

H05VV5-F (NYSLYÖ-JZ) flexible, number coded, oil resistant, meter marking



A



Technical data

- Spezial-PVC control cable with oil resistant outer sheath acc. to DIN VDE 0285-525-2-51 / DIN EN 50525-2-51 and IEC 60227/75
- **Temperature range**
flexing -5°C to +70°C
fixed installation -40°C to +70°C
- **Nominal voltage** U_0/U 300/500 V
- **Test voltage** 2 kV, 5 minutes
Breakdown voltage min. 4000 V
- **Insulation resistance**
min. 20 MOhm x km
- **Minimum bending radius**
flexing 7,5x cable \varnothing
fixed installation 4x cable \varnothing
- **Radiation resistance**
up to 80×10^6 cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper-conductor, to DIN VDE 0295 cl.5, fine-wire, BS 6360 cl.5, IEC 60228 cl.5
- Core insulation of special PVC compound type T12 to DIN VDE 0207-363-3 / DIN EN 50363-3
- Core identification to DIN VDE 0293 black cores with continuous white numbering
- GN-YE conductor, 3 cores and above in the outer layer
- Outer sheath of special PVC compound type TMS5 to DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour grey (RAL 7001)
- with meter marking

Properties

- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Tests

- PVC self-extinguishing and flame retardant acc. to DIN VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1 (equivalent DIN VDE 0472 part 804 test method B)
- Oil resistant to DIN EN 60811-404

Note

- G = with green-yellow conductor
x = without green-yellow conductor (OZ)
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- screened analogue type:
H05VVC4V5-K (NYSLYCYÖ-JZ), confer page 57

Application

These cables are used for flexible use for medium mechanical stresses with free movement without tensile stress or forced movements in dry, moist and wet rooms but not suitable for open air. These are designed as control and connecting cables to machines, tool machineries, conveyor belts and production lines.

These cables are not effected to the chemical influences. Cables for moist and wet rooms, specially used for machines in breweries, bottling plants and car washing stations.

These cables may be allowed to move once installed provided that the cables are not mechanically stressed during movement.

CE= The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13122	2 x 0,5	5,2 - 6,6	9,7	46,0	20
13001	3 G 0,5	5,5 - 7,0	14,4	54,0	20
13002	4 G 0,5	6,2 - 7,9	19,0	65,0	20
13003	5 G 0,5	6,8 - 8,6	24,0	80,0	20
13004	6 G 0,5	7,6 - 9,6	29,0	104,0	20
13005	7 G 0,5	8,3 - 10,4	33,6	119,0	20
13920	8 G 0,5	9,2 - 11,5	38,0	134,0	20
13006	9 G 0,5	10,1 - 12,5	43,0	136,0	20
13921	10 G 0,5	10,9 - 13,6	48,0	166,0	20
13007	12 G 0,5	10,4 - 12,9	58,0	186,0	20
13922	14 G 0,5	10,9 - 13,6	67,0	215,0	20
13008	18 G 0,5	12,3 - 15,3	86,0	251,0	20
13009	25 G 0,5	14,8 - 18,2	120,0	349,0	20
13923	27 G 0,5	15,1 - 18,6	129,6	373,0	20
13010	34 G 0,5	17,2 - 21,2	163,0	480,0	20
13924	36 G 0,5	17,0 - 20,9	172,0	510,0	20
13125	41 G 0,5	18,8 - 23,1	196,0	570,0	20
13011	50 G 0,5	20,5 - 25,2	240,0	658,0	20
13012	61 G 0,5	22,0 - 26,9	293,0	780,0	20
13925	65 G 0,5	22,8 - 28,0	312,0	810,0	20

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13123	2 x 0,75	5,7 - 7,2	14,1	52,0	19
13013	3 G 0,75	6,0 - 7,6	21,6	68,0	19
13014	4 G 0,75	6,6 - 8,3	29,0	82,0	19
13015	5 G 0,75	7,4 - 9,3	36,0	107,0	19
13016	6 G 0,75	8,1 - 10,1	43,0	132,0	19
13017	7 G 0,75	9,0 - 11,3	50,0	145,0	19
13926	8 G 0,75	9,9 - 12,3	58,0	189,0	19
13018	9 G 0,75	10,6 - 13,2	65,0	194,0	19
13019	12 G 0,75	11,0 - 13,7	86,0	231,0	19
13927	14 G 0,75	11,7 - 14,5	101,0	274,0	19
13020	18 G 0,75	13,2 - 16,4	130,0	313,0	19
13021	25 G 0,75	15,8 - 19,5	180,0	461,0	19
13928	27 G 0,75	16,2 - 19,9	195,0	493,0	19
13022	34 G 0,75	18,4 - 22,6	245,0	614,0	19
13929	36 G 0,75	18,2 - 22,4	259,0	646,0	19
13126	41 G 0,75	20,1 - 24,6	295,0	730,0	19
13023	50 G 0,75	21,9 - 26,8	360,0	896,0	19
13024	61 G 0,75	23,4 - 28,7	439,0	1030,0	19
13930	65 G 0,75	24,4 - 29,8	468,0	1071,0	19

