

JINSHUI WIRE & CABLE GROUP ZHENGZHOU JINSHUI INDUSTRY & COMMERCE CO.,LTD.



PVC INSULATED WIRE

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PVC INSULATED WIRE

1.Range of Application

This product is fit A.C rated voltage 450/750V

2.Service Conditions

BV-105model not more than 105℃.Others not more than75℃ installation temperature not lower than 0 ℃.

3.Model and Name:see table 1

Table1

Model	Name
BV	Copper Core PVC Insulation Wire
BLV	Aluminium Core PVC Insulation Wire
BVR	Copper Core PVC Insulation Flexible Wire
BVV	Copper Core PVC Insulation PVC Sheath Round Wire
BVVB	Copper Core PVC Insulation PVC Sheath Flat Wire
BLVVB	Aluminium Core PVC Insulation PVC Sheath Flat Wire
BV-90	Copper Core Heat-resistance 105℃ PVC Insulation

4.Specification,Size and Technical Data (see table 2~6)

BV 300/500V

Table2

Nominal Section (mm ²)	No./Dia. of Core of Core (mm)	Max , O.D (mm)	Reference Weight (kg/km)	Conductor Resistance at 20℃ ≤ (Ω /km)
0.5	1/0.80	2.4	8.5	36.0
0.75 (A)	1/0.97	2.6	11.1	24.5
0.75 (B)	7/0.37	2.8	12.0	24.5
1.0 (A)	1/1.13	2.8	13.9	18.1
1.0 (B)	7/0.43	3.0	15.0	18.1

BV BLV (BV-90) 450/750V

Table3

Nominal Section (mm ²)	No/Dia.of Core (mm)	Max , O.D (mm)	Reference Weight (kg/km)		Conductor Resistance at 20℃≤(Ω /km)	
			Copper	Aluminium	Aluminium	Copper
1.5 (A)	1/1.38	3.3	20.3			12.1
1.5 (B)	7/0.52	3.5	21.6			12.1
2.5 (A)	1/1.78	3.9	31.6	17	11.80	7.41
2.5 (B)	7/0.68	4.2	34.8			7.41
4 (A)	1/2.55	4.4	47.1	22	7.39	4.61
4 (B)	7/0.85	4.8	50.3			



BV BLV (BV-90) 450/750V

Table3

Nominal Section (mm ²)	Conductor No./Dia (mm)	Max.Outer Dia (mm)	Reference Weight (kg/km)		Conductor Resistance at 20℃≤(Ω /km)	
			Copper	Aluminium	Aluminium	Copper
6 (A)	7/0.85	4.8	50.3	29	4.91	3.08
6 (B)	7/1.04	5.4	71.2			3.08
10	7/1.35	7.0	119	62	3.08	1.83
16	7/1.70	8.0	179	78	1.91	1.15
25	27/2.04	10.0	281	118	1.20	0.727
35	27/2.52	11.5	381	156	0.868	0.524
50	19/1.78	13.0	521	215	0.641	0.387
70	19/2.14	15.0	734	282	0.443	0.268
95	19/2.52	17.5	962	385	0.320	0.193
120	37/2.03	19.0	1180	431	0.253	0.153
150	37/2.25	21.0	1470	539	0.206	0.124
185	37/2.52	23.5	1810	666	0.164	0.0991
240	61/2.25	26.5	2350	857	0.125	0.0754
300	61/2.52	29.5	2930	1070	0.100	0.0601
400	61/2.85	33.0	3870	1390	0.0778	0.0470

