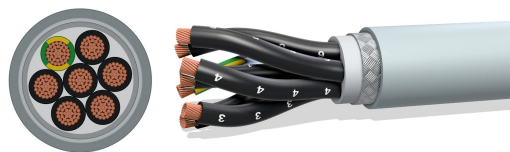


Application

H05VVC4V5-K is a harmonised, flexible PVC control cable with an overall tinned-copper braid screen and an oil-resistant PVC outer sheath, built to EN 50525-2-51. It is intended for control, signal and measuring circuits in machinery, machine tools, production and packaging lines, and in control cabinets where interference from or into the cable has to be limited. The cable is suitable for fixed installation and for occasional, free movement without tensile load, in dry, damp and wet indoor locations and where mineral oils, greases or lubricants are present. It is not intended for continuous flexing, drag-chain use, outdoor or direct-burial installation.



CONSTRUCTION

Conductor	Fine-wire stranded bare copper, class 5 to IEC/EN 60228.
Insulation	PVC (compound TI2).
Inner sheath	PVC (compound TM2), grey.
Screen	Tinned copper wire braid over the inner sheath.
Outer sheath	Oil-resistant PVC (compound TM5), grey.
Core identification	Black cores with white numbers; from 3 cores with green/yellow earth core (G) in the outer layer. 2-core versions without green/yellow (X).

ELECTRICAL & THERMAL PROPERTIES

Rated voltage Uo/U	300/500 V.
Test voltage	2 kV.
Standard	EN 50525-2-51.
Flame-retardant	IEC/EN 60332-1-2.
Oil-resistant	Yes; oil-resistant PVC outer sheath.
Conductor standard	IEC/EN 60228 class 5.
Max. conductor temperature	+70 °C.
Permitted outer cable temperature, fixed	-40 °C to +70 °C.
Permitted outer cable temperature, flexing	-5 °C to +70 °C.
Min. bending radius, fixed	6 × outer diameter.
Min. bending radius, flexing	20 × outer diameter.
Insulation resistance	min. 20 MΩ·km.
Reaction to fire (CPR)	Outside the scope of EN 50575 (flexible connection cable, not for permanent installation in construction works).

DIMENSIONS & TECHNICAL DATA

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
2 × 0.5	39	8.1	90
3 × 0.5	39	8.4	109
4 × 0.5	39	9.1	126
5 × 0.5	39	10.1	156
6 × 0.5	39	10.7	176
7 × 0.5	39	11.4	199
8 × 0.5	39	12.5	211
9 × 0.5	39	12.5	230
12 × 0.5	39	13.5	280
14 × 0.5	39	14.2	302
18 × 0.5	39	15.8	400
25 × 0.5	39	18.6	554
27 × 0.5	39	18.6	599
34 × 0.5	39	20.8	649
36 × 0.5	39	20.8	620
41 × 0.5	39	23.1	770
42 × 0.5	39	23.1	720
50 × 0.5	39	25.1	966
61 × 0.5	39	26.8	1122
65 × 0.5	39	28.4	1198
3 × 0.75	26	9.1	125
4 × 0.75	26	10.3	150
5 × 0.75	26	11	180
7 × 0.75	26	12.4	230
12 × 0.75	26	15.2	310
18 × 0.75	26	18.2	470
25 × 0.75	26	21.5	640
3 × 1	19.5	9.6	140
4 × 1	19.5	10.7	170
5 × 1	19.5	11.4	200
7 × 1	19.5	12.9	230
12 × 1	19.5	16.9	410
18 × 1	19.5	19.4	550
25 × 1	19.5	22.8	735
34 × 1	19.5	24.1	920
36 × 1	19.5	23.8	1001
48 × 1	19.5	n/a	1270
50 × 1	19.5	28.9	1290
65 × 1	19.5	32.4	1510
2 × 1.5	13.3	9.3	143
18 × 1.5	13.3	20.8	680
25 × 1.5	13.3	25	930
34 × 1.5	13.3	26.3	1353
3 × 2.5	7.98	12	240
4 × 2.5	7.98	13.1	290

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
5 × 2.5	7.98	14.2	340
7 × 2.5	7.98	16.3	465
12 × 2.5	7.98	20.6	748
18 × 2.5	7.98	25.6	1051
25 × 2.5	7.98	29.3	1380

Extended range (additional reference source)

Cores × mm ²	Cond. R @20°C (Ω/km)	Nominal O.D. (mm)	Weight (kg/km)
34 × 0.75	26	23.1	790
50 × 0.75	26	27.0	1065
50 × 1.5	13.3	34.0	1660
61 × 1.5	13.3	36.5	1850
34 × 2.5	7.98	33.0	1820
50 × 2.5	7.98	38.5	2580
61 × 2.5	7.98	42.0	3085

Dimensions and weights are nominal manufacturer values of the leading reference source; conductor resistance is the maximum per IEC/EN 60228 class 5; all values are indicative and non-binding.