

0.6/1kV PVC Insulated Power Cable (Chinese standard)



Application: PVC insulated power cable is suitable for power supply and distribution circuits in manufacturing and processing plant, commercial building or residence at the rated voltage 0.6/1kV or less. The power cables can be flame retardant when used as type ZR.



Installation Temperature: The installation temperature should be over 0°C. If the ambient temperature is lower than 0°C, the cable should be preheated.

Operating Temperature: Max permissible continuous operating temperature of conductor shall not exceed 70°C.

Conductor Short-circuit Temperature: Max temperature at short-circuit shall not exceed 160°C. The short-circuit duration shall not exceed 5 seconds.



Bending Radius: $20(d+D)\pm 5\%$ for single core cable, $15(d+D)\pm 5\%$ for multi-core cable

D = Actual outer diameter of cable (mm), d = Actual diameter of the conductor (mm)



Standard : GB/T 12706, IEC 60502 or other standards required by customers.

The requirement for flame retardant property is according to IEC 60332-3 and GB/T 18380.



Packing: Steel/wooden reel, wooden reel or steel reel.



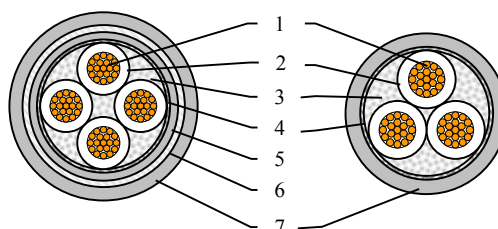
Type, Description and Application

Type	Description	Application
VV VLV	Cu or Al conductor PVC insulated PVC sheathed power cable	It is installed in indoor, in duct or in tunnel, but unable to bear pulling force and pressure.
VV ₂₂ VLV ₂₂	Cu or Al conductor PVC insulated steel tape armoured PVC sheathed power cable	It is installed in indoor, in tunnel or directly in ground, able to bear proper pressure.
VV ₃₂ VLV ₃₂	Cu or Al conductor PVC insulated steel wire armoured PVC sheathed power cable	It is installed in indoor, in well, under water, able to bear proper pulling force.
ZR-VV ZR-VLV	Cu or Al conductor PVC insulated PVC sheathed flame retardant power cable	It is installed in indoor, in duct or in tunnel, but unable to bear pulling force and pressure.
ZR-VV ₂₂ ZR-VLV ₂₂	Cu or Al conductor PVC insulated steel tape armoured PVC sheathed flame retardant power cable	It is installed in indoor, in tunnel or directly in ground, able to bear proper pressure.
ZR-VV ₃₂ ZR-VLV ₃₂	Cu or Al conductor PVC insulated steel wire armoured PVC sheathed flame retardant power cable	It is installed in indoor, in well or under water, able to bear proper pulling force.

* L: Aluminium conductor

Construction of 0.6/1kV PVC Insulated Power Cable

No	Construction and materials
1	Copper or aluminium conductor
2	PVC insulation
3	PP yarn or glass fiber rope filler
4	Non-woven cloth tape or glass fiber tape
5	Non-flame retardant or flame retardant PVC bedding
6	Steel tape or steel wire armour
7	Non-flame retardant or flame retardant PVC outsheath



Supply Range

Type	No of Cores	Nominal Area of Conductor sq.mm	
		Cu	Al
VV, VLV, ZR-VV, ZR-VLV	1	1.5 to 630	1.5 to 630
	2	1.5 to 185	1.5 to 185
	3	1.5 to 300	1.5 to 300
	4	2.5 to 300	2.5 to 300
VV ₂₂ , VLV ₂₂ , ZR-VV ₂₂ , ZR-VLV ₂₂ VV ₃₂ , VLV ₃₂ , ZR-VV ₃₂ , ZR-VLV ₃₂	2	4 to 185	4 to 185
	3, 4	4 to 300	4 to 300

*PVC cable with 3+1 cores, 5 cores, 4+1 cores, 3+2 cores are also in our supply range.

PVC Insulated PVC Sheathed Power Cable

Type VV, VLV, ZR-VV, ZR-VLV

1-core			2-core		
Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter	Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter
sq. mm	mm	mm	sq. mm	mm	mm
1×1.5	0.8	6.1	2×1.5	0.8	10.5
1×2.5	0.8	6.5	2×2.5	0.8	11.3
1×4	1.0	7.4	2×4	1.0	13.1
1×6	1.0	7.9	2×6	1.0	14.1
1×10	1.0	9.2	2×10	1.0	16.7
1×16	1.0	10.3	2×16	1.0	18.8
1×25	1.2	12.0	2×25	1.2	22.2
1×35	1.2	13.2	2×35	1.2	24.5
1×50	1.4	14.9	2×50	1.4	21.8
1×70	1.4	16.7	2×70	1.4	24.7
1×95	1.6	19.3	2×95	1.6	29.2
1×120	1.6	20.9	2×120	1.6	31.3
1×150	1.8	23.1	2×150	1.8	34.7
1×185	2.0	25.6	2×185	2.0	37.9
1×240	2.2	28.8	---	---	---
1×300	2.4	31.9	---	---	---
1×400	2.6	35.5	---	---	---
1×500	2.8	39.7	---	---	---
1×630	2.8	43.7	---	---	---

