



SCREENED PUR MACHINE CONTROL CABLE

VDE 0250

45 orderable sizes

STANDARD VDE 0250	VOLTAGE CLASS 300/500 V	CONDUCTOR Class 5 flexible copper conductor
INSULATION / JACKET PUR oil and abrasion resistant sheath		

Construction

- 1 ■ **Conductor (per core)** – Class 5 flexible copper conductor · 32 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ **Core insulation** – PVC or special control-core insulation
- 3 ■ **Filler** – PP filler
- 4 ■ **Shield** – Braid shield (C)
- 5 ■ **Sheath** – PUR oil and abrasion resistant 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
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 2 core 0.5 mm ²	Screened oil-resistant control	2 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	10.1 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 2 core 0.75 mm ²	Screened oil-resistant control	2 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	10.4 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 2 core 1.0 mm ²	Screened oil-resistant control	2 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	10.7 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 2 core 1.5 mm ²	Screened oil-resistant control	2 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	11.2 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 2 core 2.5 mm ²	Screened oil-resistant control	2 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	12.0 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core 0.5 mm ²	Screened oil-resistant control	3 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	10.5 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core 0.75 mm ²	Screened oil-resistant control	3 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	10.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core 1.0 mm ²	Screened oil-resistant control	3 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	11.2 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core 1.5 mm ²	Screened oil-resistant control	3 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	11.6 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core 2.5 mm ²	Screened oil-resistant control	3 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	12.4 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core with PE 0.5 mm ²	Screened oil-resistant control	3 core with PE	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	10.5 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core with PE 0.75 mm ²	Screened oil-resistant control	3 core with PE	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	10.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core with PE 1.0 mm ²	Screened oil-resistant control	3 core with PE	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	11.2 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core with PE 1.5 mm ²	Screened oil-resistant control	3 core with PE	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	11.6 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 3 core with PE 2.5 mm ²	Screened oil-resistant control	3 core with PE	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	12.4 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core 0.5 mm ²	Screened oil-resistant control	4 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	10.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core 0.75 mm ²	Screened oil-resistant control	4 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	11.3 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core 1.0 mm ²	Screened oil-resistant control	4 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	11.6 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core 1.5 mm ²	Screened oil-resistant control	4 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	12.0 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core 2.5 mm ²	Screened oil-resistant control	4 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	12.8 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core with PE 0.5 mm ²	Screened oil-resistant control	4 core with PE	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	10.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core with PE 0.75 mm ²	Screened oil-resistant control	4 core with PE	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	11.3 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core with PE 1.0 mm ²	Screened oil-resistant control	4 core with PE	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	11.6 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core with PE 1.5 mm ²	Screened oil-resistant control	4 core with PE	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	12.0 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 4 core with PE 2.5 mm ²	Screened oil-resistant control	4 core with PE	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	12.8 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control	Screened oil-resistant control	5 core with PE	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	11.3 mm

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control 5 core with PE 0.5 mm ²						
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 5 core with PE 0.75 mm ²	Screened oil-resistant control	5 core with PE	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	11.6 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 5 core with PE 1.0 mm ²	Screened oil-resistant control	5 core with PE	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	11.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 5 core with PE 1.5 mm ²	Screened oil-resistant control	5 core with PE	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	12.4 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 5 core with PE 2.5 mm ²	Screened oil-resistant control	5 core with PE	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	13.1 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 7 core 0.5 mm ²	Screened oil-resistant control	7 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	11.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 7 core 0.75 mm ²	Screened oil-resistant control	7 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	12.2 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 7 core 1.0 mm ²	Screened oil-resistant control	7 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	12.5 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 7 core 1.5 mm ²	Screened oil-resistant control	7 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	13.0 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 7 core 2.5 mm ²	Screened oil-resistant control	7 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	13.7 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 12 core 0.5 mm ²	Screened oil-resistant control	12 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	13.0 mm

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PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 12 core 0.75 mm ²	Screened oil-resistant control	12 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	13.4 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 12 core 1.0 mm ²	Screened oil-resistant control	12 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	13.7 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 12 core 1.5 mm ²	Screened oil-resistant control	12 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	14.2 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 12 core 2.5 mm ²	Screened oil-resistant control	12 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	14.9 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 18 core 0.5 mm ²	Screened oil-resistant control	18 core	0.5 mm ²	39.0 Ω/km	Tinned copper wire braid screen	14.2 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 18 core 0.75 mm ²	Screened oil-resistant control	18 core	0.75 mm ²	26.0 Ω/km	Tinned copper wire braid screen	14.5 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 18 core 1.0 mm ²	Screened oil-resistant control	18 core	1.0 mm ²	19.5 Ω/km	Tinned copper wire braid screen	14.8 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 18 core 1.5 mm ²	Screened oil-resistant control	18 core	1.5 mm ²	13.3 Ω/km	Tinned copper wire braid screen	15.3 mm
PUR CY screened flexible control cable 300/500 V Screened oil-resistant control 18 core 2.5 mm ²	Screened oil-resistant control	18 core	2.5 mm ²	7.98 Ω/km	Tinned copper wire braid screen	16.1 mm