

额定电压 450/750V 及以下聚氯乙烯绝缘电缆（电线）(JB/T8734-2012, GB/T5023-2008)

PVC insulated cables (wires) of rated voltages up to and including 450/750V (JB/T8734-2012, GB/T5023-2008)

(普通型、阻燃型、耐火型)
(Ordinary type, Flame retardant, Fire secure type)

一、产品型号名称 Product model and name

型号 Model	名称 Name
60227 IEC01 (BV)	一般用途单芯硬导体无护套电缆 Single-core, rigid-conductor and non-sheathed general purpose cables
BV	铜芯聚氯乙烯绝缘电缆 (电线) PVC insulated cables (wires) with copper conductor
BVR	铜芯聚氯乙烯绝缘软电缆 (电线) PVC insulated, and flexible cables (wires) with copper conductor
BVV	铜芯聚氯乙烯绝缘聚氯乙烯护套圆型电缆 PVC insulated and sheathed, round cables (wires) with copper conductor
BVVB	铜芯聚氯乙烯绝缘聚氯乙烯护套扁型电缆 PVC insulated and sheathed, and flat cables (wires) with copper conductor
BV-105	铜芯耐热 105℃ 聚氯乙烯绝缘电缆 105℃ heat-resistant, and PVC insulated wires with copper conductor
BLV	铝芯聚氯乙烯绝缘电缆 (电线) PVC insulated cable (wire) with aluminum conductor

注：以上型号的聚氯乙烯绝缘电缆（电线），本厂还可以生产阻燃型、耐火型（Z系列，在以上型号前面加上 Z(A,B,C,D)。
Note: For PVC insulated cables (wires) of the above models, the factory can also produce anti-flaming and fire-resistant cables (for Z series, add Z (A,B,C,D) in front of the above models).

二、用途 Purpose

适用于交流电压 450/750V 及以下动力装置、日用电器、仪表及电信设备用的电缆电线。阻燃型电缆（电线）的特点是不易着火或着火后火焰蔓延较慢并能控制在一定的范围内，其使用于对阻燃性能较高的场合。阻燃电缆（电线）分为 A 类、B 类、C 类、D 类等四个级别，其中 A 类阻燃性能最优。

耐火型电缆（电线）的特点是电缆除了能在正常的工作条件下传输电力，还可在燃烧的状况下仍能保持一定时间的安全运行，其使用在对电缆特性有要求的场合。

Applicable to the cables and wires of rated voltage 450/750V and less than 450/750V AC for power plant, household electrical appliance, instrument and telecommunication equipment; in terms of the feature of anti-flaming cables (wires), the cable is not liable to ignite or fire spreads slowly and is only limited to a certain scope, applicable to the occasion of high flame-resistance performance. Anti-flaming cable (wire) is classified into four grades, Class A, Class B, Class C, and Class D among which Class A possesses the highest flame-resistance performance.

In terms of the characteristic of fire-resistant cables (wires), in addition to power transmission under normal working conditions, the cable can also safely operate for a certain period in case of a fire, applicable to occasions with high requirements for cable performance.

三、产品标准 Product standard

阻燃、耐火电线的生产标准为 GB/T19666-2005, GB/T5023-2008, JB/T8734-2012

The production standard for anti-flaming and fire-resistant cables is GB/T19666-2005, GB/T5023-2008, JB/T8734-2012

四、电缆主要特性 Main of cables features

1、U₀/U 为 450/750, 300/500, 300/300V

U₀/U is 450/750, 300/500, 300/300V

2、电缆的长期允许温度：105 型号电缆允许工作温度应不超过 105℃；其它型号允许工作温度应不超过 70℃。

Long-term allowable temperature of the cable: The allowable temperature of 105 Cable should not exceed 105℃; the allowable temperature of other models should not exceed 70℃.



3、电缆的敷设温度应不低于 0℃；
The laying temperature of cable should be not less than 0℃.

允许弯曲半径：(B 系列)
Allowable bending radius (Series B).

电缆外径 (D) 小于 25mm 者允许弯曲半径应不小于 4D；
When the diameter of the cable (D) is less than 25mm, the allowable bending radius should not be less than 4D.

电缆外径 (D) 为 25mm 及以上者允许弯曲半径应不小于 6D。
When the diameter of the cable (D) is 25mm or more than 25mm, the allowable bending radius should not be less than 6D.

4、阻燃电缆（电线）的阻燃性能应通过 GB/T18380.3-2008、IEC60332-3 成束电线电缆燃烧试验。
The purpose of anti-flaming cables (wires) should conform to GB/T18380.3-2008 and IEC 60332-3 pass the burning test of bundled cables (wires)

5、耐火电缆（电线）的耐火性能应通过 GB/T19216.21-2008、IEC60331 规定的耐火试验。
The purpose of fire-resistant cables (wires) should conform to GB/T19216.21-2008 and IEC6033 pass the burning test.