PVC Insulated PVC Sheathed Power Cable

Type VV, VLV, ZR-VV, ZR-VLV

3-core			4-core		
Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter	Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter
sq.mm	mm	mm	sq.mm	mm	mm
3×1.5	0.8	10.9	---	---	---
3×2.5	0.8	11.8	4×2.5	0.8	12.7
3×4	1.0	13.7	4×4	1.0	14.9
3×6	1.0	14.8	4×6	1.0	16.1
3×10	1.0	17.6	4×10	1.0	19.2
3×16	1.0	19.9	4×16	1.0	21.7
3×25	1.2	23.6	4×25	1.2	25.9
3×35	1.2	26.1	4×35	1.2	28.7
3×50	1.4	26.5	4×50	1.4	30.4
3×70	1.4	28.8	4×70	1.4	33.9
3×95	1.6	33.6	4×95	1.6	39.7
3×120	1.6	37.1	4×120	1.6	44.2
3×150	1.8	41.9	4×150	1.8	48.7
3×185	2.0	45.9	4×185	2.0	53.5
3×240	2.2	51.8	4×240	2.2	55.4
3×300	2.4	55.3	4×300	2.4	60.2

PVC Insulated Steel Tape Armoured PVC Sheathed Power Cable

Type VV₂₂, VLV₂₂, ZR-VV₂₂, ZR-VLV₂₂

2-core			3-core			4-core		
Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter	Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter	Nominal Area of Conductor	Nominal Insulation Thickness	Approx. Overall Diameter
sq. mm	mm	mm	sq. mm	mm	mm	sq. mm	mm	mm
2×4	1.0	13.1	3×4	1.0	17.3	4×4	1.0	18.5
2×6	1.0	14.1	3×6	1.0	18.4	4×6	1.0	19.7
2×10	1.0	16.7	3×10	1.0	21.2	4×10	1.0	22.8
2×16	1.0	18.8	3×16	1.0	23.5	4×16	1.0	25.3
2×25	1.2	22.2	3×25	1.2	27.2	4×25	1.2	30.5
2×35	1.2	24.5	3×35	1.2	30.7	4×35	1.2	33.5
2×50	1.4	21.8	3×50	1.4	31.3	4×50	1.4	35.2
2×70	1.4	24.7	3×70	1.4	33.6	4×70	1.4	38.7
2×95	1.6	29.2	3×95	1.6	38.3	4×95	1.6	44.7
2×120	1.6	31.3	3×120	1.6	41.9	4×120	1.6	49.4
2×150	1.8	34.7	3×150	1.8	47.1	4×150	1.8	53.7
2×185	2.0	39.2	3×185	2.0	50.9	4×185	2.0	58.9
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---	---	---	3×300	2.4	61.1	4×300	2.4	66.2

PVC Insulated Steel Wire Armoured PVC Sheathed Power Cable

Type VV₃₂, VLV₃₂, ZR-VV₃₂, ZR-VLV₃₂

2-core			3-core			4-core		
Nominal Area of Conductor sq. mm	Nominal Insulation Thickness mm	Approx. Overall Diameter mm	Nominal Area of Conductor sq. mm	Nominal Insulation Thickness mm	Approx. Overall Diameter mm	Nominal Area of Conductor sq. mm	Nominal Insulation Thickness mm	Approx. Overall Diameter mm
2×4	1.0	18.7	3×4	1.0	19.3	4×4	1.0	20.1
2×6	1.0	19.9	3×6	1.0	20.6	4×6	1.0	21.7
2×10	1.0	22.3	3×10	1.0	22.1	4×10	1.0	25.6
2×16	1.0	25.2	3×16	1.0	26.3	4×16	1.0	28.1
2×25	1.2	28.8	3×25	1.2	30.2	4×25	1.2	32.7
2×35	1.2	31.1	3×35	1.2	32.7	4×35	1.2	35.7
2×50	1.4	28.6	3×50	1.4	33.3	4×50	1.4	37.2
2×70	1.4	31.5	3×70	1.4	35.6	4×70	1.4	41.9
2×95	1.6	36.2	3×95	1.6	41.5	4×95	1.6	47.9
2×120	1.6	38.3	3×120	1.6	45.1	4×120	1.6	53.9
2×150	1.8	42.9	3×150	1.8	51.6	4×150	1.8	58.4
2×185	2.0	48.0	3×185	2.0	55.6	4×185	2.0	63.6
---	---	---	3×240	2.2	61.7	4×240	2.2	65.7
---	---	---	3×300	2.4	65.8	4×300	2.4	70.7