



## GENERAL FLEXIBLE CONTROL CABLE

VDE 0250

70 orderable sizes

STANDARD <b>VDE 0250</b>	VOLTAGE CLASS <b>300/500 V</b>	CONDUCTOR <b>Class 5 flexible copper conductor</b>
INSULATION / JACKET <b>PVC sheath</b>		

### Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 16 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ Core insulation – PVC
- 3 ■ Filler – PP filler
- 4 ■ Shield – Braid shield (C)
- 5 ■ Sheath – 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
YY flexible control cable 300/500 V Light industrial control 2 core 0.5 mm <sup>2</sup>	Light industrial control	2 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	9.5 mm
YY flexible control cable 300/500 V Light industrial control 2 core 0.75 mm <sup>2</sup>	Light industrial control	2 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	9.8 mm
YY flexible control cable 300/500 V Light industrial control 2 core 1.0 mm <sup>2</sup>	Light industrial control	2 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	10.1 mm
YY flexible control cable 300/500 V Light industrial control 2 core 1.5 mm <sup>2</sup>	Light industrial control	2 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	10.6 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
YY flexible control cable 300/500 V Light industrial control 2 core 2.5 mm <sup>2</sup>	Light industrial control	2 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	11.4 mm
YY flexible control cable 300/500 V Light industrial control 2 core 4 mm <sup>2</sup>	Light industrial control	2 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	12.3 mm
YY flexible control cable 300/500 V Light industrial control 2 core 6 mm <sup>2</sup>	Light industrial control	2 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	13.2 mm
YY flexible control cable 300/500 V Light industrial control 3 core 0.5 mm <sup>2</sup>	Light industrial control	3 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	9.9 mm
YY flexible control cable 300/500 V Light industrial control 3 core 0.75 mm <sup>2</sup>	Light industrial control	3 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	10.3 mm
YY flexible control cable 300/500 V Light industrial control 3 core 1.0 mm <sup>2</sup>	Light industrial control	3 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	10.6 mm
YY flexible control cable 300/500 V Light industrial control 3 core 1.5 mm <sup>2</sup>	Light industrial control	3 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	11.0 mm
YY flexible control cable 300/500 V Light industrial control 3 core 2.5 mm <sup>2</sup>	Light industrial control	3 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	11.8 mm
YY flexible control cable 300/500 V Light industrial control 3 core 4 mm <sup>2</sup>	Light industrial control	3 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	12.7 mm
YY flexible control cable 300/500 V Light industrial control 3 core 6 mm <sup>2</sup>	Light industrial control	3 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	13.7 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 0.5 mm <sup>2</sup>	Light industrial control	3 core with PE	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	9.9 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 0.75 mm <sup>2</sup>	Light industrial control	3 core with PE	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	10.3 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
YY flexible control cable 300/500 V Light industrial control 3 core with PE 1.0 mm <sup>2</sup>	Light industrial control	3 core with PE	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	10.6 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 1.5 mm <sup>2</sup>	Light industrial control	3 core with PE	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	11.0 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 2.5 mm <sup>2</sup>	Light industrial control	3 core with PE	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	11.8 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 4 mm <sup>2</sup>	Light industrial control	3 core with PE	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	12.7 mm
YY flexible control cable 300/500 V Light industrial control 3 core with PE 6 mm <sup>2</sup>	Light industrial control	3 core with PE	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	13.7 mm
YY flexible control cable 300/500 V Light industrial control 4 core 0.5 mm <sup>2</sup>	Light industrial control	4 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	10.3 mm
YY flexible control cable 300/500 V Light industrial control 4 core 0.75 mm <sup>2</sup>	Light industrial control	4 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	10.7 mm
YY flexible control cable 300/500 V Light industrial control 4 core 1.0 mm <sup>2</sup>	Light industrial control	4 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	11.0 mm
YY flexible control cable 300/500 V Light industrial control 4 core 1.5 mm <sup>2</sup>	Light industrial control	4 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	11.4 mm
YY flexible control cable 300/500 V Light industrial control 4 core 2.5 mm <sup>2</sup>	Light industrial control	4 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	12.2 mm
YY flexible control cable 300/500 V Light industrial control 4 core 4 mm <sup>2</sup>	Light industrial control	4 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	13.1 mm
YY flexible control cable 300/500 V Light industrial control 4 core 6 mm <sup>2</sup>	Light industrial control	4 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	14.1 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
YY flexible control cable 300/500 V Light industrial control 4 core with PE 0.5 mm <sup>2</sup>	Light industrial control	4 core with PE	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	10.3 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 0.75 mm <sup>2</sup>	Light industrial control	4 core with PE	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	10.7 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 1.0 mm <sup>2</sup>	Light industrial control	4 core with PE	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	11.0 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 1.5 mm <sup>2</sup>	Light industrial control	4 core with PE	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	11.4 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 2.5 mm <sup>2</sup>	Light industrial control	4 core with PE	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	12.2 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 4 mm <sup>2</sup>	Light industrial control	4 core with PE	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	13.1 mm
YY flexible control cable 300/500 V Light industrial control 4 core with PE 6 mm <sup>2</sup>	Light industrial control	4 core with PE	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	14.1 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 0.5 mm <sup>2</sup>	Light industrial control	5 core with PE	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	10.7 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 0.75 mm <sup>2</sup>	Light industrial control	5 core with PE	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	11.0 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 1.0 mm <sup>2</sup>	Light industrial control	5 core with PE	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	11.3 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 1.5 mm <sup>2</sup>	Light industrial control	5 core with PE	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	11.8 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 2.5 mm <sup>2</sup>	Light industrial control	5 core with PE	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	12.5 mm

