



OIL RESISTANT MOBILE CONTROL CABLE

EN 50525-2-51

45 orderable sizes

STANDARD EN 50525-2-51	VOLTAGE CLASS 300/500 V	CONDUCTOR Class 5 flexible copper conductor
INSULATION / JACKET Oil resistant flexible PVC sheath		

Construction

- 1 ■ **Conductor (per core)** – Class 5 flexible copper conductor · 32 × Ø0.2 mm · IEC 60228 cl.5
- 2 ■ **Core insulation** – Flexible PVC
- 3 ■ **Filler** – PP filler
- 4 ■ **Shield** – Braid shield (C)
- 5 ■ **Sheath** – Oil resistant 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
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 2 core 0.5 mm ²	Oil-resistant machine control	2 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	9.5 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 2 core 0.75 mm ²	Oil-resistant machine control	2 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	9.8 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 2 core 1.0 mm ²	Oil-resistant machine control	2 core	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	10.1 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 2 core 1.5 mm ²	Oil-resistant machine control	2 core	1.5 mm ²	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
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 2 core 2.5 mm ²	Oil-resistant machine control	2 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	11.4 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core 0.5 mm ²	Oil-resistant machine control	3 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	9.9 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core 0.75 mm ²	Oil-resistant machine control	3 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	10.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core 1.0 mm ²	Oil-resistant machine control	3 core	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	10.6 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core 1.5 mm ²	Oil-resistant machine control	3 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.0 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core 2.5 mm ²	Oil-resistant machine control	3 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	11.8 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core with PE 0.5 mm ²	Oil-resistant machine control	3 core with PE	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	9.9 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core with PE 0.75 mm ²	Oil-resistant machine control	3 core with PE	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	10.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core with PE 1.0 mm ²	Oil-resistant machine control	3 core with PE	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	10.6 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core with PE 1.5 mm ²	Oil-resistant machine control	3 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.0 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 3 core with PE 2.5 mm ²	Oil-resistant machine control	3 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	11.8 mm

Cable reference	Service class	Core design	Conductor size	Max DC resistance at 20 °C	EMC / protection	OD guide
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core 0.5 mm ²	Oil-resistant machine control	4 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	10.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core 0.75 mm ²	Oil-resistant machine control	4 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	10.7 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core 1.0 mm ²	Oil-resistant machine control	4 core	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	11.0 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core 1.5 mm ²	Oil-resistant machine control	4 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.4 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core 2.5 mm ²	Oil-resistant machine control	4 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.2 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core with PE 0.5 mm ²	Oil-resistant machine control	4 core with PE	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	10.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core with PE 0.75 mm ²	Oil-resistant machine control	4 core with PE	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	10.7 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core with PE 1.0 mm ²	Oil-resistant machine control	4 core with PE	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	11.0 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core with PE 1.5 mm ²	Oil-resistant machine control	4 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.4 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 4 core with PE 2.5 mm ²	Oil-resistant machine control	4 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.2 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 5 core with PE	Oil-resistant machine control	5 core with PE	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	10.7 mm

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control 5 core with PE 0.5 mm ²						
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 5 core with PE 0.75 mm ²	Oil-resistant machine control	5 core with PE	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	11.0 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 5 core with PE 1.0 mm ²	Oil-resistant machine control	5 core with PE	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	11.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 5 core with PE 1.5 mm ²	Oil-resistant machine control	5 core with PE	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	11.8 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 5 core with PE 2.5 mm ²	Oil-resistant machine control	5 core with PE	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	12.5 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 7 core 0.5 mm ²	Oil-resistant machine control	7 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	11.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 7 core 0.75 mm ²	Oil-resistant machine control	7 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	11.6 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 7 core 1.0 mm ²	Oil-resistant machine control	7 core	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	11.9 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 7 core 1.5 mm ²	Oil-resistant machine control	7 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	12.4 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 7 core 2.5 mm ²	Oil-resistant machine control	7 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	13.1 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 12 core 0.5 mm ²	Oil-resistant machine control	12 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	12.4 mm

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H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 12 core 0.75 mm ²	Oil-resistant machine control	12 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	12.8 mm
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H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 12 core 2.5 mm ²	Oil-resistant machine control	12 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	14.3 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 18 core 0.5 mm ²	Oil-resistant machine control	18 core	0.5 mm ²	39.0 Ω/km	Control cable without EMC screen	13.6 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 18 core 0.75 mm ²	Oil-resistant machine control	18 core	0.75 mm ²	26.0 Ω/km	Control cable without EMC screen	13.9 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 18 core 1.0 mm ²	Oil-resistant machine control	18 core	1.0 mm ²	19.5 Ω/km	Control cable without EMC screen	14.2 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 18 core 1.5 mm ²	Oil-resistant machine control	18 core	1.5 mm ²	13.3 Ω/km	Control cable without EMC screen	14.7 mm
H05VV5-F oil resistant control cable 300/500 V Oil-resistant machine control 18 core 2.5 mm ²	Oil-resistant machine control	18 core	2.5 mm ²	7.98 Ω/km	Control cable without EMC screen	15.5 mm