

聚氯乙烯绝缘电缆 (电线) Cable (wire) with PVC Insulation

该类产品中B系列产品适用于交流额定电压450/750V及以下的动力装置固定敷设用；R系列产品适用于交流额定电压300/500V及以下的家用电器、小型电动工具、仪器、仪表及动力照明用铜芯聚氯乙烯绝缘连接软电缆（电线）。

一、生产执行标准

GB/T5023.1~7-2008

JB8734.1~5-1998等同采用IEC60227

二、分类和型号如下

- 0-固定布线用无护套电缆
- 01-一般用途单芯硬导体无护套电缆 (60227IEC01)
- 02-一般用途单芯软导体无护套电缆 (60227IEC02)
- 05-内部布线用导体温度为70℃的单芯实心导体无护套电缆 (60227IEC05)
- 06-内部布线用导体温度为70℃的单芯软导体无护套电缆 (60227IEC06)
- 07-内部布线用导体温度为90℃的单芯实心导体无护套电缆 (60227IEC07)
- 08-内部布线用导体温度为90℃的单芯软导体无护套电缆 (60227IEC08)
- 1-固定布线用护套电缆
- 10-轻型聚氯乙烯护套电缆 (60227IEC10)
- 5-一般用途护套软电缆
- 52-轻型聚氯乙烯护套软线 (60227IEC52)
- 53-普通聚氯乙烯护套软线 (60227IEC53)

三、产品型号中各字母代表意义

- 1、按用途分
 - 固定敷设用电线 (电线)B
 - 连接用软电线 (电线)R
 - 装饰照明用软线S
- 2、按材料特性分
 - 铜导体省略
 - 聚氯乙烯绝缘V
 - 聚氯乙烯护套V
 - 耐油聚氯乙烯护套VY
- 3、按结构特性分
 - 圆形省略
 - 扁形 (平型)B
 - 双绞型S
 - 屏蔽型P
 - 软结构R
- 4、按耐热特性分
 - 70℃省略
 - 90℃90

B series of the product are used for fixed laying in engine devices of A.C rated voltage 450/750V or lower; R series of soft connection cable (wire) with cu core, PVC insulation are used for household electrical appliance, small electrical tools, instruments and engine lighting of A.C rated voltage 300/500V or lower.

Executive standard:

GB/T5023.1~7-2008

JB8734.1~5-1998 (equal to IEC60227)

Classification and Type as follows:

- 0: Cable without sheath for permanent wiring
- 01: Cable with single core hard conductor, without sheath for general purpose (60227IEC01)
- 02: Cable with single core soft conductor, without sheath for general purpose (60227IEC02)
- 05: Cable with solid single conductor, without sheath at 70℃ of conductor temperature for interior wiring (60227IEC05)
- 06: Cable with soft single conductor, without sheath at 70℃ of conductor temperature for interior wiring (60227IEC06)
- 07: Cable with solid single conductor, without sheath at 90℃ of conductor temperature for interior wiring (60227IEC07)
- 08: cable with soft single conductor, without sheath at 90℃ of conductor temperature for interior wiring (60227IEC08)
- 1: Cable with sheath for permanent wiring
- 10: Light type cable with PVC sheath (60227IEC10)
- 5: Soft cable with sheath for general purpose
- 52: Light type soft wire with PVC sheath (60227IEC52)
- 53: Common soft wire with PVC sheath (60227IEC53)

Code Meaning

- Classified by usage
 - Cable (wire) for fixed installation.....B
 - Soft cable (wire) for connectionR
 - Soft wire for decorated lightingS
- Classified by material performance
 - Cu conductor.....omitted
 - PVC insulation.....V
 - PVC sheath.....V
 - Oil resistant PVC sheath.....VY
- Classified by structure character
 - Round typeomitted
 - Flat typeB
 - Twin transposition type.....S
 - Shielding type.....P
 - Soft structureR
- Classified by heat resistant performance
 - 70℃.....omitted
 - 90℃.....90

