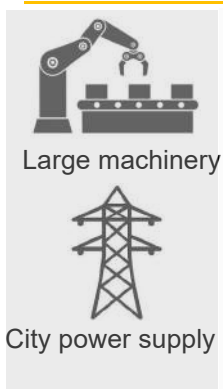


# Medium voltage power cable YJV/YJLV/YJY/YJLY

 **SHENXING CABLE GROUP**

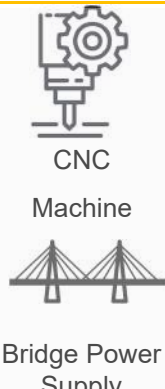


## APPLICATION



Large machinery

City power supply



CNC

Machine

Bridge Power Supply



Mining

Machinery

Rail Transit



Metallurgical

furnace

Business Center



Remote transmission



Safe&reliable



High load



Long service life

## 导体



- ✓ 99.99% copper
- ✓ High Conductivity
- ✓ Low loss
- ✓ Low heat dissipation



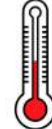
- ✓ 99.99% Aluminum
- ✓ Low cost
- ✓ Light weight
- ✓ Easy to construct



Cost savings



Fire retardant



High temperature resistance 90°C

## Conductor shield (inner shield)

Semi-conductive materials: prevent tip discharge.

## Insulator

XLPE: strong insulation, high temperature resistance, corrosion resistance, WD

## Insulation shield (outer shield)

Semi-conductive materials: avoid partial discharge and protect the insulation layer.

## Metal shielding layer

Copper tape: flame retardant, interference shielding, good mechanical strength and corrosion resistance.

## Armor layer

Steel strip or steel wire: improve mechanical strength, corrosion resistance, and prevent external damage.

## Outer sheath layer

PVC: Good flexibility, antifreeze and waterproof, NZ, oil resistant, wear resistant, acid and alkali resistant, long service life.

## Experimental performance

Rated voltage:  $U_0/U$  3.6/6, 6/6, 6/10, 8.7/10, 8.7/15, 12/20, 18/20, 18/30, 21/35, 26/35kV

Maximum operating temperature 90°C

When short-circuited (no more than 5 seconds), the maximum conductor temperature is 250°C

The laying temperature  $\geq 0^\circ\text{C}$

Tensile Strength  $\geq 12.5\text{N/mm}^2$

Cable bending radius: Single core:  $20D \pm 5\%$  Three cores without armor:  $15D \pm 5\%$  Three core armor:  $12D \pm 5\%$

## TECHNOLOGY

Three layers are co-extruded and tightly combined to improve the cable's pressure resistance & service life.



# Medium voltage power cable YJV/YJLV/YJY/YJLY

 **SHENXING CABLE GROUP**



**Voltage level: 6/6kV & 6/10kV**

**Accept Customization**

NO. OF COND.	WD (mm)	CSA (mm <sup>2</sup> )	I.D (mm)	Resistance (Ω/km)		Current (A)		No Armor				With steel armor				
								Sheath THK (mm)	OD (mm)	weight kg/km		Sheath THK (mm)	Armour THK (mm)	OD (mm)	weight kg/km	
				CU	AL	CU	AL			CU	AL				CU	AL
 Single Core	6.0	25	3.4	0.727	1.2	160/165	120/130	1.6	20.1	646	491					
	7.0	35	3.4	0.524	0.868	190/205	145/155	1.6	21.7	765	548					
	8.3	50	3.4	0.387	0.641	225/245	175/190	1.7	23.0	937	628					
	9.8	70	3.4	0.268	0.443	275/305	215/235	1.7	24.7	1166	732					
	11.5	95	3.4	0.193	0.32	330/370	255/290	1.8	26.3	1435	847					
	12.9	120	3.4	0.153	0.253	375/430	290/335	1.8	27.7	1699	957					
	14.5	150	3.4	0.124	0.206	425/490	330/380	1.9	29.5	2926	1098					
	16.0	185	3.4	0.0991	0.164	480/560	370/435	1.9	31.1	2386	1241					
	18.3	240	3.4	0.0754	0.125	555/665	435/515	2.0	33.5	2956	1470					
	20.5	300	3.4	0.0601	0.1	630/765	490/595	2.1	35.9	3672	1715					
 Three Cores	6.0	25	3.4	0.727	1.2	125/120	100/90	2.2	41.1	2017	1549	2.4	0.2x2	47.3	3155	2687
	7.0	35	3.4	0.524	0.868	155/140	120/110	2.3	43.3	2392	1737	2.5	0.2X2	49.7	3610	2955
	8.3	50	3.4	0.387	0.641	180/165	140/130	2.4	46.3	2956	2020	2.6	0.2x2	52.7	4252	3316
	9.8	70	3.4	0.268	0.443	220/210	170/165	2.5	50.4	3758	2414	2.7	0.2X2	56.6	5102	3791
	11.5	95	3.4	0.193	0.32	265/255	210/220	2.7	54.0	4603	2824	2.8	0.2x2	60.2	6073	4295
	12.9	120	3.4	0.153	0.253	300/290	235/225	2.8	57.2	5463	3217	2.9	0.2X2	63.4	7016	4770
	14.5	150	3.4	0.124	0.206	340/330	260/255	2.9	60.9	6489	3681	3.1	0.2x2	67.1	8137	5329
	16.0	185	3.4	0.0991	0.164	380/375	300/295	3.0	66.5	7654	4191	3.2	0.2X2	70.7	9395	5932
	18.3	240	3.4	0.0754	0.125	435/435	345/345	3.2	69.7	9471	4979	3.4	0.5x2	76.9	11521	7028
	20.5	300	3.4	0.0601	0.1	485/495	390/390	3.3	74.6	11404	5788	3.6	0.5x2	82.0	13626	8011

