

通用塑料绝缘电线

General plastic insulated wire



p135 聚氯乙烯绝缘电线(JB/T8734-2016)(GB/T5023-2008)
PVC Insulated Wire (JB/T8734-2016)(GB/T5023-2008)

p140 聚氯乙烯绝缘软电线(GB/T5023-2008)
PVC Insulation Flexible Wire (GB/T5023-2008)

p143 聚氯乙烯绝缘屏蔽电线(JB/T8734-2016)
PVC Insulation Shielded Wire (JB/T8734-2016)

p147 70年长寿命建筑用电线 (JG/T441-2014)
70 years of long life building wires

p149 交联聚烯烃绝缘电线
XLPE insulated wire

聚氯乙烯绝缘电线(JB/T8734-2016)(GB/T5023-2008) PVC Insulated Wire (JB/8734-2016)(GB/T5023-2008)

1 用途 Application

本产品适用于交流额定电压450/750V及以下的动力装置的固定敷设。
This product is fit for ac rated voltage 450/750V.

2 工作温度 Working temperature

BV-105型不超过105℃，其它不超过75℃，敷设温度不低于0℃。
BV-105 model not more than 105℃, others not more than 75℃ installation temperature not lower than 0℃.

3 型号、名称 (见表1) Model and name (see table 1)

表1 Table 1	
型号Model	名称Name
BV	铜芯聚氯乙烯绝缘电线 Copper core PVC insulation power line
BLV	铝芯聚氯乙烯绝缘电线 Aluminium core PVC insulation power line
BVR	铜芯聚氯乙烯绝缘软电线 Copper core PVC insulation flexible power line
BVV	铜芯聚氯乙烯绝缘聚氯乙烯护套圆形电线 Copper core PVC insulation PVC sheath round power line
BVVB	铜芯聚氯乙烯绝缘聚氯乙烯护套平行电线 Copper core PVC insulation PVC sheath parellei power line
BLVVB	铝芯聚氯乙烯绝缘聚氯乙烯护套平行电线 Aluminium core PVC insulation PVC sheath parellei power line
BV-105	铜芯耐热105℃聚氯乙烯绝缘电线 Copper core heat-resistance 105℃ PVC insulation

4 规格尺寸及技术参数 (见表2-6) Specification size and technological data (see table 2-6)

BV 300/500V

表2 Table 2				
标称截面 Nominal section (mm ²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm ²)	参考重量 Reference weight (kg/km)	20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)
0.5	1/0.80	2.3	8.5	36.0
0.75(A)	1/0.97	2.5	11.1	24.5
0.75(B)	7/0.37	2.6	12.0	24.5
1.0(A)	1/1.13	2.7	13.9	18.1
1.0(B)	7/0.43	2.8	15.0	18.1

BV BLV(BV-105) 450/750V

表3 Table 3						
标称截面 Nominal section (mm ²)	线芯结构根数/线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm ²)	参考重量 Reference weight (kg/km)		20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)	
			铜copper	铝aluminium	铝aluminium	铜copper
1.5(A)	1/1.38	3.2	20.3			12.1
1.5(B)	7/0.52	3.3	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	4.0	34.8			7.41
4(A)	1/2.55	4.4	47.1	22	7.39	4.61
4(B)	7/0.85	4.6	50.3			

BV BLV(BV-105) 450/750V

表3 Table 3						
标称截面 Nominal section (mm²)	线芯结构根数／线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)		20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)	
			铜copper	铝aluminium	铝aluminium	铜copper
6(A)	7/0.85	5.0	50.3	29	4.91	3.08
6(B)	7/1.04	5.2	71.2			3.08
10	7/1.35	6.7	119	62	3.08	1.83
16	7/1.70	7.8	179	78	1.91	1.15
25	27/2.04	9.7	281	118	1.20	0.727
35	27/2.52	10.9	381	156	0.868	0.524
50	19/1.78	12.8	521	215	0.641	0.387
70	19/2.14	14.4	734	282	0.443	0.268
95	19/2.52	17.1	962	385	0.320	0.193
120	37/2.03	18.8	1180	431	0.253	0.153
150	37/2.25	20.9	1470	539	0.206	0.124
185	37/2.52	23.3	1810	666	0.164	0.0991
240	61/2.25	26.6	2350	857	0.125	0.0754
300	61/2.52	29.6	2930	1070	0.100	0.0601
400	61/2.85	33.2	3870	1390	0.0778	0.0470

