Tape	Fine Steel Wire	YJV	YJY	YJV22	YJV23	YJV32	YJV33	YJV42	YJV43	In Ground		In Air								
												Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km			
2.5	0.7	2 × 0.3	1.6	4.0	12.8	229	203	16.4	439	16.4	403	18.4	707	18.4	667	25.8	1801	25.8	1742	38	50	30
4	0.7	2 × 0.3	1.6	4.0	14.0	308	278	17.6	537	17.6	498	19.6	826	19.6	782	27.0	1995	27.0	1933	50	65	49
6	0.7	2 × 0.3	1.6	4.0	15.3	412	379	18.9	661	18.9	620	20.8	986	20.8	939	28.3	2217	28.3	2152	65	89	55
10	0.7	2 × 0.3	1.6	4.0	17.3	604	567	20.8	885	20.8	838	22.8	1238	22.8	1187	30.4	2547	30.4	2473	89	115	78
16	0.7	2 × 0.3	1.6	4.0	19.6	891	847	23.2	1207	23.2	1155	25.2	1603	25.2	1546	33.0	3081	33.0	2996	115	150	105
25	0.9	2 × 0.3	1.6	4.0	23.4	1336	1283	27.0	1713	27.0	1651	29.0	2183	29.0	2116	37.0	3896	37.0	3796	150	180	140
35	0.9	2 × 0.3	1.6	4.0	27.1	1741	1679	30.9	2190	30.9	2115	32.9	2720	32.9	2640	40.9	4571	40.9	4455	180	215	170
50	1.0	2 × 0.3	2.0	4.0	31.0	2448	2373	34.8	2959	34.8	2870	37.8	3844	37.8	3742	44.8	5641	44.8	5508	215	265	205
70	1.1	2 × 0.5	2.0	4.0	34.6	3354	3265	34.6	4189	39.5	4078	41.5	4902	41.5	4785	48.7	6823	48.7	6666	265	320	370
95	1.1	2 × 0.5	2.5	4.0	39.2	4491	4385	44.2	5453	44.2	5322	47.4	6683	47.4	6536	53.2	8437	53.2	8258	315	430	490
120	1.2	2 × 0.5	2.5	4.0	43.3	5712	5584	48.1	6746	48.1	6597	51.5	8098	51.5	7925	57.1	9900	57.1	9700	360	430	490
150	1.4	2 × 0.5	2.5	4.0	45.9	6904	6762	51.1	8045	51.1	7874	54.3	9453	54.3	9263	59.9	11360	59.9	11136	405	460	490
185	1.6	2 × 0.5	2.5	4.0	51.2	8599	8427	56.6	9890	56.6	9685	59.8	11457	59.8	11232	65.0	13412	65.0	13160	460	530	580
240	1.7	2 × 0.5	2.5	4.0	56.7	11030	10825	62.3	12485	62.3	12243	65.5	14205	65.5	13941	70.5	16334	70.5	16041	530	630	730

### Single core, Aluminum Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A						
		Steel Tape	Fine Steel Wire	YJLV	YJLY	YJLV22	YJLV23	YJLV32	YJLV33	YJLV42	YJLV43	In Ground		In Air								
												Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km			
2.5	0.7	2 × 0.3	1.6	4.0	6.1	41	33	14.9	326	14.9	294	16.9	586	16.9	550	21.7	1358	21.7	1301	46	61	44
4	0.7	2 × 0.3	1.6	4.0	6.5	49	40	14.9	330	14.9	298	16.9	590	16.9	553	21.7	1362	21.7	1313	61	79	57
6	0.7	2 × 0.3	1.6	4.0	7.1	60	49	14.9	331	14.9	299	16.9	591	16.9	554	21.7	1363	21.7	1314	79	100	75
10	0.7	2 × 0.3	1.6	4.0	7.9	76	64	14.9	333	14.9	301	16.9	593	16.9	557	21.7	1365	21.7	1317	100	135	99
