

Datasheet

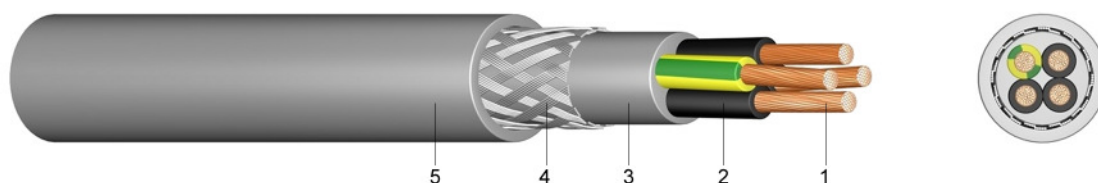
Version 1/2009

H05VVC4V5-K PVC Control Cable with Copper Braiding UL/CSA with UL and CSA Approbation (UL-Style 2587), Oil Resistant

Application:

Suitable for dry, damp and wet locations but not in the open-air. It is used as a screened termination and connection cable in the control, measuring and signal technology. The copper braiding optimises protection against external interferences, like electromagnetic fields and stray frequencies. Suitable as a signal and impulse cable for control and inspection of industrial plants, machinery and working processes.

For the connection of production machinery and machine tools. The lines may move after installation, provided the lines are not overloaded mechanically.



Construction:

- 1 fine-stranded bare copper
- 2 core insulation of special polyvinylchloride (PVC)
- 3 inner sheath of special polyvinylchloride (PVC)
- 4 braiding of tinned copper wires
- 5 outer sheath of special polyvinylchloride (PVC), grey

Information:

- 0,50 mm² is equivalent to app. AWG 20 (0,519mm²)
- 0,75 mm² is equivalent to app. AWG 18 (0,823mm²)
- 1,00 mm² is equivalent to app. AWG 17 (1,040mm²)
- 1,50 mm² is equivalent to app. AWG 15 (1,650mm²)
- 2,50 mm² is equivalent to app. AWG 13 (2,630mm²)

According to:

- DIN VDE 0281-13, HD 21.13.S1
- UL/CSA (UL-Style 2587)
- DIN EN 60228 class 5 (construction)
- core identification: 1 core green/yellow, other cores black with figures

Technical data:

Nominal voltage U ₀ /U		[V]	600 Volt
Test voltage		[V] _{AC}	3000
Temperature range	in motion		-5°C till +90°C
	fixed		-40°C till +90°C
Operating temperature	short circuit	°C	150
Short circuit time	max.	[sec]	5
Bending radius	one time / fixed	x diameter	12,5
Bending radius	in motion	x diameter	15,0
Oil-resistant	standard		EN 60811-2-1
Flammability	standard		EN 60332-1-2
Insulation resistance	min.	[MΩm/km]	20

Number of cores and nominal cross section mm ²	Copper figure kg/km	Cond. construction (appr. value) mm	Overall diameter mm	Weight appr. kg / km
3 G 0,75	53	24 x 0,21	8,8	125
4 G 0,75	66	24 x 0,21	9,6	147
5 G 0,75	82	24 x 0,21	10,3	172

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Number of cores and nominal cross section mm ²	Copper figure kg/km	Cond. construction (appr. value) mm	Overall diameter mm	Weight appr. kg / km
7 G 0,75	112	24 x 0,21	12,2	235
12 G 0,75	168	24 x 0,21	14,5	354
18 G 0,75	229	24 x 0,21	16,9	478
3 G 1	78	32 x 0,21	9,3	140
4 G 1	90	32 x 0,21	9,9	165
5 G 1	106	32 x 0,21	10,9	195
7 G 1	132	32 x 0,21	12,9	271
12 G 1	202	32 x 0,21	15,4	405
18 G 1	276	32 x 0,21	17,7	548
3 G 1,5	99	30 x 0,26	10,4	180
4 G 1,5	121	30 x 0,26	11,3	217
5 G 1,5	135	30 x 0,26	12,6	267
7 G 1,5	175	30 x 0,26	14,9	379
12 G 1,5	265	30 x 0,26	17,6	538
18 G 1,5	400	30 x 0,26	20,5	743
3 G 2,5	154	50 x 0,26	12,0	246
4 G 2,5	170	50 x 0,26	13,3	316
5 G 2,5	208	50 x 0,26	14,6	383