BVVB、BLVVB300/500V

表4 Table 4							
标称截面 Nominal section (mm²)	线芯结构根数／线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm)		参考重量 Reference weight (kg/km)		20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)	
		铝aluminium	铜copper	铜copper	铝aluminium	铜copper	铝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	

BVVB、BLVVB300/500V

表4 Table 4							
标称截面 Nominal section (mm²)	线芯结构根数／线径 Number/diameter of core (mm)	最大外径 Maximum outer diameter (mm)		参考重量 Reference weight (kg/km)		20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)	
		铝aluminium	铜copper	铜copper	铝aluminium	铜copper	铝aluminium
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

BVV 300/500V

表5 Table 5			
标称截面 Nominal section (mm²)	线芯结构 Structure of cores 芯×根数／线径 Core×number/diameter(mm)	外径最大值 Maximum value of outer diameter (mm²)	参考重量 Reference weight (kg/km)
1×0.75	1×1/0.97	4.4	23
1×1.0	1×1/1.13	4.5	26.4
1×1.5(A)	1×1/1.38	5.0	34.6
1×1.5(B)	1×7/0.52	5.2	36.5
1×2.5(A)	1×1/0.85	5.7	46.4
1×4(A)	1×1/2.25	6.5	65.9
1×4(B)	1×7/0.85	6.8	73.7
1×6(A)	1×1/2.76	7.1	91.6
1×10	1×7/1.35	8.8	152.0
2×1.5(A)	2×1/1.38	10.0	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	14.0	286
2×10	2×7/1.35	17.5	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

BVV 300/500V

续表5 Table 5			
标称截面 Nominal section (mm²)	线芯结构 Structure of cores 芯×根数／线径 Core×number/diameter(mm)	外径最大值 Maximum value of outer diameter (mm²)	参考重量 Reference weight (kg/km)
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	13.5	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	15.0	346
4×6(A)	4×1/1.04	16.0	470
4×6(B)	4×7/2.76	17.0	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

表6 Table 6				
标称截面 Nominal section (mm²)	线芯结构根数／线径 N0.of cores/ diameter(mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)
2.5	19/0.41	4.1	34.7	7.41
4	19/0.52	4.8	51.4	4.61
6	19/0.64	5.3	73.6	3.08
10	49/0.52	7.3	129	1.83
16	49/0.64	8.6	186	1.15

BVR 450/750V

续表6 Table 6				
标称截面 Nominal section (mm²)	线芯结构根数／线径 N0.of cores/diameter (mm)	最大外径 Maximum outer diameter (mm²)	参考重量 Reference weight (kg/km)	20℃时导体电阻≤(Ω/km) Conductor resistance at 20℃(Ω/km)
25	98/0.58	10.2	306	0.727
35	133/0.58	11.7	403	0.524
50	133/0.68	13.9	553	0.387
70	189/0.68	16.0	764	0.268

5 技术性能 Technology property

- 1) 成品绝缘线和成品电线，放在20±5℃的室温水中至少1h后，能经受表7规定的交流电压试验。
- 2) 电线具有良好的电气绝缘性能、力学性能和不延燃性能，质量可靠，方便耐用。
- 3) 成品电线的绝缘或护套表面应有生产厂名、型号和电压的连续标志。
- 1) Finished insulation core and finished power 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-inflammablilty with reliable quality and convenient durability.
- 3) Finished power line should have products name, model and voltage signs.

