

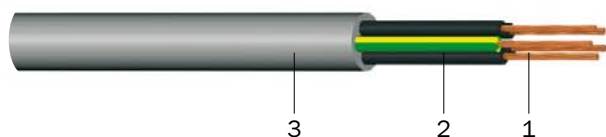
# H05VV5-F

**Control cable, unshielded**

**Standard: DIN VDE 0281 (HD 21)**

### Application:

For the electrical interconnection of components of production facilities and machine tools. Resistant against universal mineral oil. This cable is intended for indoor use and should be installed mechanically protected.



### Construction:

- 1 Copper conductor, fine wire
- 2 Insulation (PVC), cores stranded in layers
- 3 Sheath (PVC grey RAL 7001), oil resistant



**Rated voltage:** 300/500 V



**Test voltage:** 2000 Veff



**Temperature range:**

During installation: min. +5 °C  
Operating temperature: fixed -20 °C to +50 °C  
moved +5 °C to +50 °C

Conductor temperature: max. +60 °C

Short circuit temperature  
of the conductor: max. +150 °C/5 s



**Bending radius (min.):** 4 x Ø of the cable



**Core identification:**

black with white numbers, PE-conductor gnye (outer layer)



**Flammability:**

Self extinguishing (EN 50265-2-1,  
IEC 60332-1)



**Certification mark:** VDE Germany

Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Outer diameter (mm) appr.	Cu- value (kg/km)	Total weight (kg/km) appr.	Standard lengths/ packing (m)	Price (EUR/km)
<b>H05VV5-F</b>						
2 X 0.75	26.00	6.5	15.0	50	500 Sp, 1000 Sp	562.03
2 X 1	19.50	7.0	20.0	65	500 Sp, 1000 Sp	716.49
2 X 1.5	13.30	7.5	30.0	80	500 Sp, 1000 Sp	833.63
3 G 0.75	26.00	7.0	22.5	61	500 Sp, 1000 Sp	715.68
4 G 0.75	26.00	7.3	30.0	75	500 Sp, 1000 Sp	890.16
5 G 0.75	26.00	8.5	37.5	100	500 Sp, 1000 Sp	1,274.45
7 G 0.75	26.00	10.0	52.5	141	500 Sp, 1000 Sp	1,917.08
12 G 0.75	26.00	12.5	90.0	214	500 T, 1000 T	2,685.22
18 G 0.75	26.00	13.0	135.0	285	500 T, 1000 T	3,603.29
25 G 0.75	26.00	17.0	187.5	427	500 T, 1000 T	5,478.62
34 G 0.75	26.00	20.5	255.0	590	500 T, 1000 T	7,046.41
50 G 0.75	26.00	23.0	375.0	807	500 T, 1000 T	10,111.97
61 G 0.75	26.00	26.5	457.5	970	500 T, 1000 T	12,251.32
3 G 1	19.50	7.3	30.0	71	500 Sp, 1000 Sp	837.92
4 G 1	19.50	7.8	40.0	89	500 Sp, 1000 Sp	1,023.33
5 G 1	19.50	9.0	50.0	116	500 Sp, 1000 Sp	1,480.67
7 G 1	19.50	10.5	70.0	166	500 Sp, 1000 Sp	2,287.08

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Number of cores x nominal cross section (mm <sup>2</sup> )	Max. conductor resistance (Ω/km)	Outer diameter (mm) appr.	Cu- value (kg/km)	Total weight (kg/km) appr.	Standard lengths/ packing (m)	Price (EUR/km)
<b>H05VV5-F</b>						
12 G 1	19.50	13.0	120.0	251	500 T, 1000 T	3,104.31
18 G 1	19.50	16.0	180.0	385	500 T, 1000 T	4,640.68
25 G 1	19.50	19.5	250.0	534	500 T, 1000 T	6,445.53
34 G 1	19.50	22.0	340.0	700	500 T, 1000 T	8,184.89
50 G 1	19.50	26.0	500.0	993	500 T, 1000 T	11,749.55
61 G 1	19.50	28.5	610.0	1,175	500 T, 1000 T	14,333.58
3 G 1.5	13.30	8.0	45.0	92	500 Sp, 1000 Sp	1,019.37
4 G 1.5	13.30	8.5	60.0	125	500 Sp, 1000 Sp	1,326.67
5 G 1.5	13.30	9.5	75.0	155	500 Sp, 1000 Sp	1,759.95
7 G 1.5	13.30	11.5	105.0	227	500 Sp, 1000 Sp	2,657.20
12 G 1.5	13.30	14.5	180.0	330	500 T, 1000 T	3,938.85
18 G 1.5	13.30	17.4	270.0	506	500 T, 1000 T	5,659.95
25 G 1.5	13.30	21.0	375.0	700	500 T, 1000 T	9,075.15
34 G 1.5	13.30	23.0	510.0	860	500 T, 1000 T	9,706.97
50 G 1.5	13.30	28.0	750.0	1,320	500 T, 1000 T	14,155.74
61 G 1.5	13.30	29.0	915.0	1,450	500 T, 1000 T	17,513.36
3 G 2.5	7.98	9.7	75.0	146	500 Sp, 1000 Sp	1,679.34
4 G 2.5	7.98	10.0	100.0	180	500 Sp, 1000 Sp	2,136.58
5 G 2.5	7.98	11.5	125.0	235	500 Sp, 1000 Sp	2,566.47
7 G 2.5	7.98	13.0	175.0	343	500 T, 1000 T	3,949.09
12 G 2.5	7.98	17.5	300.0	535	500 T, 1000 T	5,572.71
18 G 2.5	7.98	21.0	450.0	800	500 T, 1000 T	8,663.05
25 G 2.5	7.98	27.0	625.0	993	500 T, 1000 T	11,505.18

Subject to technical changes. All figures are therefore without guarantee.