BVVB, BLVVB 300/500V

Table4

Nominal Section (mm ²)	Structure of Cores Core x No./Dia (mm)	Max. Outer Dia. (mm ²)		Reference (kg/km)		Conductor Resistance 20℃ ≤ (Ω /km)	
		Aluminium	Copper	Copper	Aluminium	Copper	Aluminium
2×0.75	2×1/0.97		4.6×7.0	43.7	24.5		
2×1.0	2×1/1.13		4.8×7.4	51.0	18.1		
2×1.5	2×1/1.38		5.4×8.4	65.9	12.1		
2×2.5	2×1/1.78	6.2×9.8	6.2×9.8	95.7	64.9	7.41	11.8
2×4	2×7/0.85	6.8×11.0	7.2×11.5	146.0	80.7	4.61	7.39
2×6	2×7/1.04	7.4×12.0	8.0×13.0	200.0	104	3.08	4.91
2×10	2×7/1.35	9.6×16.0	9.6×16.0	323.0	177	1.83	3.08
3×0.75	3×1/0.97		4.6×9.4	62.6		24.50	
3×1.0	3×1/1.13		4.8×9.8	74.3		18.10	
3×1.5	3×1/1.38		5.4×11.5	95.6		12.10	
3×2.5	3×1/1.78	6.2×13.5	6.2×13.5	140	93.9	7.41	11.8
3×4	3×7/0.85	7.0×15.0	7.4×16.5	220	123	7.41	7.39
3×6	3×7/1.04	7.4×17.0	8.0×18.0	295	153	4.61	4.91
3×10	3×7/1.35	9.6×22.5	9.6×22.5	485	261	1.83	3.08

PVC INSULATED WIRE

BVV 450/750V

Table5

Nominal Section (mm ²)	Structure of Cores Core×No./Dia (mm)	Max. Outer Dia (mm)	Reference Weight (kg/km)
1×0.75	1×1/0.97	4.3	23
1×1.0	1×1/1.13	4.5	26.4
1×1.5(A)	1×1/1.38	4.9	34.6
1×1.5(B)	1×7/0.52	5.2	36.5
1×2.5(A)	1×1/1.78	5.8	46.4
1×4(A)	1×1/2.25	6.4	65.9
1×4(B)	1×7//0.85	6.8	73.7
1×6(A)	1×1/2.76	7.0	91.6
1×10	1×7/1.35	8.8	152.0
2×1.5(A)	2×1/1.38	9.8	109
2×1.5(B)	2×7/0.52	10.5	123
2×2.5(A)	2×1/1.78	11.5	157
2×2.5(B)	2×7/0.68	12.0	172
2×4(A)	2×1/2.25	12.5	205
2×4(B)	2×7/0.85	13.0	222
2×6(A)	2×1/2.76	13.5	265
2×6(B)	2×7/1.04	14.5	286
2×10	2×7/1.35	18.0	471
3×1.5(A)	3×1/1.38	10.5	136
3×1.5(B)	3×7/0.52	11.0	146
3×2.5(A)	3×1/1.78	12.0	190
3×2.5(B)	3×7/0.68	12.5	207
3×4(A)	3×1/2.25	13.0	252
3×4(B)	3×7/0.85	14.0	272
3×6(A)	3×1/2.76	14.5	344
3×10	3×7/1.35	19.0	574
4×1.5(A)	4×1/1.38	11.5	164
4×1.5(B)	4×7/0.52	12.0	174
4×2.5(B)	4×7/0.68	13.5	252
4×4(A)	4×1/2.25	14.5	321
4×4(B)	4×7/0.85	15.5	346
4×6(A)	4×1/2.76	14.5	470
4×6(B)	4×7/1.04	15.5	439
5×1.5(A)	5×1/1.38	12.0	192
5×1.5(B)	5×7/0.52	12.5	205
5×2.5(A)	5×1/1.78	14.0	272
5×2.5(B)	5×7/0.68	14.5	292
5×4(A)	5×1/2.25	16.0	379
5×4(B)	5×7/0.85	17.0	418
5×6(A)	5×1/2.76	17.5	518
5×6(B)	5×7/1.04	18.5	550

BVR 450/750V

Table6

Nominal Section (mm ²)	Conductor No./Dia (mm)	Max. Outer Dia. (mm ²)	Reference Weight (kg/km)	Conductor Resistance at 20℃ ≤ (Ω/km)
2.5	19/0.41	4.2	34.7	7.41
4	19/0.52	4.8	51.4	4.61
6	19/0.64	5.6	73.6	3.08
10	49/0.52	7.6	129	1.83
16	49/0.64	8.8	186	1.15
25	98/0.58	11.0	306	0.727
35	133/0.58	12.5	403	0.524
50	133/0.68	14.5	553	0.387
70	189/0.68	16.5	764	0.268