表7 Table 7				
试验名称 Testing name	试验项目 Testing item		试验值 Testing value	
			电线额定电压 Rated voltage of wire	
			300/500V	450/750V
成品绝缘线芯电压试验 Finished insulation wire voltage testing	试验电压(V):按绝缘厚度 Testing voltage:in accordance with insulation thickness	0.6mm及以下 0.6mm and below	1500	-
		0.6mm及以上 over 0.6mm	2000	2500
	电压施加时间不小于(min) Voltage bring to bear on time not less than		5	5
成品电线电压试验 Finished product wire voltage testing	试验电压 Testing voltage		2000	2500
	电压施加时间不小于 Voltage bring to bear on time not less than		5	5

聚氯乙烯绝缘软电线(GB/T5023-2008)

PVC Insulation Flexible Wire (GB/T5023-2008)

1 用途 Application

本产品适用于交流额定电压450/750V及以下的家用电器、小型电动工具、仪器仪表及动力照明用装置连接。
This product is fit for ac rated voltage 450/750V and below of domestic electrical appliances, of smaller size motoriace tools.of instru-
ments. of various meters and motorized lighting installations.

2 使用条件 Applying terms

长期允许工作温度：RV-90型不超过90℃, 其它型号不超过70℃。
Working temperature: not more than 90℃ for RV-90 model the other no more than 70℃.

3 型号、名称 (见表1) Model and name (see table 1)

表1 Table 1	
型号Model	名称Name
RV	铜芯聚氯乙烯绝缘连接软电线 Copper core PVC insulation jointed flexible wire
RVB	铜芯聚氯乙烯绝缘平行连接软电线 Copper core PVC insulation paralled jointed flexible wire
RVS	铜芯聚氯乙烯绝缘绞形连接软电线 Copper core PVC insulation twisted joint flexible wire
RVV	铜芯聚氯乙烯绝缘聚氯乙烯护套圆形连接软电线 Copper core PVC insulation sheath parallel joint flexible wire
RVVB	铜芯聚氯乙烯绝缘聚氯乙烯护套平行连接软电线 Copper core PVC insulation sheath parallel joint flexible wire
RV-90	铜芯耐热90℃聚氯乙烯绝缘连接软电线 Copper core heat-resistak losc PVC joint flexible wire

4 规格尺寸及技术参数 (见表2-9) Specifiction size and technological data (see table 2-9)

RV 300/500V

表2 Table 2			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 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

表3 Table 3			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)
1.5	30/0.25	3.4	21.4
2.5	49/0.25	4.1	24.5

RV 450/750V

续表3 Table 3			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)
4	56/0.20	4.8	51.8
6	84/0.30	6.4	71.4
10	84/0.30	8.0	12.4

RVB 300/300V

表4 Table 4			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 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

RVS 300/300V

表5 Table 5			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 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

RVV 300/300V

表6 Table 6			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)
2×0.5	2×16/0.2	5.9	47.9
2×0.75	2×24/0.2	6.3	56.2
3×0.5	3×16/0.2	6.3	58.4
3×0.75	3×24/0.2	6.7	72.9

RVV 300/500V

表7 Table 7			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)
2×0.75	2×24/0.20	7.2	50
2×1.0	2×32/0.20	7.5	57.8
2×1.5	2×30/0.25	8.6	74.7
2×2.5	2×49/0.25	10.6	120
3×0.75	3×24/0.20	7.6	63.1
3×1.0	3×32/0.20	8.0	74.0
3×1.5	3×30/0.25	9.4	102.0
3×2.5	3×49/0.25	11.4	162.0
4×0.75	4×24/0.20	8.3	78.5
4×1.0	4×32/0.20	9.0	97.2
4×1.5	4×30/0.25	10.5	133.0
4×2.5	4×49/0.25	12.5	204.0
5×0.75	5×24/0.20	9.3	96.9
5×1.0	5×32/0.20	9.8	115
5×1.5	5×30/0.25	11.6	158
5×2.5	5×49/0.25	13.9	249

RVVB 300/300V

表8 Table 8			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 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

RV-90 450/750V

表9 Table 9			
标称截面 Nominal section (mm²)	线芯结构根数／直径 Core structure no./diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)
0.5	16/0.2	2.5	10.2
0.75	24/0.2	2.7	13.5
1.0	32/0.2	2.8	16.4
1.5	30/0.25	3.4	21.4
2.5	49/0.25	4.1	34.5
4	56/0.30	4.8	51.8
6	84/0.30	6.4	74.1

