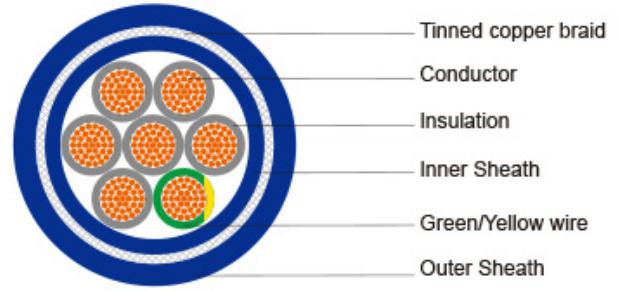


**German Standard Industrial Cables H05VVC4V5-K**



**Application and Description**

These cables are suitable for dry, damp and wet locations but not in the open-air. They are used as screened termination and connection cable in the control, measuring and signal technology. The copper braiding optimises protection against external interferences, like electromagnetic fields and stray frequencies. Suitable as a signal and impulse cable for control and inspection of industrial plants, machinery and working processes.

**Standard and Approval**

HD 21.13 S1  
VDE-0281 Part-13  
CEI 20-20/13  
CEI 20-35 (EN60332-1)  
CEI 20-52  
UL 2464

**Cable Construction**

Fine bare copper strands  
Strands to VDE-0295 Class-5, IEC 60228 Class-5  
PVC insulation T12 to DIN VDE 0281 part 1  
Green-yellow grounding (3 conductors and above)  
Cores to VDE-0293 colors  
PVC inner sheath TM2 to DIN VDE 0281 part 1  
Tinned copper braided shielding, covering approx. 85%  
PVC outer jacket TM5 to DIN VDE 0281 part 1

**Technical Characteristics**

WORKING VOLTAGE: 300/500v  
TEST VOLTAGE: 2000volts  
FLEXING BENDING RADIUS: 10 x Ø  
STATIC BENDING RADIUS: 5 x Ø  
FLEXING TEMPERATURE: -5 °C to +70 °C  
STATIC TEMPERATURE: -40 °C to +70 °C  
FLAME RETARDANT: IEC 60332.1  
INSULATION RESISTANCE: 20 MΩ x km

**Cable Parameter**

AWG	NO. OF CORES X NOMINAL CROSS SECTIONAL AREA	NOMINAL THICKNESS OF INSULATION	NOMINAL THICKNESS OF INNER SHEATH	NOMINAL THICKNESS OF OUTER SHEATH	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM <sup>2</sup>	MM	MM	MM	MM	KG/KM	KG/KM

20(16/32)	2 x 0,50	0.6	0.7	0.9	7,7	35	105
18(24/32)	2 x 0,75	0.6	0.7	0.9	8	39	115
17(32/32)	2 x 1,0	0.6	0.7	0.9	8,2	44	125
16(30/30)	2 x 1,50	0.7	0.7	1.0	9,3	58	160
14(50/30)	2 x 2,50	0.8	0.7	1.1	10,7	82	215
20(16/32)	3 x 0,50	0.6	0.7	0.9	8	40	115
18(24/32)	3 x 0,75	0.6	0.7	0.9	8,3	47	125
17(32/32)	3 x 1,0	0.6	0.7	1.0	8,8	54	145
16(30/30)	3 x 1,50	0.7	0.7	1.0	9,7	73	185
14(50/30)	3 x 2,50	0.8	0.7	1.1	11,3	106	250
20(16/32)	4 x 0,50	0.6	0.7	0.9	8,5	44	125
18(24/32)	4 x 0,75	0.6	0.7	1.0	9,1	58	155
17(32/32)	4 x 1,0	0.6	0.7	1.0	9,4	68	170
16(30/30)	4 x 1,50	0.7	0.7	1.1	10,7	93	220
14(50/30)	4 x 2,50	0.8	0.8	1.2	12,6	135	305
20(16/32)	5 x 0,50	0.6	0.7	1.0	9,3	55	155
18(24/32)	5 x 0,75	0.6	0.7	1.1	9,7	66	175
17(32/32)	5 x 1,0	0.6	0.7	1.1	10,3	78	200
16(30/30)	5 x 1,50	0.7	0.8	1.2	11,8	106	265
14(50/30)	5 x 2,50	0.8	0.8	1.3	13,9	181	385
20(16/32)	7 x 0,50	0.6	0.7	1.1	10,8	69	205
18(24/32)	7 x 0,75	0.6	0.7	1.2	11,5	84	250
17(32/32)	7 x 1,0	0.6	0.8	1.2	12,2	107	275
16(30/30)	7 x 1,50	0.7	0.8	1.3	14,1	162	395
14(50/30)	7 x 2,50	0.8	0.8	1.5	16,5	238	525
20(16/32)	12 x 0,50	0.6	0.8	1.3	13,3	98	285
18(24/32)	12 x 0,75	0.6	0.8	1.3	13,9	125	330
17(32/32)	12 x 1,0	0.6	0.8	1.4	14,7	176	400
16(30/30)	12 x 1,50	0.7	0.8	1.5	16,7	243	525
14(50/30)	12 x 2,50	0.8	0.8	1.7	19,9	367	745
20(16/32)	18 x 0,50	0.6	0.9	1.3	18,6	147	385
18(24/32)	18 x 0,75	0.6	0.8	1.5	19,9	200	475
17(32/32)	18 x 1,0	0.6	0.8	1.5	20,8	243	525
16(30/30)	18 x 1,50	0.7	0.8	1.7	24,1	338	720
14(50/30)	18 x 2,50	0.8	0.9	2.0	28,5	555	1075
20(16/32)	25 x 0,50	0.6	0.8	1.6	22,1	199	505
18(24/32)	25 x 0,75	0.6	0.9	1.7	23,7	273	625
17(32/32)	25 x 1,0	0.6	0.9	1.7	24,7	351	723

16(30/30)	25 x 1,50	0.7	0.9	2.0	28,6	494	990
14(50/30)	25 x 2,50	0.8	1.0	2.3	34,5	792	1440
20(16/32)	36 x 0,50	0.6	0.9	1.7	24,7	317	620
18(24/32)	36 x 0,75	0.6	0.9	1.8	26,2	358	889
17(32/32)	36 x 1,0	0.6	0.9	1.9	27,6	438	910
16(30/50)	36 x 1,50	0.7	1.0	2.2	32,5	662	1305
14(30/32)	36 x 2,50	0.8	1.0	2.4	38,5	1028	1850
20(16/32)	48 x 0,50	0.6	0.9	1.9	28,3	353	845
18(24/32)	48 x 0,75	0.6	1.0	2.1	30,4	490	1060
17(32/32)	48 x 1,0	0.6	1.0	2.1	31,9	604	1210
16(30/30)	48 x 1,50	0.7	1.1	2.4	37	855	1665
14(50/30)	48 x 2,50	0.8	1.2	2.4	43,7	1389	2390
20(16/32)	60 x 0,50	0.6	1.0	2.1	31,1	432	1045
18(24/32)	60 x 0,75	0.6	1.0	2.3	32,9	576	1265
17(32/32)	60 x 1,0	0.6	1.0	2.3	34,7	720	1455
16(30/30)	60 x 1,50	0.7	1.1	2.4	39,9	1050	1990
14(50/30)	60 x 2,50	0.8	1.2	2.4	47,2	1706	2870