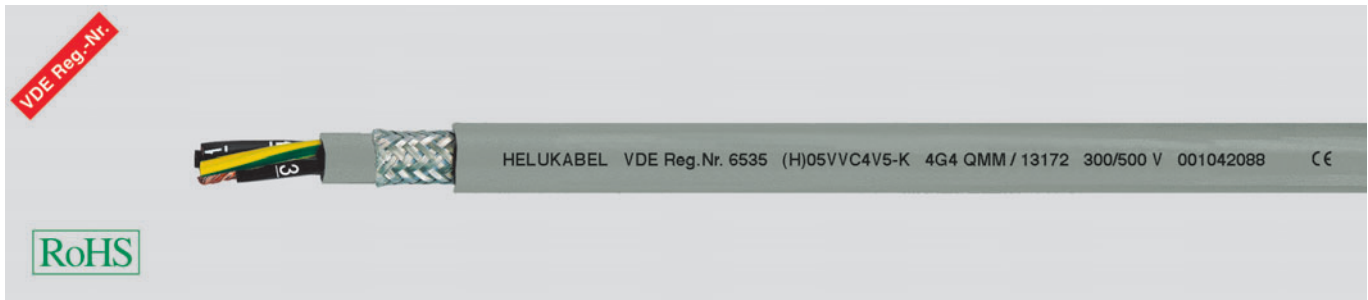


(H)05VVC4V5-K ((N)YSLYCYÖ-JZ) number coded, screened, oil resistant, EMC-preferred type



Technical data

- Control cable, special PVC with oil resistant outer jacket to DIN VDE 0281 part 13, HD 21.13S1 and IEC 60227/74
- 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**
core/core 2 kV, 5 min
core/screen 2 kV, 5 min
- Breakdown voltage** min. 4000 V
- Insulation resistance**
min. 20 MΩm x km
- Coupling resistance**
at 30 MHz $\leq 250 \text{ Ohm/km}$
- Minimum bending radius**
flexing 10x cable \varnothing
fixed installation 5x cable \varnothing
- Radiation resistance**
up to $80 \times 10^6 \text{ cJ/kg}$ (up to 80 Mrad)

Cable structure

- Bare copper, fine wire stranded conductor to DIN VDE 0295 cl. 5, BS 6360 cl. 5, HD 383 and IEC 60228 cl. 5
- Special PVC core insulation TI2 to DIN VDE 0281 part 1
- Black cores with white figure imprint to DIN VDE 0293
- Green-yellow earth core in the outer layer (3 cores and above)
- Cores stranded in layers with optimal lay-length
- Special PVC inner sheath, TM2 to DIN VDE 0281 part 1
- Tinned copper braided screening, covering approx. 85%
- Special PVC outer jacket, TM5 to DIN VDE 0281 part 1, HD 21.1.S4/A16
- Colour grey (RAL 7001)
- with meter marking, change-over in 2011

Properties

- PVC self-extinguishing and flame retardant according to 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 60811-2-1
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

Note

- G = with green-yellow earth core;
x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- unscreened analogue type:**
(H)05VV5-F ((N)YSLYÖ-JZ), see page A 13

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.

The interconnection of parts of machines used for manufacturing purposes including machine tools where some degree of protection against electromagnetic interference is required.

EMC = Electromagnetic compatibility

To optimise the EMC features we recommend a large round contact of the copper braiding on both ends.

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

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13170	2 x 4	12,5	124,0	236,0	12
13171	3 G 4	13,9	178,0	361,0	12
13172	4 G 4	15,7	234,0	430,0	12
13173	5 G 4	17,1	284,0	509,0	12
13175	7 G 4	20,5	321,0	660,0	12
13178	12 G 4	25,5	581,0	979,0	12
13179	2 x 6	14,6	176,0	296,0	10
13180	3 G 6	15,7	245,0	420,0	10
13181	4 G 6	17,3	316,0	579,0	10
13182	5 G 6	19,5	442,0	719,0	10
13183	7 G 6	23,1	530,0	1031,0	10
13185	3 G 10	19,9	367,0	655,0	8
13186	4 G 10	22,0	549,0	894,0	8
13187	5 G 10	24,6	604,0	927,0	8
13188	7 G 10	29,5	820,0	1518,0	8

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
13190	3 G 16	22,9	653,0	993,0	6
13191	4 G 16	25,5	807,0	1340,0	6
13192	5 G 16	27,9	940,0	1626,0	6
13193	7 G 16	33,9	1345,0	2080,0	6
13196	4 G 25	31,6	1169,0	1692,0	4
13197	5 G 25	35,1	1420,0	1972,0	4
13198	3 G 35	31,1	1250,0	1704,0	2
13199	4 G 35	34,4	1680,0	2320,0	2
13189	5 G 35	37,4	2020,0	2780,0	2
13194	3 G 50	36,9	1887,0	2661,0	1
13195	4 G 50	40,3	2370,0	3194,0	1
13184	5 G 50	44,9	2880,0	4247,0	1

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