5.Technical Performance

- 1) The insulated cores and wires are good to pass the AV tests in Table 7 after being put into water at the temperature of 20±5℃ for an hour. line are put into the water at the temperature 20±5℃ for an hour. They should be able to experience the AC voltage testing.
- 2) Outer power line is good at insulation property.mechines property and non-inflammabilty with reliable quality attend convenient durability.The wires have good electrical insulation, mechanical and non-extersible property with hish releability and durability.
- 3) Finished wire should have wire,model and voltage signs.The wires should have secutive marks of manufacturers' names,types of cables and rated voltage on the insulation or out sheath.

Table7

Test Name	Test Item		Test Value	
			Rated Voltage of Wire	
Voltage Test for Insulated Core	Test Voltage Based on Insulation Thickness	0.6mm and below	300/500V	450/750W
		over 0.6mm	1500	
	Voltage bring to bear on time not less than		2000	
			5 hours	
Voltage Test for Wire	Testing voltage		2000	
	Duration of voltage applied (min)		5	

PVC INSULATION FLEXIBLE WIRE (GB5023.3-97)

1.Range of Application

This product is fit for AC rated voltage 450/750V and below of domestic electrical appliances.of smaller size motorized tools.of instruments.of various meters and motorized lighting installations.

2.Service Conditions

Working temperature: Not more than 105℃ for RV-105 model.The other no more than 70℃.

3.Model and Name:see table 1

Model	Name
RV	Copper Core PVC Insulation Flexible Wire
RVB	Copper Core PVC Insulation Flat Flexible Wire
RVS	Copper Core PVC Insulation Twisted Flexible Wire
RVV	Copper Core PVC Insulation Sheath Round Flexible Wire
RVVB	Copper Core PVC Insulation Sheath Flat Flexible Wire
RV-90	Copper Core Heat-resistak Losc PVC Flexible Wire

4.Specification Size and Technical Data: see table 2 to 8

RV 300/500V			
Nominal Section (mm²)	Core Structure No./Dia. (mm)	Max Dia. (mm)	Reference Weight (kg/km)
0.3	16/0.15	2.3	6.4
0.4	23/0.15	2.5	8.1
0.5	16/0.2	2.6	9.1
0.75	24/0.2	2.8	12.2
1.0	32/0.2	3.0	15.1

RV 450/750V			
Nominal Section (mm²)	Core Structure No./Dia (mm)	Max Dia. (mm)	Reference Weight (kg/km)
1.5	30/0.25	3.5	21.4
2.5	49/0.25	4.2	24.5
4	56/0.20	4.8	51.8
6	84/0.30	6.4	74.1
10	84/0.30	8.0	12.4



RVB 300/300V			
Nominal Section(mm²)	Core Structure No./Dia.(mm)	Max Dia.(mm)	Reference Weight(kg/km)
2×0.3	2×16/0.15	3.5	21.4
2×0.4	2×23/0.15	4.2	24.5
2×0.5	2×28/0.15	4.8	51.8
2×0.75	2×42/0.15	6.4	74.1
2×1.0	2×32/0.20	8.0	12.4

RVB 300/300V			
Nominal Section(mm²)	Core Structure No./Dia.(mm)	Max Dia.(mm)	Reference Weight(kg/km)
2×0.3	2×16/0.15	4.3	12.8
2×0.4	2×23/0.15	4.6	16.2
2×0.5	2×28/0.15	5.8	22.9
2×0.75	2×42/0.15	6.2	29.6

RVVB 300/500V			
Nominal Section(mm²)	Core Structure No./Dia.(mm)	Max Dia(mm)	Reference Weight(kg/km)
2×0.75	2×24/0.20	7.6	50
2×1.0	2×32/0.20	7.8	57.8
2×1.5	2×30/0.25	8.8	74.7
2×2.5	2×49/0.25	11.0	120
3×0.75	3×24/0.20	8.0	63.1
3×1.0	3×32/0.20	8.4	74.0
3×1.5	3×30/0.25	9.6	102.0
3×2.5	3×49/0.25	11.5	162.0
4×0.75	4×24/0.20	8.6	78.5
4×1.0	4×32/0.20	9.2	97.2
4×1.5	4×30/0.25	11.0	133.0
4×2.5	4×49/0.25	12.5	204.0
5×0.75	5×24/0.20	9.4	96.9
5×1.0	5×32/0.20	11.0	115
5×1.5	5×30/0.25	12.0	158
5×2.5	5×49/0.25	14.0	249

