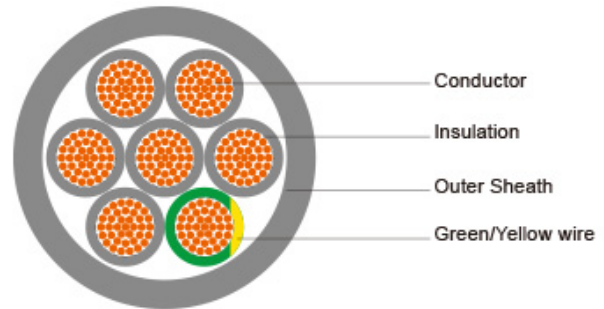


German Standard Industrial Cables H05VV5-F(NYSLYÖ-JZ)



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 sheath TM5 to DIN VDE 0281 part 1

Technical Characteristics

WORKING VOLTAGE: 300/500v
TEST VOLTAGE: 2000volts
FLEXING BENDING RADIUS: 7.5 x Ø
STATIC BENDING RADIUS: 4 x Ø
FLEXING TEMPERATURE: -5 °C to +70 °C
STATIC TEMPERATURE: -40 °C to +70 °C
SHORT CIRCUIT TEMPERATURE: +150 °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 SHEATH	NOMINAL OVERALL DIAMETER	NOMINAL COPPER WEIGHT	NOMINAL WEIGHT
	# X MM ²	MM	MM	MM	KG/KM	KG/KM
20(16/32)	2x0.50	0.6	0.7	5.6	9.7	46

18(24/32)	2x0.75	0.6	0.8	6.2	14.4	52
17(32/32)	2x1	0.6	0.8	6.6	19.2	66
16(30/30)	2x1.5	0.7	0.8	7.6	29	77
14(50/30)	2x2.5	0.8	0.9	9.2	48	110
20(16/32)	3x0.50	0.6	0.7	5.9	14.4	54
18(24/32)	3x0.75	0.6	0.8	6.6	21.6	68
17(32/32)	3x1	0.6	0.8	7	29	78
16(30/30)	3x1.5	0.7	0.9	8.2	43	97
14(50/30)	3x2.5	0.8	1	10	72	154
20(16/32)	4x0.50	0.6	0.8	6.6	19	65
18(24/32)	4x0.75	0.6	0.8	7.2	28.8	82
17(32/32)	4x1	0.6	0.8	7.8	38.4	104
16(30/30)	4x1.5	0.7	0.9	9.3	58	128
14(50/30)	4x2.5	0.8	1.1	10.9	96	212
20(16/32)	5x0.50	0.6	0.8	7.3	24	80
18(24/32)	5x0.75	0.6	0.9	8	36	107
17(32/32)	5x1	0.6	0.9	8.6	48	123
16(30/30)	5x1.5	0.7	1	10.3	72	149
14(50/30)	5x2.5	0.8	1.1	12.1	120	242
20(16/32)	6x0.50	0.6	0.9	8.1	28.8	104
18(24/32)	6x0.75	0.6	0.9	8.7	43.2	132
17(32/32)	6x1	0.6	1	9.5	58	152
16(30/30)	6x1.5	0.7	1.1	11.2	86	196
14(50/30)	6x2.5	0.8	1.2	13.2	144	292
20(16/32)	7x0.50	0.6	0.9	8.1	33.6	119
18(24/32)	7x0.75	0.6	1	8.9	50.5	145
17(32/32)	7x1	0.6	1	9.5	67	183
16(30/30)	7x1.5	0.7	1.2	11.4	101	216
14(50/30)	7x2.5	1.3	0.8	13.4	168	350
20(16/32)	12x0.50	0.6	1.1	10.9	58	186
18(24/32)	12x0.75	0.6	1.1	11.7	86	231
17(32/32)	12x1	0.6	1.2	12.8	115	269
16(30/30)	12x1.5	0.7	1.3	15	173	324
14(50/30)	12x2.5	1.5	0.8	17.9	288	543
20(16/32)	18x0.50	0.6	1.2	12.9	86	251
18(24/32)	18x0.75	0.6	1.3	14.1	130	313
17(32/32)	18x1	0.6	1.3	15.1	173	400
16(30/30)	18x1.5	0.7	1.5	18	259	485

14(50/30)	18x2.5	1.8	0.8	21.6	432	787
20(16/32)	25x0.50	0.6	1.4	15.4	120	349
18(24/32)	25x0.75	0.6	1.5	16.8	180	461
17(32/32)	25x1	0.6	1.5	18	240	546
16(30/30)	25x1.5	0.7	1.8	21.6	360	671
14(50/30)	25x2.5	0.8	2.1	25.8	600	1175
20(16/32)	36x0.50	0.6	1.5	17.7	172	510
18(24/32)	36x0.75	0.6	1.6	19.3	259	646
17(32/32)	36x1	0.6	1.7	20.9	346	775
16(30/30)	36x1.5	0.7	2	25	518	905
14(50/30)	36x2.5	0.8	2.3	29.8	864	1791
20(16/32)	50x0.50	0.6	1.7	21.5	240	658
18(24/32)	50x0.75	0.6	1.8	23.2	360	896
17(32/32)	50x1	0.6	1.9	24.5	480	1052
16(30/30)	50x1.5	0.7	2	28.9	720	1381
14(50/30)	50x2.5	0.8	2.3	35	600	1175
20(16/32)	61x0.50	0.6	1.8	23.1	293	780
18(24/32)	61x0.75	0.6	2	25.8	439	1030
17(32/32)	61x1	0.6	2.1	26	586	1265
16(30/30)	61x1.5	0.7	2.4	30.8	878	1640
14(50/30)	61x2.5	0.8	2.4	37.1	1464	2724