16	0.7	2 × 0.3	1.6	4.0	8.8	100	86	15.0	346	15.0	313	17.0	604	17.0	567	22.6	1504	22.6	1454	135	170	125
25	0.9	2 × 0.3	1.6	4.0	11.0	150	131	15.4	364	15.4	331	17.4	619	17.4	581	24.8	1685	24.8	1629	170	205	155
35	0.9	2 × 0.3	1.6	4.0	12.0	186	166	16.4	418	16.4	382	18.4	696	18.4	655	25.8	1838	25.8	1779	205	245	190
50	1.0	2 × 0.3	1.6	4.0	13.2	241	219	17.6	494	17.6	456	19.6	792	19.6	748	27.0	2011	27.0	1950	245	305	240
70	1.1	2 × 0.3	1.6	4.0	15.1	318	292	19.5	604	19.5	561	21.5	948	21.5	900	29.1	2228	29.1	2158	305	370	290
95	1.1	2 × 0.3	1.6	4.0	16.9	410	379	21.1	717	21.1	670	23.1	1093	23.1	1040	30.7	2436	30.7	2362	370	420	340
120	1.2	2 × 0.3	1.6	4.0	18.5	500	465	22.7	833	22.7	782	24.7	1226	24.7	1170	32.5	2767	32.5	2684	420	475	390
150	1.4	2 × 0.3	1.6	4.0	20.7	622	580	24.7	980	24.7	924	26.7	1418	26.7	1357	34.5	3010	34.5	2922	475	540	450
185	1.6	2 × 0.3	1.6	4.0	22.8	752	706	26.8	1145	26.8	1084	28.8	1611	28.8	1545	36.8	3285	36.8	3186	540	630	535
240	1.7	2 × 0.3	1.6	4.0	25.6	955	900	29.6	1394	29.6	1322	31.6	1915	31.6	1839	39.6	3735	39.6	3623	630	710	615
300	1.8	2 × 0.3	1.6	4.0	28.2	1170	1106	32.0	1636	32.0	1558	34.2	2213	34.2	2126	42.2	4195	42.2	4070	710	820	730
400	2.0	2 × 0.3	2.0	4.0	32.3	1531	1453	36.3	2078	36.3	1980	39.3	3019	39.3	2908	46.3	4922	46.3	4779	820	940	850
500	2.2	2 × 0.5	2.0	4.0	37.2	1869	1773	42.2	2766	42.2	2647	44.3	3565	44.3	3436	51.4	5639	51.4	5474	940	1080	1000
630	3.00	2 × 0.5	2.5	4.0	42.2	2416	2297	47.3	3435	47.3	3293	50.4	4757	50.4	4600	56.2	6650	56.2	6461	1080	1220	1160
800	37.29	2 × 0.5	2.5	4.0	47.1	3030	2890	52.3	4171	52.3	4005	55.6	5630	55.6	5443	61.4	7666	61.4	7443	1220	1380	1330
1000	41.80	2 × 0.5	2.5	4.0	52.2	3746	3584	57.7	5049	57.7	4853	60.9	6651	60.9	6438	66.5	8866	66.5	8616	1380		



### Two Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour				Approx. Overall Diameter & Weight										Recommending Current Rating A					
		Steel Tape		Thick Steel Wire	YJLV	YJLY		YJLV22		YJLV23		YJLV32		YJLY33				YJLV42		YJLY43	
		Layer X Thickness	Dia. mm	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
2.5	0.7	2 × 0.3	1.6	4.0	11.0	106	84	15.0	276	15.0	244	17.0	526	17.0	489	24.0	1554	24.0	1500	40	25
4	0.7	2 × 0.3	1.6	4.0	12.0	126	101	15.0	283	15.0	250	17.0	532	17.0	495	25.0	1585	25.0	1528	51	38
6	0.7	2 × 0.3	1.6	4.0	13.1	154	126	15.1	290	15.1	266	17.1	546	17.1	508	26.1	1728	26.1	1668	66	45
