



Technical data

- Special PVC control cable
- Requirements adapted to DIN VDE 0281 part 13 and IEC 60227/7
- identical with H05VV-F to VDE 0281 part 13 and IEC 60227/7 type 227 IEC 75, but without increased oil resistant outer sheath
- **Temperature range**
flexing -5 °C to +80 °C
fixed installation -40 °C to +80 °C
- **Nominal voltage** U_0/U 450/750 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**
min. 20 MΩm x km
- **Minimum bending radius**
flexing 7,5x cable ø
fixed installation 4x cable ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation TI2, to DIN VDE 0281 part 1
- Black cores with white figure imprints 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, outer sheath TM2, to DIN VDE 0281 part 1
- Colour grey (RAL 7001)
- With meter marking, change-over in 2011

Properties

- Extensively oil resistant, oil-/ chemical Resistance - see table Technical Informations
- 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)
- 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.
- Cleanroom qualification tested with analog type. Please note "cleanroom qualified" when ordering.

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, wherever internationally recognized PVC cables are required. E.g. as a control or measurements cable on industrial machinery, on conveyor systems or in industrial plants, etc. The number coding has been brought onto the cores in such a way that it is easily identifiable and the core numbers are individually underlined to avoid confusion. The green-yellow earth core is laid in the outer layer.

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.
10800	2 x 0,5	5,7	9,6	48,0	20
10801	3 G 0,5	6,0	14,5	65,0	20
10802	4 G 0,5	6,8	20,0	81,0	20
10803	5 G 0,5	7,4	24,0	98,0	20
10804	7 G 0,5	8,3	34,0	123,0	20
10805	8 G 0,5	9,1	38,0	155,0	20
10806	10 G 0,5	10,0	48,0	180,0	20
10807	12 G 0,5	10,8	58,0	208,0	20
10808	14 G 0,5	11,7	67,0	248,0	20
10809	16 G 0,5	12,5	76,0	260,0	20
10810	18 G 0,5	13,2	87,0	285,0	20
10811	21 G 0,5	13,8	96,0	375,0	20
10812	25 G 0,5	15,5	118,0	400,0	20
10813	30 G 0,5	16,6	144,0	475,0	20
10814	40 G 0,5	18,7	192,0	590,0	20
10815	50 G 0,5	21,5	240,0	710,0	20
10816	61 G 0,5	23,0	293,0	880,0	20
10817	2 x 0,75	6,2	15,0	60,0	18
10818	3 G 0,75	6,5	22,0	78,0	18
10819	4 G 0,75	7,3	29,0	104,0	18
10820	5 G 0,75	8,0	36,0	116,0	18
10821	7 G 0,75	8,9	51,0	148,0	18
10822	8 G 0,75	9,6	58,0	160,0	18
10823	10 G 0,75	10,7	72,0	195,0	18
10824	12 G 0,75	11,6	87,0	248,0	18
10825	15 G 0,75	13,2	108,0	295,0	18
10826	18 G 0,75	14,1	130,0	346,0	18
10827	21 G 0,75	14,8	151,0	395,0	18
10828	25 G 0,75	16,6	180,0	505,0	18
10829	34 G 0,75	19,3	245,0	684,0	18
10830	41 G 0,75	20,9	296,0	780,0	18
10831	50 G 0,75	22,9	360,0	940,0	18
10832	61 G 0,75	24,5	440,0	1125,0	18
10833	2 x 1	6,6	20,0	80,0	17

Part no.	No. cores x cross-sec. mm ²	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
10834	3 G 1	7,0	29,0	92,0	17
10835	3 x 1	7,0	29,0	92,0	17
10836	4 G 1	7,8	39,0	122,0	17
10837	4 x 1	7,8	39,0	122,0	17
10838	5 G 1	8,6	48,0	137,0	17
10839	7 G 1	9,5	68,0	186,0	17
10840	7 x 1	9,5	68,0	186,0	17
10841	8 G 1	10,3	77,0	240,0	17
10842	12 G 1	12,7	116,0	293,0	17
10843	14 G 1	13,4	134,0	340,0	17
10844	16 G 1	14,4	154,0	400,0	17
10845	18 G 1	15,1	173,0	437,0	17
10846	21 G 1	16,1	205,0	505,0	17
10847	25 G 1	18,0	240,0	606,0	17
10848	34 G 1	20,9	326,0	770,0	17
10849	41 G 1	22,6	394,0	880,0	17
10850	50 G 1	24,8	480,0	1400,0	17
10851	61 G 1	26,5	586,0	1450,0	17
10852	2 x 1,5	7,2	29,0	90,0	16
10853	3 G 1,5	7,8	43,0	120,0	16
10854	3 x 1,5	7,8	43,0	120,0	16
10855	4 G 1,5	8,5	58,0	150,0	16
10856	4 x 1,5	8,5	58,0	155,0	16
10857	5 G 1,5	9,6	72,0	177,0	16
10858	7 G 1,5	10,4	101,0	220,0	16
10859	8 G 1,5	11,4	115,0	248,0	16
10860	9 G 1,5	12,5	130,0	278,0	16
10861	12 G 1,5	14,1	173,0	364,0	16
10862	14 G 1,5	14,9	202,0	390,0	16
10863	16 G 1,5	16,0	230,0	490,0	16
10864	18 G 1,5	17,0	259,0	550,0	16
10865	21 G 1,5	18,0	302,0	670,0	16
10866	25 G 1,5	20,2	360,0	745,0	16
10867	32 G 1,5	22,6	461,0	810,0	16

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