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## Concentric Conductor Power Cable

### ■ Application

The product is suitable for electric power transmission and distribution network circuit with rated voltage 0.6/1kV and including.

### ■ Product Characteristic

1. It has lower and uniform positive (inverted) sequence and zero sequence impedance, which can improve the quality of electricity supplied.
2. Comparing with the fourth core of common 4-core cable, the reactance value of concentric conductor is much lower than the working condition of zero sequence, which can improve sensitive action of short-circuit auto-protection device and can ensure cable and relative equipment for safe operation.
3. It has strong properties of anti-electromagnetic interference and anti-thunder strike.
4. Five-core cable is suitable for power supply of TN-S and TN-C-X system.



### ■ Type designation and specification

Type		Designation	Number of core	Nominal Cross-section mm <sup>2</sup>
Copper conductor	Aluminum conductor			
VV-T YJV-T	VV-T YJV-T	Copper(Al)core PVC (XLPE) insulated and sheathed round(flat)concentric power cable	3+1 (T) 4+1 (T)	4~300
VV22-T YJV22-T	VLV22-T YJLV22-T	Copper(Al)core PVC (XLPE) insulated and sheathed steel tape armored round(flat)concentric power cable		
VV32-T YJV32-T	VLV32-T YJLV32-T	Copper(Al)core PVC (XLPE) insulated and sheathed fine steel wire round(flat)concentric power cable		
VV42-T YJV42-T	VLV42-T YJLV42-T	Copper(Al)core PVC (XLPE) insulated and sheathed thick steel wire round(flat)concentric power cable		

Note: Include flame-retardant and fire-resistant type.

### ■ Schematic figuration of structure

1. Conductor
2. Insulation
3. Filler
4. Wrapped tape
5. Inner separator
6. Outer conductor
7. Wrapped tape
8. Outer sheath

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**■ Technical parameter**

1. D.C. resistance of conductor is referenced to the cable with PVC insulation and sheath.
2. The finished cable shall be subjected to A.C. voltage of 50Hz 3500V 5min and result should not be breakdown.  
 As far as single core is concerned, it should make voltage resistant test after immersing water.
3. DC resistance value at 20°C.

Nominal cross sectional mm <sup>2</sup>	Ω /km at 20°C		Ω /km of each sequence	
	Copper core	Aluminum core	Positive (negative)	Zoro sequence
4	4.564	7.336	0.0989	0.1479
6	3.049	4.564	0.0937	0.1380
10	1.812	3.049	0.0843	0.1320
16	1.139	1.891	0.0799	0.1236
25	0.7200	1.188	0.0791	0.1194
35	0.5190	0.8590	0.0758	0.1176
50	0.3830	0.6350	0.0755	0.1146
70	0.2650	0.4390	0.0733	0.1125
95	0.1920	0.3180	0.0730	0.1098
120	0.1520	0.2520	0.0716	0.1081
150	0.1230	0.2050	0.0714	0.1041
185	0.0985	0.1630	0.0713	0.1022
240	0.0750	0.1240	0.0711	0.0951
300	0.0597	0.0994	0.0708	0.0888

Note: Electrical resistance is similar for copper core cable with equal or different cross-section

**■ Delivery length**

Delivery length of single piece is not less than 100m, short section with length not less than 20m, is permitted, but the quantity shall not exceed in ±10% of total quantity.

Any length of cable can be delivered as per mutual agreement.

The tolerance of length shall not exceed in ±0. 5%.

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