5 技术性能 Technological property

- 1) 成品绝缘线芯和成品电线，放在20±5℃的室温水中1小时以上，能经受表7规定的浸水电压试验。
- 2) 电线具有优良的电气绝缘性能、力学性能和不延燃性能，柔软安全，使用方便，成品电线的绝缘或护套表面应有厂名、型号和电压的连续标志。
- 1) If finished insulation core and finished power line is pot into warm water 20±5℃ for an hour, they will be able to bear stipulated acsohz, soaked voltage test as stated in table 7.
- 2) Wire has excellent electric insulation property. Mechanical property, non-inflammability.so it is safety and convenience in using the producer’ s name, the model and the voltage should be clearly printed on the surface of the finished power line of the insulation and sheath delivery requirements:

表7 Table 7					
试验名称 Testing name	试验项目 Testing item		试验项目 Testing value		
			电线额定电压 Rated voltage of wire		
			300/300V	300/500V	450/750V
成品绝缘线芯电压试验 Finished insulation wire voltage testing	试验电压(V):按绝缘厚度 Testing voltage: in accordance with insulation thickness	0.6mm及以下 0.6mm and below	1500	1500	-
		0.6mm及以上 over 0.6mm	2000	2000	2500
	电压施加时间不小于(min) Voltage bring to bear on time not less than		5	5	5
成品电线电压试验 Finished product wire voltage testing	试验电压 Testing voltage		2000	2000	2500
	电压施加时间不小于 Voltage bring to bear on time not less than		5	5	5

聚氯乙烯绝缘屏蔽电线(JB/T8734-2016)
PVC Insulation Shielded Wire (JB/T8734-2016)

1 用途 Application

本产品适用于交流额定电压300/300V及以下电器、仪表、电子设备及自动化装置，本产品采用的标准与国际电工委员会IEC227标准的规定相一致。

This product is fit for ac rated voltage 300/300V electric appliances, instruments and meters, electro-equipments and antomatic installations, dur standard for this product is based on the standard made by intemational electric commission IEC227 and is exactly the same.

2 型号、名称 (见表1-6) Model and name (see table 1-6)

表1 Table 1	
型号Model	名称Name
AVP	铜芯聚氯乙烯绝缘屏蔽电线 Copper core PVC insulation shielded wire
AVP-90	铜芯耐热90℃聚氯乙烯绝缘屏蔽电线 Heat-resistant 90℃ PVC insulation shielded wire
RVP	铜芯聚氯乙烯绝缘屏蔽软电线 Copper core PVC insulation shielded fiexible wire

续表1 Table 1	
型号Model	名称Name
RVP-90	铜芯耐热90℃聚氯乙烯绝缘屏蔽软电线 Heat-resistant 90℃ PVC insulation shielded flexible wire
RVVP	铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电线 PVC insulation shielded PVC sheath flexible wire
RVVP1	铜芯聚氯乙烯绝缘缠绕屏蔽聚氯乙烯护套软电线 PVC insulation entangled shielded PVC sheath flexible wire

AVP、AVP-90 300/300V

表2 Table 2				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
0.20	1/0.50	2.1	7.3	92.3
0.30	1/0.60	2.2	8.8	64.1
0.40	1/0.70	2.3	10.0	47.1

RVP、RVP-105 300/300V

表3 Table 3				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
0.20	12/0.15	2.2	8.3	92.3
0.30	16/0.15	2.6	10.5	69.2
0.40	23/0.15	3.0	15.9	48.2
0.50	16/0.20	3.1	16.8	39.0
0.75	24/0.20	3.4	20.9	26.0
1.0	32/0.20	3.8	26.5	19.5
1.5	30/0.25	4.1	32.4	13.3
2.5	49/0.25	4.9	48.2	7.98

RVP、RVP-90 300/300V二芯椭圆型

RVP、RVP-90 300/300V 2-core ellipse model

表4 Table 4				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
2×0.20	2×12/0.15	2.2×3.9	14.7	92.3
2×0.30	2×16/0.15	2.8×4.8	19.7	69.2
2×0.40	2×23/0.15	3.0×5.2	28.1	48.2
2×0.50	2×16/0.20	3.1×5.4	29.9	39.0

RVP、RVP-90 300/300V二芯椭圆型

RVP、RVP-90 300/300V 2-core ellipse model

续表4 Table 4				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
2×0.75	2×24/0.20	3.4×6.0	37.5	26.0
2×1.0	2×32/0.20	3.8×6.8	48.6	19.5
2×1.5	2×30/0.25	4.1×7.4	59.9	13.3

