



FLEXIBLE POWER AND CONTROL CABLE

IEC 60502-1

70 orderable sizes

STANDARD IEC 60502-1	VOLTAGE CLASS 0.6/1 kV	CONDUCTOR Class 5 flexible copper conductor
INSULATION / JACKET Flexible PVC sheath		

Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 276 × Ø0.4 mm · IEC 60228 cl.5
- 2 ■ Core insulation – Flexible PVC
- 3 ■ Filler – PP filler
- 4 ■ Shield – Braid shield (C)
- 5 ■ Sheath – Flexible PVC sheath

Size selection — all available cross-sections

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 1.5 mm ²	Power and control connection	1 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	10.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 2.5 mm ²	Power and control connection	1 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	11.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 4 mm ²	Power and control connection	1 core	4 mm ²	4.95 Ω/km	Control cable without EMC screen	12.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 6 mm ²	Power and control connection	1 core	6 mm ²	3.30 Ω/km	Control cable without EMC screen	13.3 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 10 mm ²	Power and control connection	1 core	10 mm ²	1.91 Ω/km	Control cable without EMC screen	14.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 16 mm ²	Power and control connection	1 core	16 mm ²	1.15 Ω/km	Control cable without EMC screen	16.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 25 mm ²	Power and control connection	1 core	25 mm ²	0.727 Ω/km	Control cable without EMC screen	18.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 35 mm ²	Power and control connection	1 core	35 mm ²	0.524 Ω/km	Control cable without EMC screen	20.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 50 mm ²	Power and control connection	1 core	50 mm ²	0.387 Ω/km	Control cable without EMC screen	23.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 1 core 70 mm ²	Power and control connection	1 core	70 mm ²	0.268 Ω/km	Control cable without EMC screen	26.0 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 1.5 mm ²	Power and control connection	2 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 2.5 mm ²	Power and control connection	2 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.1 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 4 mm ²	Power and control connection	2 core	4 mm ²	4.95 Ω/km	Control cable without EMC screen	13.0 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 6 mm ²	Power and control connection	2 core	6 mm ²	3.30 Ω/km	Control cable without EMC screen	13.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 10 mm ²	Power and control connection	2 core	10 mm ²	1.91 Ω/km	Control cable without EMC screen	15.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 16 mm ²	Power and control connection	2 core	16 mm ²	1.15 Ω/km	Control cable without EMC screen	17.3 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 25 mm ²	Power and control connection	2 core	25 mm ²	0.727 Ω/km	Control cable without EMC screen	19.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 35 mm ²	Power and control connection	2 core	35 mm ²	0.524 Ω/km	Control cable without EMC screen	21.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 50 mm ²	Power and control connection	2 core	50 mm ²	0.387 Ω/km	Control cable without EMC screen	23.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 2 core 70 mm ²	Power and control connection	2 core	70 mm ²	0.268 Ω/km	Control cable without EMC screen	26.6 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 1.5 mm ²	Power and control connection	3 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 2.5 mm ²	Power and control connection	3 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.5 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 4 mm ²	Power and control connection	3 core	4 mm ²	4.95 Ω/km	Control cable without EMC screen	13.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 6 mm ²	Power and control connection	3 core	6 mm ²	3.30 Ω/km	Control cable without EMC screen	14.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 10 mm ²	Power and control connection	3 core	10 mm ²	1.91 Ω/km	Control cable without EMC screen	15.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 16 mm ²	Power and control connection	3 core	16 mm ²	1.15 Ω/km	Control cable without EMC screen	17.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 25 mm ²	Power and control connection	3 core	25 mm ²	0.727 Ω/km	Control cable without EMC screen	19.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 35 mm ²	Power and control connection	3 core	35 mm ²	0.524 Ω/km	Control cable without EMC screen	21.8 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 50 mm ²	Power and control connection	3 core	50 mm ²	0.387 Ω/km	Control cable without EMC screen	24.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core 70 mm ²	Power and control connection	3 core	70 mm ²	0.268 Ω/km	Control cable without EMC screen	27.1 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 1.5 mm ²	Power and control connection	3 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 2.5 mm ²	Power and control connection	3 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.5 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 4 mm ²	Power and control connection	3 core with PE	4 mm ²	4.95 Ω/km	Control cable without EMC screen	13.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 6 mm ²	Power and control connection	3 core with PE	6 mm ²	3.30 Ω/km	Control cable without EMC screen	14.4 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 10 mm ²	Power and control connection	3 core with PE	10 mm ²	1.91 Ω/km	Control cable without EMC screen	15.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 16 mm ²	Power and control connection	3 core with PE	16 mm ²	1.15 Ω/km	Control cable without EMC screen	17.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 25 mm ²	Power and control connection	3 core with PE	25 mm ²	0.727 Ω/km	Control cable without EMC screen	19.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 35 mm ²	Power and control connection	3 core with PE	35 mm ²	0.524 Ω/km	Control cable without EMC screen	21.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 50 mm ²	Power and control connection	3 core with PE	50 mm ²	0.387 Ω/km	Control cable without EMC screen	24.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 3 core with PE 70 mm ²	Power and control connection	3 core with PE	70 mm ²	0.268 Ω/km	Control cable without EMC screen	27.1 mm