五、主要技术参数 Main technical parameters

	60227 1EC01 (BV)		Z (A, B, C, D) BV	N-BV	300/500V	450/750V	
电压级别 Voltage level	标称截面 Nominal section	导体根数 Number of conductors	外径上限 Toplimit of overall diameter	20℃最大直流电阻 Maximum DC resistance (20℃)	70℃最小绝缘电阻 Minimum insulation resistance (70℃)	载流量推荐值 Recommended value of carrying capacity	电缆参考重量 Reference weight
(V)	(mm ²)		(mm)	(Ω /km)	(MΩ · km)	(A)	(kg /km)
300/500	0.5	1	2.3	36	0.015	13	8.3
	0.75	7	2.6	24.5	0.012	17	10.9
	0.75	1	2.7	24.5	0.014	17	11.8
	1	7	2.8	18.1	0.011	20	13.7
	1	1	3.0	18.1	0.013	20	14.8
450/750	1.5	1	3.2	12.1	0.011	25	20.0
	1.5	7	3.3	12.1	0.010	25	21.3
	2.5	1	3.9	7.41	0.010	34	31.5
	2.5	7	4.0	7.41	0.009	34	34.4
	4	1	4.4	4.61	0.0085	44	46.8
	4	7	4.6	4.61	0.0077	44	48.1
	6	1	5.0	3.08	0.0070	58	65.1
	6	7	5.2	3.08	0.0065	58	68.8
	10	7	6.7	1.83	0.0065	79	111
	16	7	7.8	1.15	0.0050	111	166
	25	7	9.7	0.727	0.0050	146	263
	35	7	10.9	0.524	0.0040	180	356
	50	19	12.8	0.387	0.0045	228	487
	70	19	14.6	0.268	0.0035	281	679
	95	19	17.1	0.193	0.0035	344	932
	120	37	18.8	0.153	0.0032	397	1163
	150	37	20.9	0.124	0.0032	456	1424
	185	37	23.3	0.0991	0.0032	519	1789
	240	61	26.6	0.0754	0.0032	592	2335
	300	61	29.6	0.0601	0.0030	685	2924
	400	61	33.2	0.0470	0.0028	799	3750

BLV 450/750V

电压级别 Voltage level (V)	标称截面 Nominal section (mm ²)	导体根数 Number of conductors	外径上限 Toplimit of overall diameter (mm)	20℃最大直流电阻 Maximum DC resistance (20℃) (Ω/km)	70℃最小绝缘电阻 Minimum insulation resistance (70℃) (MΩ·km)	电缆参考重量 Reference weight (kg/km)
450/750	2.5	1	3.9	12.1	0.100	17.0
	4	1	4.4	7.41	0.0085	23.0
	6	1	5.0	4.61	0.0070	31.0
	10	7	6.7	3.08	0.0065	52.0
	16	7	7.8	1.91	0.0050	73.0
	25	7	9.7	1.20	0.0040	112
	35	7	10.9	0.868	0.0045	146
	50	19	12.8	0.641	0.0045	210
	70	19	14.6	0.443	0.0035	272
	95	19	17.1	0.320	0.0035	367
	120	37	18.7	0.253	0.0032	447
	150	37	20.9	0.206	0.0032	558
	185	61	23.3	0.164	0.0032	690
	240	61	26.6	0.125	0.0032	885
	300	61	29.6	0.100	0.0030	1103
	400	61	33.2	0.0778	0.0028	1435

BV-105 Z(A,B,C,D)-BV-105℃ N-BV-105 300/500V 450/750V

标称截面 Nominal section (mm ²)	外径上限 Toplimit of overall diameter (mm)	20℃最大直流电阻 Maximum DC resistance (20℃) (Ω/km)	70℃最小绝缘电阻 Minimum insulation resistance (70℃) (MΩ·km)	载流量推荐值 Recommended value of carrying capacity (A)	电缆参考重量 Reference weight (kg/km)
0.5	2.7	36.0	0.015	13	9.3
0.75	2.8	24.5	0.013	17	12.0
1	3.0	18.1	0.012	20	15.0
1.5	3.3	12.1	0.011	25	20.0
2.5	3.9	7.41	0.009	34	32
4	4.4	4.60	0.008	44	47
6	4.9	3.08	0.007	58	67

BVR-105℃ Z(A,B,C,D)-BVR N-BVR 450/750V

标称截面 Nominal section (mm ²)	导体根数 Number of conductors	外径上限 Toplimit of overall diameter (mm)	20℃最大直流电阻 Maximum DC resistance (20℃) (Ω/km)	70℃最小绝缘电阻 Minimum insulation resistance (70℃) (MΩ·km)	载流量推荐值 Recommended value of carrying capacity (A)	电缆参考重量 Reference weight (kg/km)
2.5	19	4.1	7.41	0.011	34	32
4	19	4.8	4.61	0.009	44	48
6	19	5.3	3.08	0.0084	58	67
10	49	7.3	1.83	0.0072	79	117
16	49	8.6	1.15	0.0062	111	173
25	98	10.2	0.727	0.0058	146	272
35	133	11.7	0.524	0.0052	180	363
50	133	13.9	0.387	0.0051	228	488
70	189	16.0	0.268	0.0045	281	682
95	259	1.6	18.2	0.193	344	944
120	259	1.6	19.8	0.153	397	1167
150	336	1.8	22.2	0.124	456	1453
185	427	2.0	24.6	0.0991	519	1809