10	0.7	2 × 0.3	1.6	4.0	14.6	194	162	16.7	350	16.7	319	18.8	637	18.8	596	27.6	1887	27.6	1824	82	65
16	0.7	2 × 0.3	1.6	4.0	16.5	251	215	18.6	436	18.6	395	20.6	747	20.6	701	29.5	2172	29.5	2104	105	89
25	0.9	2 × 0.3	1.6	4.0	16.6	303	266	20.2	576	20.2	531	22.2	988	22.2	938	30.0	2485	30.0	2409	135	120
35	0.9	2 × 0.3	1.6	4.0	18.0	376	336	21.7	669	21.7	621	23.7	1104	23.7	1050	31.7	2703	31.7	2619	165	145
50	1.0	2 × 0.3	1.6	4.0	19.9	471	427	23.5	793	23.5	740	25.7	1295	25.7	1234	33.7	2953	33.7	2859	195	175
70	1.1	2 × 0.3	2.0	4.0	22.6	628	578	26.4	1006	26.4	943	29.4	1781	29.4	1707	36.6	3396	36.6	3289	240	220
95	1.1	2 × 0.3	2.0	4.0	25.2	817	756	29.2	1247	29.2	1169	32.0	2074	32.0	1989	39.2	3739	39.2	3619	285	270
120	1.2	2 × 0.5	2.0	4.0	27.7	1006	937	32.5	1677	32.5	1586	34.7	2413	34.7	2312	41.7	4201	41.7	4068	326	316
150	1.4	2 × 0.5	2.5	4.0	30.9	1248	1162	35.7	1994	35.7	1889	38.9	3168	38.9	3049	44.7	4708	44.7	4560	366	365
185	1.6	2 × 0.5	2.5	4.0	34.0	1542	1443	39.0	2374	39.0	2250	42.2	3638	42.2	3498	48.0	5300	48.0	5128	413	420

### Three Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour				Approx. Overall Diameter & Weight										Recommending Current Rating A					
		Steel Tape		Thick Steel Wire	YJLV	YJLY		YJLV22		YJLV23		YJLV32		YJLY33				YJLV42		YJLY43	
		Layer X Thickness	Dia. mm	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
2.5	0.7	2 × 0.3	1.6	4.0	11.5	122	98	15.0	285	15.0	253	17.0	535	17.0	497	24.5	1575	24.5	1520	24	17
4	0.7	2 × 0.3	1.6	4.0	12.6	147	121	15.1	297	15.1	265	17.1	546	17.1	508	25.5	1715	25.5	1657	35	27
6	0.7	2 × 0.3	1.6	4.0	13.8	182	153	15.9	335	15.9	300	17.9	591	17.9	552	26.8	1867	26.8	1806	49	37
10	0.7	2 × 0.3	1.6	4.0	15.4	234	201	17.5	405	17.5	367	19.5	695	19.5	652	28.4	2039	28.4	1975	66	57
16	0.7	2 × 0.3	1.6	4.0	17.4	310	272	19.5	509	19.5	466	21.5	840	21.5	792	30.4	2241	30.4	2171	89	77
25	0.9	2 × 0.3	1.6	4.0	21.0	433	386	24.6	772	24.6	717	26.6	1201	26.6	1140	34.4	2742	34.4	2654	115	105
35	0.9	2 × 0.3	1.6	4.0	23.2	539	487	26.8	914	26.8	853	28.8	1384	28.8	1318	36.8	3098	36.8	2998	135	125
50	1.0	2 × 0.3	1.6	4.0	25.8	681	623	29.6	1110	29.6	1038	31.8	1635	31.8	1554	39.6	3391	39.6	3279	165	155
70	1.1	2 × 0.3	2.0	4.0	29.3	924	854	33.1	1407	33.1	1322	36.1	2231	36.1	2134	43.1	3991	43.1	3863	220	195
95	1.1	2 × 0.5	2.0	4.0	32.6	1199	1116	37.4	1985	37.4	1880	39.4	2632	39.4	2520	46.6	4539	46.6	4389	240	235