四、型号名称及相应执行标准

Type, Description and Relevant Executive Standard

型号 Type	名称 Description	芯数 Core number	生产范围 mm ² production scope	额定电压 (V) Rated voltage	执行标准 Executive standard
60227IEC01 (BV)	一般用途单芯硬导体无护套电缆 Cable with hard single conductor, without sheath for general purpose	1	1.5~400	450/750	GB/T5023.3
60227IEC02 (RV)	一般用途单芯软导体无护套电缆 Cable with soft single conductor, without sheath for general purpose	1	1.5~240	450/750	
60227IEC05 (BV)	内部布线用导体温度为70℃的单芯实心导体无护套电缆 Cable with solid single conductor, without sheath at 70℃ of conductor temperature for interior wiring	1	0.5~1.0	300/500	
60227IEC06 (RV)	内部布线用导体温度为70℃的单芯软导体无护套电缆 Cable with soft single conductor, without sheath at 70℃ of conductor temperature for interior wiring	1	0.5~1.0	300/500	
60227IEC07 (BV-90)	内部布线用导体温度为90℃的单芯实心导体无护套电缆 Cable with solid single conductor, without sheath at 90℃ of conductor temperature for interior wiring	1	0.5~2.5	300/500	
60227IEC08 (RV-90)	内部布线用导体温度为90℃的单芯软导体无护套电缆 Cable with solid single conductor, without sheath at 90℃ of conductor temperature for interior wiring	1	0.5~2.5	300/500	
60227IEC10 (BVV)	轻型聚氯乙烯护套电缆 Light type cable with PVC sheath	2~5	1.5~35	300/500	GB/T5023.4
60227IEC52 (RVV)	轻型聚氯乙烯护套软线 Light type soft wire with PVC sheath	2, 3	0.5, 0.75	300/300	GB/T5023.5
60227IEC53 (RVV)	普通聚氯乙烯护套软线 Common soft wire with PVC sheath	2~5	0.75~2.5	300/500	
BV	铜芯聚氯乙烯绝缘电线 Wire with cu core, PVC insulation	1	0.75, 1.0	300/500	JB8734.2
BLV	铝芯聚氯乙烯绝缘电线 Wire with aluminum core, PVC insulation	1	2.5~400	450/750	
BVR	铜芯聚氯乙烯绝缘软电线 Soft wire with cu core, PVC insulation	1	2.5~70	450/750	
BVV	铜芯聚氯乙烯绝缘护套圆形电缆 Round type cable with Cu core, PVC insulation	1	0.75~10	300/500	
BLVV	铝芯聚氯乙烯绝缘护套圆形电缆 Round type cable with aluminum core, PVC insulation	1	2.5~10	300/500	
BVVVB	铜芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with Cu core, PVC insulation	2, 3	0.75~10	300/500	
BLVVB	铝芯聚氯乙烯绝缘护套扁形电缆 Flat type cable with aluminum core, PVC insulation	2, 3	2.5~10	300/500	
RVVP	铜芯聚氯乙烯绝缘屏蔽聚氯乙烯护套软电缆 (线) Soft cable (wire) with Cu core, PVC insulation and shielding, PVC sheath	1 2, 3 4~24	0.3~2.5 0.3~1.5 0.2~0.4	300/300	JB8734.5

五、使用条件

1、长期允许工作温度应不超过：BV-90、RV-90型导体最高温度为90℃，其他型号为70℃。

2、电缆（线）敷设时温度应不低于0℃。

3、推荐的允许弯曲半径：

电缆外径<25mm，应不小于4倍的电缆外径。

电缆外径≥25mm，应不小于6倍的电缆外径。

Working Condition

1: Max conductor temperature for long-term working is no higher than 90℃ for BV-90、RV-90 type cable and 70℃ for other types.

2: Temperature for installing is no lower than 0℃ (wire).

3: Recommended bending radius:

It is no less than 4 times of cable OD when cable OD is less than 25mm.