Continuation ▶

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Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13119	2 x 1	5,9 - 7,5	19,0	66,0	18
13025	3 G 1	6,3 - 8,0	29,0	78,0	18
13026	4 G 1	6,9 - 8,7	38,0	104,0	18
13027	5 G 1	7,8 - 9,8	48,0	123,0	18
13028	6 G 1	8,7 - 10,8	58,0	152,0	18
13029	7 G 1	9,5 - 11,8	67,0	183,0	18
13931	8 G 1	10,5 - 13,0	77,0	220,0	18
13030	9 G 1	11,4 - 14,0	86,0	230,0	18
13031	12 G 1	11,8 - 14,6	115,0	269,0	18
13932	14 G 1	12,6 - 14,6	134,0	361,0	18
13032	18 G 1	14,0 - 17,2	173,0	400,0	18
13933	19 G 1	13,6 - 16,8	183,0	413,0	18
13033	25 G 1	16,9 - 20,8	240,0	546,0	18
13934	27 G 1	17,0 - 21,0	259,0	582,0	18
13034	34 G 1	19,7 - 24,1	326,0	724,0	18
13124	36 G 1	19,4 - 23,8	348,0	775,0	18
13935	37 G 1	19,4 - 23,8	355,0	785,0	18
13127	41 G 1	21,4 - 26,2	392,0	822,0	18
13035	50 G 1	23,3 - 28,5	480,0	1052,0	18
13036	61 G 1	25,0 - 30,6	586,0	1265,0	18
13936	65 G 1	25,2 - 30,8	624,0	1315,0	18
13120	2 x 1,5	6,8 - 8,6	29,0	77,0	16
13037	3 G 1,5	7,4 - 9,4	43,0	97,0	16
13038	4 G 1,5	8,2 - 10,2	58,0	128,0	16
13039	5 G 1,5	9,1 - 11,4	72,0	149,0	16
13040	6 G 1,5	10,2 - 12,6	86,0	196,0	16
13041	7 G 1,5	11,3 - 14,1	101,0	216,0	16
13937	8 G 1,5	12,2 - 15,1	115,0	271,0	16
13042	9 G 1,5	13,3 - 16,5	130,0	282,0	16
13043	12 G 1,5	13,8 - 17,0	173,0	324,0	16
13121	14 G 1,5	14,7 - 18,1	202,0	372,0	16
13044	18 G 1,5	16,5 - 20,3	259,0	485,0	16
13938	19 G 1,5	16,7 - 20,5	274,0	495,0	16
13045	25 G 1,5	19,9 - 24,4	360,0	671,0	16
13939	27 G 1,5	20,3 - 24,9	389,0	695,0	16
13046	32 G 1,5	22,2 - 27,1	461,0	820,0	16
13047	34 G 1,5	23,0 - 28,2	490,0	881,0	16
13940	36 G 1,5	23,0 - 28,2	518,0	905,0	16
13941	37 G 1,5	23,0 - 28,2	532,0	920,0	16
13128	41 G 1,5	25,2 - 30,9	590,0	1085,0	16
13048	50 G 1,5	27,7 - 33,9	720,0	1381,0	16
13049	61 G 1,5	29,4 - 35,8	878,0	1640,0	16
13942	65 G 1,5	30,3 - 37,0	963,0	1730,0	16

Part no.	No. cores x cross-sec. mm ²	Outer Ø min. - max. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13943	2 x 2,5	8,4 - 10,6	48,0	110,0	14
13050	3 G 2,5	9,2 - 11,4	72,0	154,0	14
13051	4 G 2,5	10,1 - 12,5	96,0	212,0	14
13052	5 G 2,5	11,2 - 13,9	120,0	242,0	14
13053	7 G 2,5	13,6 - 16,8	168,0	350,0	14
13945	8 G 2,5	14,9 - 18,3	192,0	379,0	14
13054	12 G 2,5	16,8 - 20,6	288,0	543,0	14
13946	14 G 2,5	17,8 - 20,6	336,0	611,0	14
13055	18 G 2,5	20,2 - 24,8	432,0	787,0	14
13056	25 G 2,5	24,2 - 29,6	600,0	1175,0	14
13947	27 G 2,5	24,7 - 30,2	648,0	1280,0	14
13057	34 G 2,5	28,2 - 34,5	816,0	1529,0	14
13948	36 G 2,5	28,0 - 34,2	864,0	1791,0	14
13949	41 G 2,5	30,4 - 37,1	984,0	1905,0	14
13058	50 G 2,5	33,0 - 40,3	1200,0	2290,0	14
13059	61 G 2,5	35,0 - 42,7	1464,0	2724,0	14

Dimensions and specifications may be changed without prior notice. (RA01)



Suitable accessories can be found in Chapter X.

- Cable Gland - HELUTOP® HT-PA
- Cable Gland - HELUTOP® HT-MS