120	1.2	2 × 0.5	2.0	4.0	35.6	1476	1381	40.4	2332	40.4	2213	42.4	3033	42.4	2907	49.6	5064	49.6	4899	275	280
150	1.4	2 × 0.5	2.5	4.0	38.9	1880	1765	43.7	2811	43.7	2676	46.9	3972	46.9	3821	52.7	5702	52.7	5518	310	320
185	1.6	2 × 0.5	2.5	4.0	42.7	2307	2176	47.9	3368	47.9	3208	51.1	4671	51.1	4493	56.7	6515	56.7	6303	350	370
240	1.7	2 × 0.5	2.5	4.0	47.5	2930	2771	52.9	4129	52.9	3939	56.1	5557	56.1	5347	61.3	7491	61.3	7253	410	440
300	1.8	2 × 0.5	2.5	4.0	52.0	3584	3397	57.4	4895	57.4	4680	60.6	6451	60.6	6216	65.8	8518	65.8	8246	460	520
400	2.0	2 × 0.5	3.15	4.0	58.0	4533	4302	63.8	6045	63.8	5782	68.5	8506	68.5	8205	71.8	9968	71.8	9643	523	615



### Four Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape		YJLV		YJLV22		YJLV23		YJLV32		YJLV33		YJLV42				YJLV43		
		Layer X Thickness	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	In Ground	In Air
2.5	0.7	2 × 0.3	1.6	4.0	12.4	141	15.0	291	15.0	258	18.0	600	18.0	561	25.4	1707	25.4	1650	24	17
4	0.7	2 × 0.3	1.6	4.0	13.5	172	15.6	322	15.6	288	19.1	670	19.1	628	26.5	1853	26.5	1793	35	27
6	0.7	2 × 0.3	1.6	4.0	14.9	217	17.0	383	17.0	346	20.5	772	20.5	726	27.9	2017	27.9	1953	49	37
10	0.7	2 × 0.3	1.6	4.0	16.7	282	18.8	470	18.8	428	22.3	895	22.3	845	29.7	2204	29.7	2136	66	57
16	0.7	2 × 0.3	1.6	4.0	19.0	378	21.1	593	21.1	545	24.5	1070	24.5	1015	31.9	2429	31.9	2355	89	77
25	0.9	2 × 0.3	1.6	4.0	21.9	527	25.5	880	25.5	822	27.5	1317	27.5	1254	35.5	2966	35.5	2871	115	105
35	0.9	2 × 0.3	1.6	4.0	23.7	659	27.3	1043	27.3	980	29.5	1521	29.5	1450	37.5	3240	37.5	3135	135	125
50	1.0	2 × 0.3	2.0	4.0	25.9	840	29.9	1283	29.9	1207	32.9	2036	32.9	1948	39.9	3569	39.9	3452	165	155
70	1.1	2 × 0.5	2.0	4.0	29.9	1163	34.5	1871	34.5	1778	36.7	2502	36.7	2399	43.7	4241	43.7	4107	200	195
95	1.1	2 × 0.5	2.0	4.0	33.7	1524	38.5	2333	38.5	2220	40.5	3016	40.5	2897	47.7	4984	47.7	4825	240	235
120	1.2	2 × 0.5	2.0	4.0	37.3	1898	42.1	2791	42.1	2662	45.3	3940	45.3	3795	51.1	5597	51.1	5419	275	280
150	1.4	2 × 0.5	2.5	4.0	41.4	2369	46.6	3398	46.6	3242	50.0	4683	50.0	4510	55.4	6456	55.4	6250	310	320
185	1.6	2 × 0.5	2.5	4.0	45.8	2955	51.0	4091	51.0	3913	54.2	5466	54.2	5270	59.6	7392	59.6	7161	350	370
240	1.7	2 × 0.5	2.5	4.0	51.6	3777	57.2	5100	57.2	4879	60.4	6666	60.4	6424	65.4	8602	65.4	8332	410	440
300	1.8	2 × 0.5	2.5	4.0	56.7	4630	62.3	6083	62.3	5833	65.7	7795	65.7	7515	70.5	9942	70.5	9632	460	570