It is no less than 6 times of cable OD when cable OD is at least more than 25mm

六、规格尺寸 (部分)

Specification and Size (part)

60227IEC01 (BV)

导体标称截面 mm ² nominal cross section area	导体 种类 conductor category	绝缘厚度标称值 mm nominal insulated thickness	外径上限 mm max. outer diameter	70℃时最小绝缘电阻 MΩ.km min insulated resistance at 70℃
1.5	1	0.7	3.0	0.011
1.5	2	0.7	3.2	0.010
2.5	1	0.8	3.6	0.010
2.5	2	0.8	3.9	0.009
4	1	0.8	4.1	0.0085
4	2	0.8	4.4	0.0077
6	1	0.8	4.6	0.0070
6	2	0.8	5.1	0.0065
10	1	1.0	5.9	0.0070
10	2	1.0	6.4	0.0065
16	2	1.0	7.4	0.0050
25	2	1.2	9.2	0.0050
35	2	1.2	10.3	0.0040
50	2	1.4	11.5	0.0045
70	2	1.4	13.1	0.0035
95	2	1.6	15.3	0.0035
120	2	1.6	17.0	0.0032
150	2	1.8	18.7	0.0032
185	2	2.0	20.8	0.0032
240	2	2.2	23.4	0.0032
300	2	2.4	27.0	0.0030
400	2	2.6	30.0	0.0028

60227IEC02 (RV)

导体标称截面mm ² nominal cross section area	绝缘厚度标称值 mm nominal insulated thickness	外径上限 mm max. outer diameter	70℃时最小绝缘电阻MΩ.km min insulated resistance at 70℃
1.5	0.7	3.2	0.010
2.5	0.8	3.8	0.009
4	0.8	4.8	0.007
6	0.8	5.3	0.006
10	1.0	7.0	0.0056
16	1.0	7.9	0.0046
25	1.2	9.9	0.0044
35	1.2	11.2	0.0038
50	1.4	13.3	0.0037
70	1.4	14.9	0.0032
95	1.6	17.7	0.0032
120	1.6	19.5	0.0029
150	1.8	21.9	0.0029
185	2.0	24.9	0.0029
240	2.2	28.0	0.0028

60227IEC05 (BV)

导体标称截面 mm ² nominal cross section area	绝缘厚度标称值 mm nominal insulated thickness	外径上限mm max. outer diameter	70℃时最小绝缘电阻MΩ.km min insulated resistance at 70℃
0.5	0.6	2.2	0.015
0.75	0.6	2.4	0.012
1.0	0.6	2.6	0.011

60227IEC06 (RV)

导体标称截面mm ² nominal cross section area	绝缘厚度标称值mm nominal insulated thickness	外径上限mm max. outer diameter	70℃时最小绝缘电阻MΩ.km min insulated resistance at 70℃
0.5	0.6	2.4	0.013
0.75	0.6	2.6	0.011
1.0	0.6	2.8	0.010

60227IEC07 (BV-90)

导体标称截面 mm ² nominal cross section area	绝缘厚度标称值 mm nominal insulated thickness	外径上限mm max. outer diameter	70℃时最小绝缘电阻MΩ.km min insulated resistance at 70℃
0.5	0.6	2.2	0.015
0.75	0.6	2.4	0.013
1.0	0.6	2.6	0.012
1.5	0.7	3.1	0.011
2.5	0.8	3.7	0.009

60227IEC08 (RV-90)

导体标称截面 mm ² nominal cross section area	绝缘厚度标称值 mm nominal insulated thickness	外径上限mm max. outer diameter	70℃时最小绝缘电阻MΩ.km min insulated resistance at 70℃
0.5	0.6	2.4	0.013
0.75	0.6	2.6	0.012
1.0	0.6	2.8	0.010
1.5	0.7	3.3	0.009
2.5	0.8	4.0	0.009

注：其它规格结构及技术参数请参见GB5023-1997或JB8734-1998标准。

Note: please refer to GB5023-1997or JB8734-1998standard for other specification and technical parameter.

七、交货长度

根据双方协议允许任何长度交货、长度计量误差为±0.5%。

Deliver Length

Delivery length of cable depends on both agreements with length error allowance of ±0.5%