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CONTROL AND ELECTRONIC CABLES

H05VV5-F

PVC control cable, oil resistant, unscreened



TECHNICAL DATA



Standard
EN 50525-2-51



Test Voltage
2 kV / 50 Hz



Rated Voltage
300/500 V (U₀/U)



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

6 x ϕ 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



Copper conductor, fine wire (-F)



Core insulation (PVC), cores stranded in layers



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 (mm ²)	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

CONTACT PERSON

Dogan Özcan, MSc
 Head of Technical Department
 +43 (0) 1 70170-154
 dogan.oezcan@skw.at