400	2.0	2 × 0.5	3.15	4.0	63.5	5877	69.7	7590	69.7	7275	74.2	10319	74.2	9974	77.3	11698	77.3	11328	523	615

### 3+1 Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape		YJLV		YJLV22		YJLV23		YJLV32		YJLV33		YJLV42				YJLV43		
		Layer X Thickness	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	Di. mm	In Ground	In Air
4	0.7	2 × 0.3	1.6	4.0	13.2	165	15.4	312	15.4	278	17.4	558	17.4	520	26.2	1740	26.2	1680	35	27
6	0.7	2 × 0.3	1.6	4.0	14.4	206	16.6	369	16.6	333	18.6	651	18.6	609	27.4	1901	27.4	1838	49	37
10	0.7	2 × 0.3	1.6	4.0	16.2	266	18.3	449	18.3	409	20.3	763	20.3	718	29.2	2185	29.2	2118	66	57
16	0.7	2 × 0.3	1.6	4.0	18.4	355	20.5	565	20.5	519	22.5	906	22.5	855	31.4	2403	31.4	2330	89	77
25	0.9	2 × 0.3	1.6	4.0	21.5	504	25.1	862	25.1	805	27.1	1286	27.1	1224	34.9	2829	34.9	2740	115	105
35	0.9	2 × 0.3	1.6	4.0	23.5	610	27.1	1002	27.1	940	29.3	1483	29.3	1412	37.1	3185	37.1	3085	135	125
50	1.0	2 × 0.3	1.6	4.0	25.9	799	29.7	1236	29.7	1165	31.9	1778	31.9	1697	39.7	3518	39.7	3406	165	155
70	1.1	2 × 0.3	2.0	4.0	29.5	1075	33.3	1572	33.3	1487	36.3	2420	36.3	2323	43.5	4175	43.5	4041	200	195
95	1.1	2 × 0.5	2.0	4.0	33.0	1385	37.8	2198	37.8	2091	40.0	2904	40.0	2786	47.0	4744	47.0	4593	240	235
120	1.2	2 × 0.5	2.5	4.0	36.4	1758	41.2	2640	41.2	2518	44.4	3760	44.4	3622	50.2	5347	50.2	5179	275	280
150	1.4	2 × 0.5	2.5	4.0	40.0	2115	45.0	3074	45.0	2930	48.2	4299	48.2	4138	54.0	6061	54.0	5866	310	320
185	1.6	2 × 0.5	2.5	4.0	44.0	2624	49.2	3703	49.2	3538	52.4	5062	52.4	4879	58.0	6937	58.0	6720	350	370
240	1.7	2 × 0.5	2.5	4.0	49.3	3350	54.7	4568	54.7	4370	57.9	6045	57.9	5828	63.3	8037	63.3	7784	410	440
300	1.8	2 × 0.5	2.5	4.0	54.2	4100	59.8	5463	59.8	5231	63.0	7106	63.0	6853	68.2	9168	68.2	8877	460	570
400	2.0	2 × 0.5	3.15	4.0	60.6	5295	66.6	6877	66.6	6593	71.0	9457	71.0	9144	74.4	10838	74.4	10501	523	615



### Five Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape	Fine Steel Wire	Thick Steel Wire	YJLV		YJLV1		YJLV2		YJLV23		YJLV32		YJLV33		YJLV42		YJLV43	
					Layer× Thickness	Dia. mm	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
2.5	0.7	2 × 0.3	1.6	4.0	13.3	164	135	16.9	382	345	18.9	717	18.9	675	26.3	1928	26.3	1868	24	17
4	0.7	2 × 0.3	1.6	4.0	14.6	203	171	18.2	441	401	20.2	800	20.2	755	27.6	2098	27.6	2035	35	27
