



• Application

PVC insulated wire, conforming to IEC 60227, is designed for fixed installations. It is widely used as connectors for power, lighting, electronic equipment, instruments, and telecommunication devices with a rated voltage of 450/750V (U0/U) or below. Some types of these plastic wires are suitable for equipment with an A.C. rated voltage of 300/300V or below.

• Performance

Electrical Performance:

After being immersed in water at a temperature of $20\pm5^{\circ}\text{C}$ for one hour, the finished insulated wire and power cable should be able to withstand an A.C. voltage test, ensuring their suitability for wet conditions.

Insulation Properties:

The insulated wire offers excellent insulation properties, high mechanical strength, and flame retardancy. This ensures reliable quality, convenience, and durability in various applications.

• Construction

Conductor:

Made of high-quality copper or aluminum, meeting specific standards for conductivity and durability.

Insulation:

PVC compound with excellent electrical insulating properties, ensuring safety and longevity.

Sheath:

Additional PVC sheathing may be applied for extra protection against environmental factors and mechanical damage.

• Specification

-IEC 60227: PVC insulated cables with rated voltages up to and including 450/750 V

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

Type	Name	Rated Voltage	No. of cores	Nominal Section
-	-	mm ²	-	mm ²
60227 IEC 01	Copper conductor PVC insulated wire	450/750	1	1.5~400
60227 IEC 05	Copper conductor PVC insulated wire	300/500	1	0.5~1
60227 IEC 02	Copper conductor PVC insulated flexible connector wire	450/750	1	1.5~240
60227 IEC 06	Copper conductor PVC insulated flexible twisting connector wire	300/500	1	0.5~1

Table 1 60227 IEC 01(BV) 450/750V

No. of Cores & CSA	Structure of Conductor	Nominal Thickness of Insulation	Approx. Overall Diameter	Approx. Weight of Cable	Max. D.C. Resistance at 20°C
-	No./mm	mm	mm	kg/km	Ω/km
1.5	1/1.38	0.7	2.89	20.4	12.1
1.5	7/0.52	0.7	3.04	21.2	12.1
2.5	1/1.78	0.8	3.49	32.2	7.41
2.5	7/0.68	0.8	3.72	33.5	7.41
4	1/2.25	0.8	3.96	47.3	4.61
4	7/0.85	0.8	4.23	48.8	4.61
6	1/2.76	0.8	4.46	66.9	3.08
6	7/1.05	0.8	4.78	68.7	3.08
10	7/1.35	1	6.1	111.7	1.83
16	7/1.70	1	7.1	168.6	1.15
25	7/2.14	1.2	8.62	262.6	0.727
35	7/2.54	1.2	9.72	353.5	0.524
50	19/1.78	1.4	11.34	479.5	0.387
70	19/2.16	1.4	12.94	673.5	0.268
95	19/2.52	1.6	15.36	933.2	0.193
120	37/2.01	1.6	16.86	1163.2	0.153
150	37/2.25	1.8	18.68	1436.4	0.124
185	37/2.52	2	20.7	1786.3	0.0991
240	61/2.25	2.2	23.62	2342.2	0.0754
300	61/2.54	2.4	26.04	2927.6	0.0601
400	61/2.92	2.6	28.86	3747.3	0.047

● Technical Parameters

Table 2 60227 IEC 05(BV) 300/500V

No. of Cores & CSA	Structure of Conductor	Nominal Thickness of Insulation	Approx. Overall Diameter	Approx. Weight of Cable	Max. D.C. Resistance at 20°C
-	No./mm	mm	mm	kg/km	Ω/km
0.5	1/0.80	0.6	2.11	8.6	36
0.75	1/0.99	0.6	2.28	11.3	24.5
1	1/1.13	0.6	2.42	13.9	18.1

Table 3 60227 IEC 02(RV) 450/750V

No. of Cores & CSA	Structure of Conductor	Nominal Thickness of Insulation	Approx. Overall Diameter	Approx. Weight of Cable	Max. D.C. Resistance at 20°C
-	No./mm	mm	mm	kg/km	Ω/km
1.5	45/0.20	0.7	3.08	21.4	13.3
2.5	77/0.20	0.8	3.7	33.4	7.98
4	56/0.290	0.8	4.27	48.9	4.95
6	84/0.290	0.8	4.85	69	3.3
10	77/0.40	1	6.6	115.9	1.91
16	7*17/0.40	1	7.6	174.2	1.21
25	7*27/0.40	1.2	9.52	270.5	0.78
35	7*38/0.40	1.2	10.92	367.6	0.554
50	19*20/0.40	1.4	12.94	522.7	0.386
70	19*28/0.40	1.4	14.54	711.4	0.272
95	19*38/0.40	1.6	16.86	962.9	0.206
120	24*38/0.40	1.6	18.26	1196	0.161
150	30*38/0.40	1.8	20.28	1494.8	0.129
185	36*38/0.40	2	22.6	1844.4	0.106
240	48*38/0.40	2.2	25.62	2383.4	0.0801

Table 4 60227 IEC 06(RV) 300/500V

No. of Cores & CSA	Structure of conductor	Nominal Thickness of Insulation	Approx. Overall Diameter	Approx. Weight of Cable	Max. D.C. Resistance at 20°C
-	No./mm	mm	mm	kg/km	Ω/km
0.5	16/0.20	0.6	2.18	9	39
0.75	24/0.20	0.6	2.39	11.8	26
1	32/0.20	0.6	2.56	14.5	19.5