

H05VV5-F PVC Control Cable Oil Resistant

Application:

In dry and wet locations for low and medium-level mechanical stress, but not in the open-air. To be used as a termination and connection cable in the control, measuring and signal technology. Suitable as a signal and impulse cable for control and inspection of industrial plants, production lines and machinery. 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 polyvinylchloride (PVC-mixture YI2)
- 3 outer sheath of polyvinylchloride (PVC-mixture YM2), grey

According to:

DIN VDE 0281-part 13
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]	300 / 500 Volt
Test voltage		[V] _{AC}	2000
Temperature range	in motion		-5 °C till +70 °C
	fixed		-40 °C till +70 °C
Operating temperature	short circuit	°C	150
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

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
2 X 0,75	15,0	24 x 0,21	6,1	55
3 G 0,75	22,5	24 x 0,21	6,6	66
4 G 0,75	30,0	24 x 0,21	7,3	83
5 G 0,75	37,5	24 x 0,21	8,1	102
7 G 0,75	52,5	24 x 0,21	8,9	129
12 G 0,75	90,0	24 x 0,21	11,9	227
18 G 0,75	135,0	24 x 0,21	14,2	329
25 G 0,75	187,5	24 x 0,21	16,5	449
34 G 0,75	255,0	24 x 0,21	19,2	609
50 G 0,75 *	375,0	24 x 0,21	23,2	893
2 X 1	20,0	32 x 0,21	6,5	63
3 G 1	30,0	32 x 0,21	6,9	77
4 G 1	40,0	32 x 0,21	7,7	97
5 G 1	50,0	32 x 0,21	8,5	120
7 G 1	70,0	32 x 0,21	9,4	152
12 G 1	120,0	32 x 0,21	12,6	268
18 G 1	180,0	32 x 0,21	15,0	389
25 G 1	250,0	32 x 0,21	17,5	533
34 G 1	340,0	32 x 0,21	20,4	721

Datasheet

Version 1/2009

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
2 X 1,5 *	30,0	30 x 0,26	7,6	90
3 G 1,5	45,0	30 x 0,26	8,2	110
4 G 1,5	60,0	30 x 0,26	9,1	138
5 G 1,5	75,0	30 x 0,26	10,1	172
7 G 1,5	105,0	30 x 0,26	11,1	219
12 G 1,5	180,0	30 x 0,26	14,9	388
18 G 1,5	270,0	30 x 0,26	17,9	565
25 G 1,5	375,0	30 x 0,26	20,9	775
34 G 1,5	510,0	30 x 0,26	24,3	1.051
3 G 2,5	75,0	50 x 0,26	9,7	162
4 G 2,5	100,0	50 x 0,26	10,7	205
5 G 2,5	125,0	50 x 0,26	12,0	256
7 G 2,5	175,0	50 x 0,26	13,2	328
12 G 2,5	300,0	50 x 0,26	17,8	581
18 G 2,5	450,0	50 x 0,26	21,3	848
34 G 2,5	850,0	50 x 0,26	29,0	1.584
4 G 4 *	160,0	56 x 0,31	11,6	280
5 G 4 *	200,0	56 x 0,31	14,1	340
7 G 4 *	280,0	56 x 0,31	15,1	445
4 G 6 *	240,0	84 x 0,31	16,8	450
5 G 6 *	300,0	84 x 0,31	18,4	550

* adapted to DIN VDE