6	0.7	2 × 0.3	1.6	4.0	16.0	256	221	19.6	518	474	21.6	918	21.6	869	29.2	2299	29.2	2228	49	37
10	0.7	2 × 0.3	1.6	4.0	18.2	335	295	21.8	629	580	23.8	1083	23.8	1029	31.4	2635	31.4	2559	66	57
16	0.7	2 × 0.3	1.6	4.0	20.7	453	407	24.3	788	733	26.3	1289	26.3	1229	34.1	3033	34.1	2946	89	77
25	0.9	2 × 0.3	1.6	4.0	27.7	689	625	31.3	1135	1063	33.5	1706	33.5	1624	41.5	3630	41.5	3512	115	105
35	0.9	2 × 0.3	2.0	4.0	30.9	865	794	34.7	1379	1291	37.7	2258	37.7	2162	44.9	4073	44.9	3940	135	125
50	1.0	2 × 0.3	2.0	4.0	31.2	1054	979	35.2	1584	1489	38.2	2468	38.2	2360	45.2	4270	45.2	4130	165	155
70	1.1	2 × 0.5	2.0	4.0	35.1	1451	1357	39.7	2277	2165	41.9	3004	41.9	2880	49.1	5033	49.1	4869	200	195
95	1.1	2 × 0.5	2.5	4.0	39.7	1899	1787	44.7	2870	2732	47.9	4096	47.9	3942	53.7	5854	53.7	5667	240	235
120	1.2	2 × 0.5	2.5	4.0	43.8	2366	2231	49.0	3455	3291	52.2	4778	52.2	4596	57.8	6589	57.8	6372	275	280
150	1.4	2 × 0.5	2.5	4.0	46.6	2905	2749	51.8	4059	3879	55.0	5460	55.0	5261	60.5	7351	60.5	7116	310	320
185	1.6	2 × 0.5	2.5	4.0	51.9	3629	3442	57.3	4936	4722	60.5	6495	60.5	6260	65.7	8562	65.7	8290	350	370
240	1.7	2 × 0.5	2.5	4.0	57.5	4633	4411	63.3	6133	5871	66.5	7845	66.5	7561	71.3	9954	71.3	9640	410	440
300	1.8	2 × 0.5	2.5	4.0	63.2	5692	5431	69.2	7366	7062	73.7	10034	73.7	9700	77.0	11504	77.0	11145	460	570

### 3 + 2 Cores, Aluminium Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour		Approx. Overall Diameter & Weight												Recommending Current Rating A				
		Steel Tape	Fine Steel Wire	Thick Steel Wire	YJLV		YJLV1		YJLV2		YJLV23		YJLV32		YJLV33		YJLV42		YJLV43	
					Layer× Thickness	Dia. mm	Dia. mm	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
4	0.7	2 × 0.3	1.6	4.0	13.7	184	155	17.3	408	370	19.3	700	19.3	657	26.7	1868	26.7	1807	35	27
6	0.7	2 × 0.3	1.6	4.0	15.0	231	198	18.6	478	437	20.6	788	20.6	741	28.0	2034	28.0	1970	49	37
10	0.7	2 × 0.3	1.6	4.0	16.8	301	264	20.4	575	529	22.4	916	22.4	865	30.0	2239	30.0	2166	66	57
16	0.7	2 × 0.3	1.6	4.0	19.1	403	361	22.7	712	661	24.7	1096	24.7	1040	32.5	2587	32.5	2505	89	77
25	0.9	2 × 0.3	1.6	4.0	23.3	582	530	26.9	959	897	28.9	1429	28.9	1363	36.9	3142	36.9	3043	115	105
35	0.9	2 × 0.3	1.6	4.0	27.1	708	646	30.7	1144	1073	32.9	1705	32.9	1625	40.7	3520	40.7	3410	135	125
50	1.0	2 × 0.3	2.0	4.0	30.8	954	883	34.6	1463	1379	37.6	2347	37.6	2250	44.8	4160	44.8	4027	165	155
