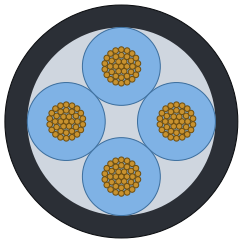
RVV Flexible Connecting Cable, 300/500 V

SORIVO Product Series: **PVC flexible cord** | 300/500 V | GB/T 5023.5 · IEC 60227-5 | 0.75–2.5 mm², 2–5 core



- PVC/ST5 sheath — 1.0 mm at 4×1.5
- Fillers
- PVC/D insulation — 0.7 mm, 70 °C
- Class 5 flexible copper, GB/T 3956

APPLICATION

Flexible 300/500 V cord for the fixed connection of appliances, control panels, small machines and lighting runs where a solid-conductor building wire cannot be dressed into a terminal. The Class 5 conductor and PVC/D insulation give it the bend tolerance a Class 1 or 2 cable does not have.

CONSTRUCTION

Conductor
Class 5 flexible stranded copper to GB/T 3956 (IEC 60228)

Insulation
PVC/D compound, 70 °C, colour or numeral coded

Sheath
PVC/ST5 compound, black, tightly extruded over the laid-up cores

MODEL DESIGNATION

RVV 60227 IEC 53 — ordinary duty PVC-insulated, PVC-sheathed flexible cord, 300/500 V · **60227 IEC 52** is the light-duty 300/300 V version, a different product

KEY FEATURES

- GB/T 5023.5-2008, equivalent to IEC 60227-5 — the number on the cable is the one the inspector looks for
- 300/500 V with a 2000 V AC routine test on every delivery length
- Class 5 flexible conductor: 2–5 cores, 0.75–2.5 mm² standard, 4 and 6 mm² available
- 70 °C continuous, -15 °C minimum operating ambient

STANDARDS

- GB/T 5023.5-2008 — PVC insulated cables, Part 5: flexible cables (cords)
- IEC 60227-5 — the international standard it is equivalent to
- GB/T 5023.1-2008 — general requirements, compound types
- GB/T 3956 — conductors, Class 5
- GB/T 18380.1 / IEC 60332-1 — single vertical flame test
- JB/T 8734.3 — additional sizes outside the GB/T 5023 table

TECHNICAL PARAMETERS

Rated Voltage
300/500 V AC (U_0/U)

Test Voltage
2000 V AC, 5 min, finished cable

Temperature
-15 °C to +70 °C operating

Conductor
Class 5 flexible copper, GB/T 3956

Insulation
PVC/D, nominal 0.7 mm at 1.5 mm²

Sheath
PVC/ST5, nominal 1.0 mm at 4×1.5

Cores
2–5 standard; more on request

Cross-sections
0.75–2.5 mm² standard; 4 and 6 available

Sheath Colour
Black standard; grey and other colours on request

300/500 V	2000 V	+70 °C
IEC 53	routine test	PVC/D · ST5

WHICH IEC NUMBER APPLIES

Table 1 — the two RVV designations are not interchangeable

DESIGNATION	RATED VOLTAGE U_0/U	CORES	CROSS-SECTION mm²	TYPICAL DUTY
60227 IEC 52 (RVV)	300/300 V	2–3	0.5–0.75	Light duty — lamps, small appliances
60227 IEC 53 (RVV)	**300/500 V**	**2–5**	**0.75–2.5**	**Ordinary duty — this datasheet**
60227 IEC 53, extended	300/500 V	2–4	4–6	To JB/T 8734.3, available

Voltage class by construction. 300/300 V is the light-duty designation and stops at 0.75 mm² in 2–3 cores. A 2.5 mm² cord cannot be 300/300 V — above 0.75 mm² the designation is 300/500 V, 60227 IEC 53. The 300/300 V designation therefore does not extend to 2.5 mm² cords.

RVV 4 × 1.5 MM²

Table 2 — the 4 × 1.5 mm² construction in full

PARAMETER	4 × 1.5 MM²	BASIS
Conductor	Class 5 flexible copper	GB/T 3956
Stranding	48 × 0.20 mm typical	GB/T 3956 limits wire dia.
Insulation	PVC/D, 0.7 mm nominal	GB/T 5023.1 compound type
Sheath	PVC/ST5, 1.0 mm nominal	GB/T 5023.1 compound type
Overall diameter	9.5–11.0 mm (max. 11.0)	GB/T 5023.5 table value
DC resistance @20 °C	≤ 13.3 Ω/km	Uncoated copper, Class 5
Rated voltage	300/500 V	60227 IEC 53
Test voltage	2000 V AC, 5 min	GB/T 5023.1 routine test
Temperature	-15 °C to +70 °C	Operating
Bend radius	4 × OD, fixed	Manufacturer recommendation
Core colours	Brown, blue, black, green/yellow	Other codes on request

Resistance is the uncoated-copper limit at 20 °C. The tinned-copper figure is 13.7 Ω/km and applies only if the conductor is plated; state which one you are quoting, because a buyer comparing two offers will use the lower number against you.

> **RVV is not KVV.** Both are PVC control-family cables sold in the same market, but KVV is the GB/T 9330 fixed-installation control cable at 450/750 V with Class 1 or 2 conductors, and RVV is the GB/T 5023.5 flexible cord at 300/500 V with Class 5 conductors. A 450/750 V requirement cannot be met with RVV.

Disclaimer. The information in this datasheet is for guidance only and is subject to change without notice. Dimensions and masses are nominal and subject to manufacturing tolerance; confirm against the certificate of the delivered product. This document is uncontrolled once printed or forwarded — the current revision, issued under document number SORIVO-TM-RVV-001, governs. © 2026 SORIVO. All rights reserved. Bending radius is a manufacturer recommendation; GB/T 5023.5 does not set one. Installation temperature is not less than 0 °C.