The current parameters are expressed as: soil laying/air laying corresponding parameter values. The above data is for reference only.



# Medium voltage power cable YJV/YJLV/YJY/YJLY

 **SHENXING CABLE GROUP**



**Voltage level: 12/20kV**

**Accept customization**

NO. OF COND.	WD (mm)	CSA (mm <sup>2</sup> )	I.D (mm)	Resistance (Ω/km)		Current (A)		No Armor				With steel armor				
								Sheath THK (mm)	OD (mm)	weight kg/km		Sheath THK (mm)	Armour THK (mm)	OD (mm)	weight kg/km	
				CU	AL	CU	AL			CU	AL				CU	AL
 Single Core	7.0	35	5.5	0.524	0.868	190/205	145/155	1.8	26.6	977	761					
	8.3	50	5.5	0.387	0.641	225/245	175/190	1.8	27.9	1159	849					
	9.8	70	5.5	0.268	0.443	275/305	215/235	1.9	29.8	1412	979					
	11.5	95	5.5	0.193	0.32	330/370	255/290	1.9	31.4	1659	1107					
	12.9	120	5.5	0.153	0.253	375/430	290/335	2.0	33.0	1984	1241					
	14.5	150	5.5	0.124	0.206	425/490	330/380	2.0	34.6	2311	1382					
	16.0	185	5.5	0.0991	0.164	480/560	370/435	2.1	36.4	2699	1553					
	18.3	240	5.5	0.0754	0.125	555/665	435/515	2.2	38.8	3289	1803					
	20.5	300	5.5	0.0601	0.1	630/765	490/595	2.2	41.0	3907	2050					
	23.5	400	5.5	0.0740	0.0778	725/890	565/695	2.3	45.4	5029	2553					
 Three Cores	7.0	35	5.5	0.524	0.868	155/140	120/110	2.7	54.7	3226	2571	2.8	0.2x2	60.9	4714	4052
	8.3	50	5.5	0.387	0.641	180/165	140/130	2.8	57.7	3835	2899	2.9	0.2x2	63.9	5401	4465
	9.8	70	5.5	0.268	0.443	220/210	170/165	2.9	61.5	4640	3330	3.1	0.2x2	67.9	6334	5024
	11.5	95	5.5	0.193	0.32	265/255	210/220	3.0	65.2	5574	3796	3.2	0.2x2	71.6	7365	5587
	12.9	120	5.5	0.153	0.253	300/290	235/225	3.1	68.4	6486	4237	3.3	0.2x2	75.8	8530	6284
	14.5	150	5.5	0.124	0.206	340/330	260/255	3.2	72.0	7561	4753	3.4	0.5x2	79.4	9711	6903
	16.0	185	5.5	0.0991	0.164	380/375	300/295	3.3	75.7	8782	5319	3.5	0.5x2	83.3	11885	8422
	18.3	240	5.5	0.0754	0.125	435/435	345/345	3.5	80.8	10675	6182	3.7	0.5x2	88.4	13972	9480
	20.5	300	5.5	0.0601	0.1	485/495	390/390	3.7	86.0	12719	7103	3.9	0.5x2	93.4	16175	10559
	23.5	400	5.5	0.0740	0.0778	555/565	445/450	3.9	93.2	16018	8531	4.2	0.5x2	102.0	19759	12272

The current parameters are expressed as: soil laying/air laying corresponding parameter values. The above data is for reference only.