RVVB300/300V			
Nominal Section(mm²)	Core Structure No./Dia.(mm)	Max Dia.(mm)	Reference Weight(kg/km)
2×0.5	2×16/0.2	3.8×6.0	27.7
2×0.75	2×24/0.2	3.9×6.4	34.5

PVC INSULATION FLEXIBLE WIRE (GB5023.3-97)

RV-105 450/750V

Table8

Nominal Section(mm²)	Core Structure No./Dia.(mm)	Max Dia.(mm)	Reference Weight(kg/km)
0.5	16/0.2	2.4	10.2
0.75	24/0.2	3.0	13.5
1.0	32/0.2	3.2	16.4
1.5	30/0.25	3.5	21.4
2.5	49/0.25	4.2	34.5
4	56/0.30	4.8	51.8
6	84/0.30	6.4	74.1

5. Technical Performance

- 1) If the insulated conductors and complete wires are put into the water at 20±5℃ for an hour, they are able to pass the Water Immersion AC Voltage Test as stated in Table 9.
- 2) The PVC Insulation Wire has excellent electrical insulation performance and mechanical performance and non-inflammability, so it is safe and convenient to use. The manufacturer's name, the model and the voltage grade should be clearly and consecutively printed on the surface of the the complete wires.

Table9

Testing Name	Testing Item		Testing Value	
			Rated Voltage of Wire	
			300/500V	450/750V
Finished insulated wire voltage testing	Testing voltage:in accordance with insulation thickness	0.6mm and below	1500	
		Over 0.6mm	2000	
	Voltage bring to bear on time not less than		5	
Finished wire voltage testing	Testing Voltage		2000	2000
	Voltage bring to bear on time not less than		5	5

PVC INSULATION SHIELDED WIRE (GB5023.5-97)

1.Range of Application

1.This product is fit for A.C rated voltage 300/300V electric appliances.instruments and meters.electro-equipments and antomatic installations standard for this product is based on the standard made by international electric commission IEC 227 (1979) and is exactly the same.

2.Type and Name:see table 1-6

Type	Name
AVP	Copper Core PVC Insulation Shielded Wire
AVP-105	Heat-resistant 105℃ PVC Insulation Shielded Wire
RVP	PVC Insulation Shielded Flexible Wire
RVP-105	Heat-resistant 105℃ PVC Insulation Shielded Flexible Wire
RVVP	PVC Insulation Shielded PVC Sheath Flexible Wire
RVVP1	PVC Insulation Entangled PVC Sheath Flexible Wire

AVP、AVP-105 300/300V

Table2

Nominal Section (mm²)	No.of Cores/Dia. (mm)	Max.Dia. (mm)	Reference Weight (kg/km)	Conductor Resistance at≤20℃ (Ω /km)
0.20	1/0.50	2.0	7.3	92.3
0.30	1/0.60	2.1	8.8	64.1
0.40	1/0.70	2.2	10.0	47.1

RVP、RVP-105 300/300V

Table3

Nominal Section (mm²)	No.of Cores/Dia. (mm)	Max Dia. (mm)	Reference Weight (kg/km)	Conductor Resistance at≤20℃ (Ω /km)
0.20	12/0.15	2.1	8.3	92.3
0.30	16/0.15	2.4	10.5	69.2
0.40	23/0.15	2.8	15.9	48.2
0.50	16/0.20	2.9	16.8	39.0
0.75	24/0.20	3.1	20.9	26.0
1.0	32/0.20	3.5	26.5	19.5
1.5	30/0.25	3.9	32.4	13.3
2.5	49/0.25	4.5	48.2	7.98

