We Make Modern
Life Possible.

CONTROL AND ELECTRONIC CABLES

H05VV5-F

PVC control cable, oil resistant, unscreened

PVC control cable with increased oil resistant outer sheath for use as control and connecting cable for fixed laying and flexible applications in electrical devices, without tensile stress and/or guided movements. The cables are intended for indoor applications in
dry, damp and wet rooms.



TECHNICAL DATA

Standard
EN 50525-2-51

Test Voltage
2 kV / 50 Hz

Rated Voltage
300/500 V (Uo/U)

Bending radius (min.)
3 x Ø up to 12 mm (fixed installed)
4 x Ø over 12 mm (fixed installed)
5 x Ø up to 12 mm (free motion)
6 x Ø over 12 mm (free motion)

Fire properties
EN 60332-1-2: self-extinguishing and flame retardant
CPR classification: Eca

Core identification
colours according to CENELEC HD 308 S2

Temperature range
Laying temperature: min. 5°C
Operating temperature: 5°C up to 50°C
Conductor temperature: max. 70°C
Short circuit temperature: max. 150°C
Fixed installation: -30°C up to 70°C
Flexible use: -5°C up to 70°C

DESIGN



1. Copper conductor, fine wire (–F)
2. Core insulation (PVC), cores stranded in layers
3. Sheath (PVC grey RAL 7001, oil resistant)

Number of cores x nominal cross-section (mm^2)	Max. conductor resistance (Ω/km)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
2 x 0,75	26.0	5.8	57
3 G 0,75	26.0	6.2	67
4 G 0,75	26.0	6.7	79
5 G 0,75	26.0	7.7	97
7 G 0,75	26.0	8.5	130
10 G 0,75	26.0	11.0	200
12 G 0,75	26.0	11.5	230
14 G 0,75	26.0	12.0	260
16 G 0,75	26.0	13.0	290
19 G 0,75	26.0	14.0	340
2 x 1	19.5	6.2	64
3 G 1	19.5	6.6	76
4 G 1	19.5	7.4	96
5 G 1	19.5	8.1	112
7 G 1	19.5	9.0	136
10 G 1	19.5	11.7	210
12 G 1	19.5	12.1	233
14 G 1	19.5	13.0	300
16 G 1	19.5	13.9	307
19 G 1	19.5	14.5	349
2 x 1,5	13.3	7.1	86
3 G 1,5	13.3	7.6	107
3 x 1,5	13.3	7.6	107
4 G 1,5	13.3	8.5	132
5 G 1,5	13.3	9.5	165
7 G 1,5	13.3	10.6	189
10 G 1,5	13.3	13.7	286
14 G 1,5	13.3	14.9	363
16 G 1,5	13.3	16.0	463
19 G 1,5	13.3	16.4	480
2 x 2,5	7.98	8.8	129
3 G 2,5	7.98	9.3	154
3 x 2,5	7.98	9.3	154
4 G 2,5	7.98	10.4	195
5 G 2,5	7.98	11.7	239
7 G 2,5	7.98	13.0	294
10 G 2,5	7.98	16.5	431
12 G 2,5	7.98	17.5	564
14 G 2,5	7.98	18.3	570
16 G 2,5	7.98	20.0	750
19 G 2,5	7.98	20.0	750
4 G 4	4.95	12.0	283
5 G 4	4.95	13.3	320
4 G 6	3.3	14.7	379

Number of cores x nominal cross-section (mm²)	Max. conductor resistance (Ω/km)	Outer diameter appr. (mm)	Total weight appr. (kg/km)
5 G 6	3.3	16.0	470
3 G 0,5	39.0	6.2	54
4 G 0,5	39.0	6.7	65
5 G 0,5	39.0	7.4	80
7 G 0,5	39.0	9.1	119
10 G 0,5	39.0	10.8	166
12 G 0,5	39.0	11.2	186
14 G 0,5	39.0	11.7	215
18 G 0,5	39.0	13.0	251
25 G 0,5	39.0	16.0	349
34 G 0,5	39.0	17.7	480

Technical changes reserved. All figures are therefore without guarantee.

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