

# H05VVC4V5-K

Flexible screened cables, number coded cores, VDE approved, EMC\*



## Cable structure

- Stranded bare copper core according to DIN VDE 0295 and IEC 60228 cl. 5
- Core insulation of special PVC TI2 according to DIN VDE 0281 part 1
- Cores stranded in layers, black cores with repeated white numbering according to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and more)
- Inner sheath of special PVC according to DIN VDE 0281 part 1
- Screening of tinned copper wires, approx. coverage 85%
- Outer sheath of special PVC TM5 according to DIN VDE 0281 part 1, HD 21.1S2/A16, color grey
- PVC self-extinguishing and flame retardant, according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ IEC 60332-1

## Technical data

- Control cable with special PVC outer sheath, resistant to oils according to DIN VDE 0281 part 13, HD 21.13 S1 and IEC 60227/74
- **Temperature range** flexing from -5 °C to +70 °C  
fixed from -40 °C to +70 °C
- **Nominal voltage**  $U_0/U$  300/500 V
- **Spark test** 6000 V
- **Test voltage a.c.** core/core 2000 V 5 min  
core/screen 2000 V 5 min
- **Insulation resistance** min. 20 M $\Omega$   $\times$  km
- **Minimum bending radius** approx. 10 $\times$  cable diameter
- **Radiation resistance** up to 80 $\times$ 10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Application

These cables are used for flexible application for medium mechanical stress with free movement, but without tensile stress or forced movements in dry, moist and wet areas. These cables are not suitable for open air use. They are designed for application in measuring, controlling, cutting tools and assembly lines. These cables were tested according to DIN VDE 0207 and 0473 and were approved to be fully resistant to oils and are not effected by chemical influences. Cables for moist and wet areas, particularly used for machines in breweries, bottling plants as well as car washing stations.

## Note

- \*EMC = Electromagnetic compatibility - recommended type
- CE = the product is conformed with the EC Low-Voltage Directive 73/23/EEC
- OZ = version without green-yellow earth core
- Conforms to RoHS.

Part No.	Number of cores $\times$ core cross-section [mm <sup>2</sup> ]	Approx. outer $\varnothing$ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0213951 OZ	2 $\times$ 0,5	8,0	30	92
0213060	3 G 0,5	8,4	36	109
0213061	4 G 0,5	9,1	42	126
0213062	5 G 0,5	10,1	48	156
0213063	6 G 0,5	10,7	58	176
0213064	7 G 0,5	11,4	64	192
0213952	8 G 0,5	12,5	72	211
0213065	9 G 0,5	12,5	80	230
0213066	12 G 0,5	13,5	105	280
0213953	14 G 0,5	14,2	114	302
0213067	18 G 0,5	15,8	137	384
0213068	25 G 0,5	18,6	210	556
0213954	27 G 0,5	18,6	236	599
0213069	34 G 0,5	20,8	298	634
0213955	36 G 0,5	20,8	317	620
0213129	41 G 0,5	23,0	349	770
0213070	50 G 0,5	25,0	470	970
0213071	61 G 0,5	26,8	530	1072
0213956	65 G 0,5	28,4	563	1198
0213957 OZ	2 $\times$ 0,75	8,3	41	102
0213072	3 G 0,75	8,8	48	115
0213073	4 G 0,75	9,8	55	150
0213074	5 G 0,75	10,8	66	173
0213075	6 G 0,75	11,4	75	195
0213076	7 G 0,75	12,1	85	235
0213958	8 G 0,75	12,7	98	268
0213077	9 G 0,75	13,8	112	285
0213078	12 G 0,75	14,3	135	327
0213959	14 G 0,75	14,4	151	362

Part No.	Number of cores $\times$ core cross-section [mm <sup>2</sup> ]	Approx. outer $\varnothing$ [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0213079	18 G 0,75	16,9	190	488
0213080	25 $\times$ 0,75	20,0	275	654
0213960	27 G 0,75	20,0	316	708
0213081	34 G 0,75	22,1	340	821
0213961	36 G 0,75	22,1	358	899
0213130	41 G 0,75	23,9	390	970
0213082	50 G 0,75	26,8	582	1160
0213083	61 G 0,75	29,4	679	1402
0213962	65 G 0,75	31,2	708	1504
0213963 OZ	2 $\times$ 1	8,6	48	114
0213084	3 G 1	9,3	59	142
0213085	4 G 1	10,2	70	175
0213086	5 G 1	11,0	84	205
0213087	6 G 1	11,8	88	236
0213088	7 G 1	12,9	106	264
0213964	8 G 1	13,6	121	301
0213089	9 G 1	14,4	136	335
0213090	12 G 1	15,6	174	420
0213965	14 G 1	15,7	198	433
0213091	18 G 1	17,4	240	561
0213966	19 G 1	17,4	251	584
0213092	25 G 1	21,1	332	766
0213967	27 G 1	21,9	380	822
0213093	34 G 1	24,1	420	996
0213968	36 G 1	24,2	441	1001
0213969	37 G 1	25,1	452	1018
0213131	41 G 1	26,0	578	1155
0213094	50 G 1	28,5	728	1300

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Part No.	Number of cores x core cross-section [mm <sup>2</sup> ]	Approx. outer Ø [mm]	Copper weight [kg/km]	Approx. cable weight [kg/km]
0213095	61 G 1	30,1	883	1500
0213970	65 G 1	32,4	914	1510
0213971 OZ	2 × 1,5	9,1	69	146
0213096	3 G 1,5	10,2	75	176
0213097	4 G 1,5	10,9	90	207
0213098	5 G 1,5	11,6	108	235
0213099	6 G 1,5	12,4	130	279
0213100	7 G 1,5	13,5	157	314
0213972	8 G 1,5	15,6	173	345
0213101	9 G 1,5	15,6	185	380
0213102	12 G 1,5	16,8	240	500
0213973	14 G 1,5	18,3	283	560
0213103	18 G 1,5	20,0	355	707
0213974	19 G 1,5	20,4	366	723
0213104	25 G 1,5	24,2	448	950
0213975	27 G 1,5	24,6	516	1014
0213105	32 G 1,5	26,0	702	1133
0213106	34 G 1,5	26,3	754	1204
0213976	36 G 1,5	27,7	778	1261
0213977	37 G 1,5	27,7	790	1300
0213132	41 G 1,5	29,1	805	1453
0213107	50 G 1,5	34,0	1033	1663
0213108	61 G 1,5	36,5	1238	1852
0213978	65 G 1,5	38,1	1296	1971
0213985 OZ	2 × 2,5	11,4	81	190
0213109	3 G 2,5	11,7	104	243
0213110	4 G 2,5	12,8	134	280
0213111	5 G 2,5	13,9	175	342
0213112	7 G 2,5	15,9	225	439
0213979	8 G 2,5	18,7	289	489
0213113	12 G 2,5	20,6	375	760
0213980	14 G 2,5	22,5	415	890
0213114	18 G 2,5	24,3	522	1052
0213115	25 G 2,5	29,0	897	1375
0213981	27 G 2,5	29,8	971	1507
0213116	34 G 2,5	33,0	1179	1892
0213982	36 G 2,5	33,3	1268	1998
0213983	41 G 2,5	36,0	1473	2286
0213117	50 G 2,5	38,5	1660	2673
0213118	61 G 2,5	42,0	1992	3085