RVVP、RVVP1 300/300V二芯

RVVP、RVVP1 300/300V 2-core

表5 Table 5				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
2×0.20	2×12/0.15	5.3	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	7.4	70.7	26.0
2×1.0	2×32/0.20	8.2	86.7	19.5
2×1.5	2×30/0.25	9.2	110.4	13.3

RVVP、RVVP1 300/300V三芯

RVVP、RVVP1 300/300V 3-core

表6 Table 6				
标称截面 Nominal section (mm²)	线芯结构根数／线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
3×0.20	3×12/0.15	5.8	38.6	92.3
3×0.30	3×16/0.15	6.5	48.6	69.2
3×0.40	3×23/0.15	6.9	56.7	48.2
3×0.50	3×16/0.20	7.1	60.7	39.0
3×0.75	3×24/0.20	7.8	73.6	26.0
3×1.0	3×32/0.20	9.1	100	19.5
3×1.5	3×30/0.25	10.1	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	7.5	67.9	48.2

RVVP、RVVP¹ 300/300V三芯
RVVP、RVVP¹ 300/300V 3-core

续表6 Table 6				
标称截面 Nominal section (mm ²)	线芯结构根数/线径 No.of cores/diameter (mm)	最大外径 Max diameter (mm)	参考重量 Reference weight (kg/km)	导体电阻≤20℃(Ω/km) conductor resistance at ≤20℃ (Ω/km)
5×0.20	5×12/0.15	6.7	52.7	92.3
5×0.30	5×16/0.15	7.6	66.6	69.2
5×0.40	5×23/0.15	8.1	78.8	48.2
6×0.20	6×12/0.15	7.2	59.6	92.3
6×0.30	6×16/0.15	8.2	76.6	69.2
6×0.40	6×23/0.15	9.2	98.3	48.2
7×0.20	7×12/0.15	7.2	64.2	92.3
7×0.30	7×16/0.15	8.2	82.3	69.2
7×0.40	7×23/0.15	9.2	106.0	48.2
10×0.20	10×12/0.15	9.3	94.3	92.3
10×0.30	10×16/0.15	10.9	132.0	69.2
10×0.40	10×23/0.15	11.6	157.0	48.2
12×0.20	12×12/0.15	9.6	105	92.3
12×0.30	12×16/0.15	11.2	147	69.2
12×0.40	12×23/0.15	11.9	175	48.2

3 交货要求 Delivery requirements

- 3.1 根据双方的协议以任意长度交货
- 3.2 电缆应整齐卷绕在交货盘上，端头应密封良好，露出电缆盘外面的长度应满足测试要求，一只交货盘上只允许卷绕同一型号规格的电缆。
- 3.3 当双方无协议时，可按下表要求交货。
- 3.1 The length of cables should be in accordance with mutual agreements.
- 3.2 Cables delivery should be coiled orderly.Cable tip should be closely wrapped and seald. 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.
- 3.3 If there is no agreement, the requirements can be in accordance with the contents of following table.

电缆名称 Cable name	交货长度 delivery length(m)		短度比例 ratio of short	计量误差 measure error
	标准standard	短段short section	degree	
聚氯乙烯绝缘电线 PVC insulating wire	100	10	10%	±0.5%
额定电压300/500V橡皮绝缘固定敷设电线 Rubber insulation fixed laying wire at 300/500V rated voltage	100	20	10%	
聚氯乙烯绝缘软电线 PVC insulating soft wire	100	10	10%	
聚氯乙烯绝缘屏蔽电线 PVC insulating shielded wire	100	10	10%	

70年长寿命建筑用电线（JG/T441-2014）
70 years of long life building wires

1 用途 Application

本产品适用于额定电压450/750V及以下住宅小区、高层建筑、公共场所等建筑的消防系统、应急照明系统、输配电等要求70年以上寿命的场所。

This product is applicable to the rated voltage 450/750V and below the residential area, high-rise buildings, public places and other building fire systems, emergency lighting systems, power transmission and distribution requirements for more than 70 years of life.