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YY flexible control cable 300/500 V Light industrial control 5 core with PE 4 mm <sup>2</sup>	Light industrial control	5 core with PE	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	13.4 mm
YY flexible control cable 300/500 V Light industrial control 5 core with PE 6 mm <sup>2</sup>	Light industrial control	5 core with PE	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	14.4 mm
YY flexible control cable 300/500 V Light industrial control 7 core 0.5 mm <sup>2</sup>	Light industrial control	7 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	11.3 mm
YY flexible control cable 300/500 V Light industrial control 7 core 0.75 mm <sup>2</sup>	Light industrial control	7 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	11.6 mm
YY flexible control cable 300/500 V Light industrial control 7 core 1.0 mm <sup>2</sup>	Light industrial control	7 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	11.9 mm
YY flexible control cable 300/500 V Light industrial control 7 core 1.5 mm <sup>2</sup>	Light industrial control	7 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	12.4 mm
YY flexible control cable 300/500 V Light industrial control 7 core 2.5 mm <sup>2</sup>	Light industrial control	7 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	13.1 mm
YY flexible control cable 300/500 V Light industrial control 7 core 4 mm <sup>2</sup>	Light industrial control	7 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	14.0 mm
YY flexible control cable 300/500 V Light industrial control 7 core 6 mm <sup>2</sup>	Light industrial control	7 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	15.0 mm
YY flexible control cable 300/500 V Light industrial control 12 core 0.5 mm <sup>2</sup>	Light industrial control	12 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	12.4 mm
YY flexible control cable 300/500 V Light industrial control 12 core 0.75 mm <sup>2</sup>	Light industrial control	12 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	12.8 mm
YY flexible control cable 300/500 V Light industrial control 12 core 1.0 mm <sup>2</sup>	Light industrial control	12 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	13.1 mm

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YY flexible control cable 300/500 V Light industrial control 12 core 1.5 mm <sup>2</sup>	Light industrial control	12 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	13.6 mm
YY flexible control cable 300/500 V Light industrial control 12 core 2.5 mm <sup>2</sup>	Light industrial control	12 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	14.3 mm
YY flexible control cable 300/500 V Light industrial control 12 core 4 mm <sup>2</sup>	Light industrial control	12 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	15.2 mm
YY flexible control cable 300/500 V Light industrial control 12 core 6 mm <sup>2</sup>	Light industrial control	12 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	16.2 mm
YY flexible control cable 300/500 V Light industrial control 18 core 0.5 mm <sup>2</sup>	Light industrial control	18 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	13.6 mm
YY flexible control cable 300/500 V Light industrial control 18 core 0.75 mm <sup>2</sup>	Light industrial control	18 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	13.9 mm
YY flexible control cable 300/500 V Light industrial control 18 core 1.0 mm <sup>2</sup>	Light industrial control	18 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	14.2 mm
YY flexible control cable 300/500 V Light industrial control 18 core 1.5 mm <sup>2</sup>	Light industrial control	18 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	14.7 mm
YY flexible control cable 300/500 V Light industrial control 18 core 2.5 mm <sup>2</sup>	Light industrial control	18 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	15.5 mm
YY flexible control cable 300/500 V Light industrial control 18 core 4 mm <sup>2</sup>	Light industrial control	18 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	16.4 mm
YY flexible control cable 300/500 V Light industrial control 18 core 6 mm <sup>2</sup>	Light industrial control	18 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	17.3 mm
YY flexible control cable 300/500 V Light industrial control 25 core 0.5 mm <sup>2</sup>	Light industrial control	25 core	0.5 mm <sup>2</sup>	39.0 Ω/km	Control cable without EMC screen	14.7 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
<b>YY flexible control cable 300/500 V Light industrial control 25 core 0.75 mm<sup>2</sup></b>	Light industrial control	25 core	0.75 mm <sup>2</sup>	26.0 Ω/km	Control cable without EMC screen	15.0 mm
<b>YY flexible control cable 300/500 V Light industrial control 25 core 1.0 mm<sup>2</sup></b>	Light industrial control	25 core	1.0 mm <sup>2</sup>	19.5 Ω/km	Control cable without EMC screen	15.3 mm
<b>YY flexible control cable 300/500 V Light industrial control 25 core 1.5 mm<sup>2</sup></b>	Light industrial control	25 core	1.5 mm <sup>2</sup>	13.3 Ω/km	Control cable without EMC screen	15.8 mm
<b>YY flexible control cable 300/500 V Light industrial control 25 core 2.5 mm<sup>2</sup></b>	Light industrial control	25 core	2.5 mm <sup>2</sup>	7.98 Ω/km	Control cable without EMC screen	16.5 mm
<b>YY flexible control cable 300/500 V Light industrial control 25 core 4 mm<sup>2</sup></b>	Light industrial control	25 core	4 mm <sup>2</sup>	4.95 Ω/km	Control cable without EMC screen	17.4 mm
<b>YY flexible control cable 300/500 V Light industrial control 25 core 6 mm<sup>2</sup></b>	Light industrial control	25 core	6 mm <sup>2</sup>	3.30 Ω/km	Control cable without EMC screen	18.4 mm