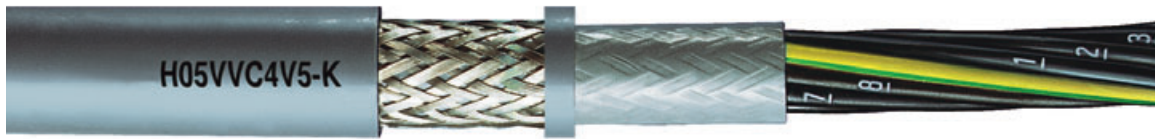


H05VVC4V5-K

Flexible, harmonized control cable with overall copper braided screening and oil-resistant outer sheath to HD 21 part 13 S; preferred EMC compatible cable type



Applications

Control cable with overall copper braided screening for stationary installation or flexible applications. Used as measuring and control cable in machine tool manufacturing, plant engineering and on assembly and production lines.

Suitable for unrestricted mobility without forced movement control and without exposure to tensile load.

Used as energy or connection cable in dry, damp and wet environments to meet stringent safety requirements.

When used for outdoor applications, adequate protection against direct exposure to sunlight must be ensured and the specified temperature limits must be observed.

These cables with copper screening are ideal for interference-free data and signal transmission in measuring and control technology.

Design

- Stranded bare Cu conductor, fine wire
- Strand structure to VDE 0295, class 5 / IEC 60228 class 5
- Core insulation: special PVC
- Core identification: black cores with printed consecutive number coding
- Green-yellow protective conductor (3 cores and over) in the outer layer
- Cores twisted in layers, with optimal lay lengths
- Inner jacket: special PVC
- Tinned copper braided screening
- Outer sheath: special PVC
- Sheath colour: RAL 7001 grey

Electrical and technical specifications

Rated voltage:
U_o/U 300/500 V

Test voltage: 3000 V

Insulation resistance at +20° C:
≥ 20 MΩm x km

Bending radius: 20 x cable diameter

Temperature range:
flexible - 5° C to +70° C
stationary -40° C to +70° C

Flame retardant to IEC 60332-1

Enhanced oil resistance of outer sheath

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
2x0.5 OZ	32.0	8.1	87
3G0.5	42.0	8.6	100
4G0.5	51.0	9.0	120
5G0.5	60.0	10.3	140
7G0.5	75.0	11.2	198
12G0.5	136.0	13.6	268
18G0.5	168.0	16.0	391
25G0.5	250.0	19.1	543
34G0.5	298.0	20.5	625
42G0.5	349.0	24.4	720
50G0.5	470.0	25.3	885
2x0.75 OZ	46.0	8.0	100
3G0.75	51.0	9.1	113
4G0.75	63.0	9.2	148
5G0.75	79.0	10.6	170
7G0.75	107.0	12.4	227
12G0.75	162.0	14.4	310
18G0.75	220.0	16.7	478
25G0.75	278.0	19.8	620
34G0.75	379.0	22.0	810
42G0.75	462.0	26.6	990
50G0.75	535.0	27.1	1075
60G0.75	595.0	29.4	1260
61G0.75	689.0	29.8	1380

Cross-section mm ²	Cu content kg/km	Outer diameter approx. mm	Weight approx. kg/km
2x1.0 OZ	46.0	9.1	108
3G1.0	75.0	9.7	134
4G1.0	86.0	10.4	167
5G1.0	102.0	11.4	194
7G1.0	127.0	13.0	256
12G1.0	194.0	15.8	405
18G1.0	265.0	18.0	588
25G1.0	352.0	20.7	730
34G1.0	491.0	22.5	945
42G1.0	578.0	28.6	1190
50G1.0	736.0	28.9	1270
60G1.0	770.0	31.0	1480
61G1.0	789.0	31.0	1490
2x1.5 OZ	69.0	9.4	138
3G1.5	95.0	9.7	166
4G1.5	116.0	10.7	204
5G1.5	130.0	12.9	236
7G1.5	168.0	15.0	318
12G1.5	255.0	17.2	490
18G1.5	385.0	21.9	690
25G1.5	514.0	24.8	940
34G1.5	723.0	26.7	1180
42G1.5	823.0	30.8	1455
50G1.5	1025.0	34.3	1660
61G1.5	1238.0	36.1	1900
2x2.5 OZ	96.0	11.6	185
3G2.5	148.0	12.2	230
4G2.5	163.0	13.4	280
5G2.5	200.0	14.9	330
7G2.5	255.0	16.0	480
12G2.5	409.0	20.8	730
18G2.5	598.0	25.6	1050
25G2.5	848.0	29.3	1390
34G2.5	1153.0	33.6	1790

OZ = without protective conductor, printed number coding