2. 使用特性 Use characteristics

- 2.1 导体最高工作温度为90℃、105℃、125℃；
- 2.2 绝缘结构采用双层挤包型式，材料为辐照交联聚乙烯+辐照交联聚烯烃材料；
- 2.3 阻燃、耐火性能符合GB/T1966-2005标准要求；
- 2.4 烟密度，一级阻燃或一级耐火电线燃烧产生烟气的最小透光率大于80%，其余电缆燃烧产生烟气的最小透光率大于60%；
- 2.5 燃烧气体酸度，PH值大于4.3，电导率小于10μS/mm，溴和氯含量小于5mg/g，氟含量小于1mg/g；
- 2.6 绝缘材料的毒性指数小于5；
- 2.7 在导体工作温度为70℃下使用寿命部少于70年。
- 2.1 Maximum operating temperature of the conductor is 90℃, 105℃, 125℃;
- 2.2 The insulation structure is made of double layer extrusion, and the material is irradiated by cross linked polyethylene and crosslinked polyolefin materials;
- 2.3 Flame retardant, fire resistant performance in line with the GB/T1966-2005 standard requirements;
- 2.4 The minimum transmittance of smoke is greater than 80%, and the minimum transmittance of the flue gas is greater than 60%;
- 2.5 Combustion gas acidity, pH value is greater than 4.3, the conductivity is less than 10 mu S/mm, bromine and chlorine content is less than 5mg/g, fluorine content is less than 1mg/g;
- 2.6 The toxicity index of the insulation material is less than 5;
- 2.7 The service life of the conductor is less than 70 years at a temperature of 70℃.

3 型号、名称 (见表1) Model and name (see table 1)

型号Model	名称Name
WDZ-GYJS (F) /90	铜芯导体温度90℃双层共挤辐照交联聚烯烃绝缘无卤低烟阻燃电线 Copper conductor temperature of 90 DEG C extruding radiation cross-linked polyolefin insulated LSOH flame retardant wire
WDZ-GYJS (F) R/125	铜芯导体温度125℃双层共挤辐照交联聚烯烃绝缘无卤低烟阻燃软电线 Copper conductor temperature of 125 DEG C extruding radiation cross-linked polyolefin insulated low smoke halogen-free flame retardant flexible wire
注：WDZ分为A类、B类、C类。 Note: WDZ is divided into class A, class B, class C.	

4 结构尺寸、技术参数 Structure size, technology data

70导体标称截面积 95Nominnal 95section mm ²	导体种类 Conductor type (mm)	绝缘标称总厚度 Nominal total insulation (mm)	平均外径 (mm) Mean Outside Diameter		工作温度下最小 绝缘电阻MΩ·km Minimum operating temperature Insulation resistance MΩ·km
			WDZA-BYJ	WDZAN-BYJ	
0.5	1	0.6	1.9	2.3	1.5
0.5	5	0.6	2.1	2.5	1.3
0.75	1	0.6	2.1	2.5	1.2
0.75	5	0.6	2.2	2.7	1.1
1.0	1	0.6	2.2	2.7	1.1
1.0	5	0.6	2.4	2.8	1.0
1.5	1	0.7	2.6	3.2	1.1
1.5	5	0.7	2.7	3.3	1.0
2.5	1	0.8	3.2	3.9	1.0
2.5	5	0.8	3.4	4.1	0.9
4	1	0.8	3.6	4.4	0.85
4	5	0.8	3.9	4.8	0.70
6	1	0.8	4.3	5.2	0.70
6	5	0.8	4.4	5.3	0.60
10	1	1.0	5.3	6.4	0.70
10	5	1.0	5.7	6.8	0.56
16	2	1.0	6.4	7.8	0.50
16	5	1.0	6.7	8.1	0.46
25	2	1.2	8.1	9.7	0.50
25	5	1.2	8.4	10.2	0.44
35	2	1.2	9.0	10.9	0.43
35	8	1.2	9.7	11.7	0.38
50	2	1.4	10.6	12.8	0.43
50	5	1.4	11.5	13.9	0.37
70	2	1.4	12.1	14.6	0.35
70	5	1.4	13.2	16.0	0.32
95	2	1.6	14.1	17.1	0.35
95	5	1.6	15.1	18.2	0.32
120	2	1.6	15.6	18.8	0.32
120	5	1.6	16.7	20.2	0.29
150	2	1.8	17.3	20.9	0.32
150	5	1.8	18.2	22.5	0.29
185	2	2.0	19.3	23.3	0.32
185	5	2.0	20.6	24.9	0.29
240	2	2.2	22.0	26.6	0.32
240	5	2.2	23.5	28.4	0.28
300	2	2.4	24.5	29.6	0.30
400	2	2.6	27.5	33.2	0.28

