



MECHANICALLY PROTECTED FLEXIBLE CONTROL CABLE

VDE 0250

54 orderable sizes

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

Construction

- 1 ■ Conductor (per core) – Class 5 flexible copper conductor · 50 × Ø0.25 mm · IEC 60228 cl.5
- 2 ■ Core insulation – PVC
- 3 ■ Filler – PP filler
- 4 ■ Shield – Braid shield (C)
- 5 ■ Sheath – Transparent 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
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 0.75 mm ²	Mechanical protection control	3 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	10.3 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 1.0 mm ²	Mechanical protection control	3 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	10.6 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 1.5 mm ²	Mechanical protection control	3 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	11.0 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 2.5 mm ²	Mechanical protection control	3 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	11.8 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 4 mm ²	Mechanical protection control	3 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	12.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core 6 mm ²	Mechanical protection control	3 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	13.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 0.75 mm ²	Mechanical protection control	3 core with PE	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	10.3 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 1.0 mm ²	Mechanical protection control	3 core with PE	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	10.6 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 1.5 mm ²	Mechanical protection control	3 core with PE	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	11.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 2.5 mm ²	Mechanical protection control	3 core with PE	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	11.8 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 4 mm ²	Mechanical protection control	3 core with PE	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	12.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 3 core with PE 6 mm ²	Mechanical protection control	3 core with PE	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	13.7 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 0.75 mm ²	Mechanical protection control	4 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	10.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 1.0 mm ²	Mechanical protection control	4 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	11.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 1.5 mm ²	Mechanical protection control	4 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	11.4 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 2.5 mm ²	Mechanical protection control	4 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	12.2 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 4 mm ²	Mechanical protection control	4 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	13.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core 6 mm ²	Mechanical protection control	4 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	14.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 0.75 mm ²	Mechanical protection control	4 core with PE	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	10.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 1.0 mm ²	Mechanical protection control	4 core with PE	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	11.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 1.5 mm ²	Mechanical protection control	4 core with PE	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	11.4 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 2.5 mm ²	Mechanical protection control	4 core with PE	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	12.2 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 4 mm ²	Mechanical protection control	4 core with PE	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	13.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 4 core with PE 6 mm ²	Mechanical protection control	4 core with PE	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	14.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 0.75 mm ²	Mechanical protection control	5 core with PE	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	11.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 1.0 mm ²	Mechanical protection control	5 core with PE	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	11.3 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 1.5 mm ²	Mechanical protection control	5 core with PE	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	11.8 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 2.5 mm ²	Mechanical protection control	5 core with PE	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	12.5 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 4 mm ²	Mechanical protection control	5 core with PE	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	13.4 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 5 core with PE 6 mm ²	Mechanical protection control	5 core with PE	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	14.4 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 0.75 mm ²	Mechanical protection control	7 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	11.6 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 1.0 mm ²	Mechanical protection control	7 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	11.9 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 1.5 mm ²	Mechanical protection control	7 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	12.4 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 2.5 mm ²	Mechanical protection control	7 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	13.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 4 mm ²	Mechanical protection control	7 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	14.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 7 core 6 mm ²	Mechanical protection control	7 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	15.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 0.75 mm ²	Mechanical protection control	12 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	12.8 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 1.0 mm ²	Mechanical protection control	12 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	13.1 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 1.5 mm ²	Mechanical protection control	12 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	13.6 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 2.5 mm ²	Mechanical protection control	12 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	14.3 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 4 mm ²	Mechanical protection control	12 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	15.2 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 12 core 6 mm ²	Mechanical protection control	12 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	16.2 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 0.75 mm ²	Mechanical protection control	18 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	13.9 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 1.0 mm ²	Mechanical protection control	18 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	14.2 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 1.5 mm ²	Mechanical protection control	18 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	14.7 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 2.5 mm ²	Mechanical protection control	18 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	15.5 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 4 mm ²	Mechanical protection control	18 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	16.4 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 18 core 6 mm ²	Mechanical protection control	18 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	17.3 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 0.75 mm²	Mechanical protection control	25 core	0.75 mm ²	26.0 Ω/km	Galvanized steel wire braid mechanical protection	15.0 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 1.0 mm²	Mechanical protection control	25 core	1.0 mm ²	19.5 Ω/km	Galvanized steel wire braid mechanical protection	15.3 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 1.5 mm²	Mechanical protection control	25 core	1.5 mm ²	13.3 Ω/km	Galvanized steel wire braid mechanical protection	15.8 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 2.5 mm²	Mechanical protection control	25 core	2.5 mm ²	7.98 Ω/km	Galvanized steel wire braid mechanical protection	16.5 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 4 mm²	Mechanical protection control	25 core	4 mm ²	4.95 Ω/km	Galvanized steel wire braid mechanical protection	17.4 mm
SY steel wire braid flexible control cable 300/500 V Mechanical protection control 25 core 6 mm²	Mechanical protection control	25 core	6 mm ²	3.30 Ω/km	Galvanized steel wire braid mechanical protection	18.4 mm