RVP,RVP-105 300/300V 2-core Ellipse Model

Table4

Nominal Section (mm²)	No.of Cores/Dia. (mm)	Max Dia. (mm)	Reference Weight (kg/km)	Conductor Resistance at≤20℃ (Ω /km)
2×0.20	2×12/0.15	2.4×4.0	14.7	92.3
2×0.30	2×16/0.15	2.7×4.8	19.7	69.2
2×0.40	2×23/0.15	3.1×5.2	28.1	48.2
2×0.50	2×16/0.20	3.2×5.4	29.9	39.0
2×0.75	2×24/0.20	3.4×5.8	37.5	26.0
2×1.00	2×32/0.20	3.8×6.6	48.6	19.5
2×1.50	2×30/0.25	4.2×7.2	59.9	13.3

PVC INSULATION SHIELDED WIRE (GB5023.5-97)

RVVP,RVVP,300/300V 2-Core

Table5

Nominal Section (mm²)	No.of Cores/Dia. (mm)	Max Dia. (mm)	Reference Weight (kg/km)	Conductor Resistance at≤20℃ (Ω /km)
2×0.20	2×12/0.15	5.4	33.2	92.3
2×0.30	2×16/0.15	6.2	49.3	69.2
2×0.40	2×23/0.15	6.6	57.0	48.2
2×0.50	2×16/0.20	6.8	59.2	39.0
2×0.75	2×24/0.20	7.2	70.7	26.0
2×1.00	2×32/0.20	8.0	86.7	19.5
2×1.50	2×30/0.25	9.0	110.4	13.3

RVVP,RVVP,300/300V 3-Core

Table6

Nominal Section (mm²)	No.of Cores/Dia. (mm)	Max Dia. (mm)	Reference Weight (kg/km)	Conductor Resistance at≤20℃ (Ω /km)
3×0.20	3×12/0.15	6.0	38.6	92.3
3×0.30	3×16/0.15	6.6	48.6	69.2
3×0.40	3×23/0.15	6.8	56.7	48.2
3×0.50	3×16/0.20	7.0	60.7	39.0
3×0.75	3×24/0.20	7.6	73.6	26.0
3×1.0	3×32/0.20	8.8	100	19.5
3×1.5	3×30/0.25	9.8	131	13.3
4×0.20	4×12/0.15	6.2	45.9	92.3
4×0.30	4×16/0.15	7.0	57.5	69.2
4×0.40	4×23/0.15	7.4	67.9	48.2
5×0.20	5×12/0.15	6.6	52.7	92.3
5×0.30	5×16/0.15	7.6	66.6	69.2
5×0.40	5×23/0.15	8.0	78.8	48.2
6×0.20	6×12/0.15	7.2	59.6	92.3
6×0.30	6×16/0.15	8.0	76.6	69.2
6×0.40	6×23/0.15	9.0	98.3	48.2
7×0.20	7×12/0.15	7.2	64.2	92.3
7×0.30	7×16/0.15	8.0	82.3	69.2
7×0.40	7×23/0.15	9.0	106.0	48.2
10×0.20	10×12/0.15	9.0	94.3	92.3
10×0.30	10×16/0.15	10.5	132.0	69.2
10×0.40	10×23/0.15	11.5	157.0	48.2
12×0.20	12×12/0.15	9.2	105	92.3
12×0.30	12×16/0.15	11.0	147	69.2
12×0.40	12×23/0.15	11.5	175	48.2

DELIVERY REQUIREMENTS

- 1.The length of cables should be in accordance with mutual agreements.
- 2.Cables delivery should be coiled orderly Cable tip should be Closely wrapped and sealed.Exposed cable tip for AC testing should be long enough to meet the needs.The coiled cable must be in the same model and the same specification.
- 3.If there is no agreement,the requirements can be in accordance with the contents of following table.

Cable Name	Delivery Length (M)		Ratio of Short Section to Delivery Length	Tolerance
	Standard	Short Section		
PVC Insulated Wire	100	10	10%	±0.5%
Rubber Insulation Fixed Laying Wire at 300/500V Rated Voltage	100	20	10%	
PVC Insulation Flexible Wire	100	10	10%	
PVC Insulation Shielded Wire	100	10	10%	