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VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 1.5 mm ²	Power and control connection	4 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	12.1 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 2.5 mm ²	Power and control connection	4 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.9 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 4 mm ²	Power and control connection	4 core	4 mm ²	4.95 Ω/km	Control cable without EMC screen	13.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 6 mm ²	Power and control connection	4 core	6 mm ²	3.30 Ω/km	Control cable without EMC screen	14.8 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 10 mm ²	Power and control connection	4 core	10 mm ²	1.91 Ω/km	Control cable without EMC screen	16.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 16 mm ²	Power and control connection	4 core	16 mm ²	1.15 Ω/km	Control cable without EMC screen	18.1 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 25 mm ²	Power and control connection	4 core	25 mm ²	0.727 Ω/km	Control cable without EMC screen	20.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 35 mm ²	Power and control connection	4 core	35 mm ²	0.524 Ω/km	Control cable without EMC screen	22.2 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 50 mm ²	Power and control connection	4 core	50 mm ²	0.387 Ω/km	Control cable without EMC screen	24.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core 70 mm ²	Power and control connection	4 core	70 mm ²	0.268 Ω/km	Control cable without EMC screen	27.5 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 1.5 mm ²	Power and control connection	4 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	12.1 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 2.5 mm ²	Power and control connection	4 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.9 mm

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VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 10 mm ²	Power and control connection	4 core with PE	10 mm ²	1.91 Ω/km	Control cable without EMC screen	16.3 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 16 mm ²	Power and control connection	4 core with PE	16 mm ²	1.15 Ω/km	Control cable without EMC screen	18.1 mm
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VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 50 mm ²	Power and control connection	4 core with PE	50 mm ²	0.387 Ω/km	Control cable without EMC screen	24.7 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 4 core with PE 70 mm ²	Power and control connection	4 core with PE	70 mm ²	0.268 Ω/km	Control cable without EMC screen	27.5 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 5 core with PE 1.5 mm ²	Power and control connection	5 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	12.5 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 5 core with PE 2.5 mm ²	Power and control connection	5 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	13.2 mm
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VV-K flexible control cable 0.6/1 kV Power and control connection 5 core with PE 35 mm ²	Power and control connection	5 core with PE	35 mm ²	0.524 Ω/km	Control cable without EMC screen	22.6 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 5 core with PE 50 mm ²	Power and control connection	5 core with PE	50 mm ²	0.387 Ω/km	Control cable without EMC screen	25.0 mm
VV-K flexible control cable 0.6/1 kV Power and control connection 5 core with PE 70 mm ²	Power and control connection	5 core with PE	70 mm ²	0.268 Ω/km	Control cable without EMC screen	27.8 mm