



## 0.6/1kV PVC Insulated Power Cables

### 1. Standard:

0.6/1kV PVC Insulated Power Cables conform to the Standard GB/T12706.1-2008. And the same time is also manufactured according to the standard of IEC, English, Germany and America.

### 2. Installation and operation condition of cable

In the air:The distance between cable centers of singal-core cables laid in parallel:  
 cross-sectional area of conductor $\leq 185\text{mm}^2$ : 2 times of the cable diameter  
 cross-sectional area of conductor $\geq 240\text{mm}^2$ :90mm

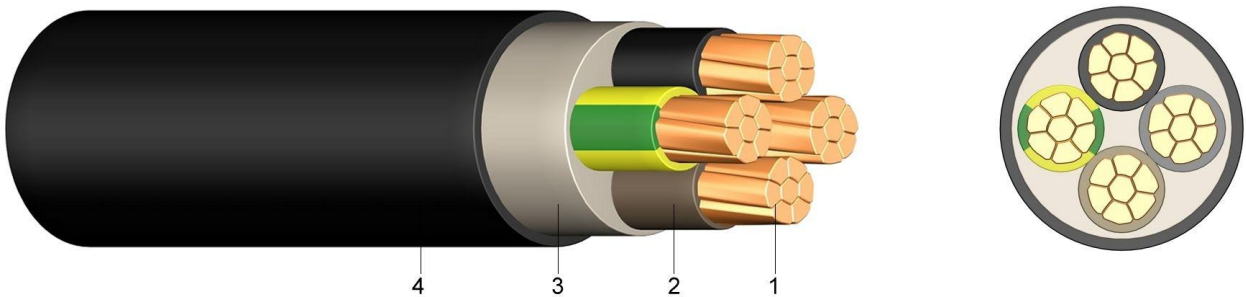
Directly in the ground:The single-core cables are installed separately, the distance between the cable center is 2 times of the cable diameter.

Soil temperature: $25^{\circ}\text{C}$

Max. Continous operating temperature of conductor: $90^{\circ}\text{C}$

Thermal resistivity of soil: $1.0^{\circ}\text{C}\cdot\text{m}/\text{W}$

Depth of direct-buried: $0.7\text{m}$



1. Aluminum/copper conductor 2. PVC insulation 3.Filler 4.Over sheath

#### 4. Type and designation

Type	Name	Application
VV	Copper conductor, PVC insulated, PVC sheathed electrical cable	For laying indoors, in tunnel or cable trench, unable to bear external mechanical forces. Single core cable in magnetic duct is not permissible.
VLV	Aluminum conductor, PVC insulated, PVC sheathed electrical cable	
VY	Copper conductor, PVC insulated, PE sheathed electrical cable	
VLY	Aluminum conductor, PVC insulated, PE sheathed electrical cable	
VV22	Copper conductor, PVC insulated, steel tape armoured, PVC sheathed electrical cable	For laying indoors, in tunnel, in cable trench or direct buried, able to bear external mechanical forces, but unable to bear large pulling force.
VLV22	Aluminum conductor, PVC insulated, steel tape armoured, PVC sheathed electrical cable	
VV23	Copper conductor, PVC insulated, steel tape armoured, PE sheathed electrical cable	
VLV23	Aluminum conductor, PVC insulated, steel tape armoured, PE sheathed electrical cable	
VV32	Copper conductor, PVC insulated, fine steel wire armoured, PVC sheathed electrical cable	For laying indoors, in tunnel, in cable trench, well or direct buried, able to bear external mechanical forces and determinate pulling force.
VLV32	Aluminum conductor, PVC insulated, fine steel wire armoured, PVC sheathed electrical cable	
VV33	Copper conductor, PVC insulated, fine steel wire armoured, PE sheathed electrical cable	
VLV33	Aluminum conductor, PVC insulated, fine steel wire armoured, PE sheathed electrical cable	

#### 5. Production range of cable

Type		Cores	Nominal cross-sectional areas/mm <sup>2</sup>
Copper conductor	Aluminum conductor		
VV VY ---	----	1	1.5-800
VV22 VV23	VLV VLY VLV22 VLV23		2.5-800
			10-800
VV VY ---	----	2	1.5-300
VV22 VV23	VLV VLY ---		2.5-300
	VLV22 VLV23		4.0-300
VV32 VV33	VLV32 VLV33		10-300



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VV VY ---- VV22 VV23 ---- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	3	1.5-400 2.5-400 4.0-400 4.0-400 10-400
VV VY --- VV22 VV23 --- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	4	1.5-400 2.5-400 4.0-400 4.0-400 10-400
VV VY --- VV22 VV23 --- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	3+1	1.5-400 4.0-400 4.0-400 4.0-400 10-400
VV VY --- VV22 VV23 --- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	5	1.5-400 2.5-400 4.0-400 4.0-400 10-400
VV VY --- VV22 VV23 --- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	4+1	1.5-400 4.0-400 4.0-400 4.0-400 10-400
VV VY --- VV22 VV23 --- VV32 VV33	---- VLV VLY ---- VLV22 VLV23 VLV32 VLV33	3+2	1.5-400 4.0-400 4.0-400 4.0-400 10-400

The armoured single-core cables are used for D.C. System only. As for A.C. System, nonmagnetic armour material should be used, or magnetic isolation should be applied.