70	1.1	2 × 0.3	2.0	4.0	34.4	1263	1179	38.4	1848	1745	41.4	2829	41.4	2712	48.4	4728	48.4	4578	200	195
95	1.1	2 × 0.5	2.5	4.0	39.1	1670	1564	43.7	2590	2466	45.9	3402	45.9	3266	52.9	5593	52.9	5421	240	235
120	1.2	2 × 0.5	2.5	4.0	43.0	2111	1988	48.1	3164	3015	51.3	4493	51.3	4328	57.1	6317	57.1	6118	275	280
150	1.4	2 × 0.5	2.5	4.0	45.6	2454	2319	50.8	3592	3428	54.0	5000	54.0	4818	59.6	6904	59.6	6688	310	320
185	1.6	2 × 0.5	2.5	4.0	50.9	3078	2914	56.3	4368	4171	59.5	5894	59.5	5679	64.7	7887	64.7	7643	350	370
240	1.7	2 × 0.5	2.5	4.0	56.5	3884	3687	62.1	5336	5103	65.3	7056	65.3	6802	70.3	9183	70.3	8900	410	440
300	1.8	2 × 0.5	2.5	4.0	62.1	4780	4546	67.9	6402	6129	71.1	8275	71.1	7980	75.9	10571	75.9	10246	460	570

### 4+1 Cores, Aluminum Conductor, XLPE Insulated Power Cable

Nominal Cross Section mm <sup>2</sup>	Nominal Thickness of Insulation mm	Size of Armour			Approx. Overall Diameter & Weight												Recommending Current Rating A		
		Steel Tape	Fine Steel Wire Dia. mm	Thick Steel Wire Dia. mm	YJLV		YJLV22		YJLV23		YJLV32		YJLV33		YJLV42		YJLV43		
					Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	Overall Dia. mm	Weight kg/km	In Ground
4	0.7	2 × 0.3	1.6	4.0	192	17.6	421	17.6	382	19.6	710	19.6	666	27.0	1879	27.0	1817	35	27
6	0.7	2 × 0.3	1.6	4.0	241	18.9	492	18.9	450	20.8	815	20.8	768	28.3	2047	28.3	1982	49	37
10	0.7	2 × 0.3	1.6	4.0	315	20.8	595	20.8	548	22.8	949	22.8	891	30.4	2258	30.4	2184	66	57
16	0.7	2 × 0.3	1.6	4.0	426	23.2	742	23.2	690	25.2	1138	25.2	1081	33.0	2616	33.0	2531	89	77
25	0.9	2 × 0.3	1.6	4.0	613	23.4	990	27.0	928	29.0	1460	29.0	1393	37.0	3173	37.0	3073	115	105
35	0.9	2 × 0.3	1.6	4.0	769	27.1	1218	30.9	1143	32.9	1748	32.9	1668	40.9	3599	40.9	3483	135	125
50	1.0	2 × 0.3	2.0	4.0	1046	31.0	1557	34.8	1468	37.8	2442	37.8	2340	44.8	4239	44.8	4106	165	155
70	1.1	2 × 0.5	2.0	4.0	1390	34.6	2226	39.5	2115	41.5	2939	41.5	2822	48.7	4860	48.7	4703	200	195
95	1.1	2 × 0.5	2.5	4.0	1810	39.2	2773	44.2	2642	47.4	4003	47.4	3856	53.2	5757	53.2	5578	240	235
120	1.2	2 × 0.5	2.5	4.0	2283	43.3	3320	48.1	3171	51.5	4672	51.5	4499	57.1	6474	57.1	6247	275	280
150	1.4	2 × 0.5	2.5	4.0	2727	45.9	3871	51.1	3700	54.3	5279	54.3	5089	59.9	7186	59.9	6962	310	320
185	1.6	2 × 0.5	2.5	4.0	3394	51.2	4687	56.6	4482	59.8	6254	59.8	6029	65.0	8209	65.0	7957	350	370
240	1.7	2 × 0.5	2.5	4.0	4298	56.7	5757	62.3	5515	65.5	7477	65.5	7213	70.5	9606	70.5	9313	410	440