交联聚烯烃绝缘电线
XLPE insulated wire

1 用途 Application

本产品适用于高层建筑、医院、剧院、电站、地铁、隧道、石油化工行业等有特殊的阻燃和无卤、低烟、低毒要求的固定敷设场合。
This product is suitable for high building, hospital, theater, power station, subway, tunnel, petrochemical industry, etc. there are special flame retardant and non halogen, low smoke, low toxicity requirements of fixed laying occasions.

2. 使用特性 Use characteristics

- 2.1 电缆的导体最高工作温度为90℃。
- 2.2 短路时（最长持续时间不超过5s）电缆导体最高工作温度为250℃，过载温度不超过130℃。
- 2.3 敷设时环境温度不低于0℃。
- 2.4 电缆阻燃耐火性能满足GB/T19666-2005标准中相应指标要求。
- 2.1 The maximum operating temperature of the conductor of the cable is 90℃。
- 2.2 When short circuit (the longest duration does not exceed 5S) the maximum operating temperature of the cable conductor is 250 degrees Celsius, the overload temperature is not more than 130℃。
- 2.3 Ambient temperature is not less than 0℃。
- 2.4 The fire resistance of the cable meets the requirements of the GB/T19666-2005 standard.

3 型号及名称 Model and name

- WDZ(A|B|C)-BYJ 铜芯交联聚烯烃绝缘电线 Copper core XLPE insulated wire
- WDZ(A|B|C)N-BYJ 铜芯交联聚烯烃绝缘耐火电线 Copper core XLPE insulated fire-resistant wire

4 结构尺寸、技术参数 Structure size, technology data

标称截面 Nominnal section mm ²	绝缘厚度 Insulation thickness (mm)	平均外径 Mean Outside Diameter (mm)	20℃时导体电阻 Conductor resistance at 20℃ (Ω/km)	最小绝缘电 阻Minimum insulation resis- tance (MΩ·km)	参考重量 Reference weight (kg/km)		载流量 Load flow (A)
					WDZA-BYJ	WDZAN-BYJ	
0.5	0.6	2.6	36.0	0.015	10	14	9
0.5	0.6	2.7	36.0	0.014	10	14	9
0.75	0.6	2.7	24.5	0.014	12	16	11
0.75	0.6	2.8	24.5	0.013	13	17	11
1	0.7	2.9	18.1	0.013	16	20	14
1	0.7	3.1	18.1	0.012	17	21	14
1.5	0.7	3.3	12.1	0.011	22	26	18
1.5	0.7	3.4	12.1	0.010	22	27	18
2.5	0.8	3.9	7.41	0.009	34	39	24
2.5	0.8	4.2	7.41	0.0085	35	41	24
4	0.8	4.4	4.61	0.0077	49	55	32
4	0.8	4.8	4.61	0.0070	50	57	32
6	0.8	4.9	3.08	0.0065	68	75	42
6	0.8	5.4	3.08	0.0070	70	78	42
10	1.0	6.8	1.83	0.0065	115	125	61
16	1.0	8.0	1.15	0.0050	174	185	83
25	1.2	9.8	0.727	0.0050	269	283	115
35	1.2	11.0	0.524	0.0040	365	380	140
50	1.4	13.0	0.387	0.0045	518	536	175
70	1.4	15.0	0.268	0.0035	709	729	225
95	1.6	17.0	0.193	0.0035	957	980	285
120	1.6	19.0	0.153	0.0032	1194	1219	335
150	1.8	21.0	0.124	0.0032	1491	1519	390
185	2.0	23.5	0.0991	0.0032	1840	1872	455
240	2.2	26.5	0.0754	0.0032	2377	2413	550