



## Technical data

- Special PVC control cables, adapted to E DIN VDE 0245, 0281 part 13
- **Conductor resistance** to DIN VDE 0295
- **Temperature range**  
flexing -5°C to +80°C  
fixed installation -40°C to +80°C
- **Nominal voltage**  $U_0/U$  300/500 V
- **Test voltage** 4000 V
- **Breakdown voltage** min. 8000 V
- **Insulation resistance**  
min. 20 MΩm x km
- **Mutual capacitance** according to different cross-sections  
0,5 mm<sup>2</sup> to 2,5 mm<sup>2</sup>:  
core/core approx. 150 nF/km  
core/screen approx. 270 nF/km
- **Coupling resistance**  
max. 250 Ωm/km
- **Minimum bending radius**  
flexing 10x cable Ø  
fixed installation 5x cable Ø
- **Radiation resistance**  
up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)

## Cable construction

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z7225
- Black cores with continuous white numbering 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
- Tinned copper, braided screen, approx. 85% coverage
- Transparent special PVC outer sheath

## Properties

- Extensively oil resistant.  
Chemical Resistance - see table Technical Informations
- PVC self-extinguishing and flame retardant according to DIN VDE 0482 part 265-2-1/ EN 50265-2-1/ 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 (0Z).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm<sup>2</sup>.

## Application

For use as a data and control cable in machinery, computer systems etc. as well as a signal cable for electronics. The high level of screening ensures a high degree of interference protection. The screening density assures disturbancefree transmission of all signals and impulses. The PVC-inner sheaths of those cables raise the mechanical stress. The applied clear transparent PVC outer sheath accentuates the optical view of the tinned copper braid.

**EMC** = Electromagnetic compatibility

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

**CE** = The product is conformed with the EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
16200	2 x 0,5	6,9	32,0	67,0	20
16201	3 G 0,5	7,2	39,0	83,0	20
16202	4 G 0,5	7,8	46,0	94,0	20
16203	5 G 0,5	8,3	52,0	108,0	20
16204	6 G 0,5	9,0	66,0	125,0	20
16205	7 G 0,5	9,5	68,0	136,0	20
16206	8 G 0,5	10,2	80,0	150,0	20
16207	10 G 0,5	11,2	81,0	170,0	20
16208	12 G 0,5	11,3	117,0	195,0	20
16209	14 G 0,5	11,9	122,0	223,0	20
16210	16 G 0,5	12,6	123,0	250,0	20
16211	18 G 0,5	13,1	156,0	277,0	20
16212	20 G 0,5	13,8	173,0	310,0	20
16315	21 G 0,5	14,5	189,0	331,0	20
16213	24 G 0,5	15,2	236,0	390,0	20
16214	25 G 0,5	15,7	250,0	407,0	20
16215	30 G 0,5	16,0	297,0	520,0	20
16216	32 G 0,5	16,9	301,0	550,0	20
16217	36 G 0,5	17,4	320,0	585,0	20
16218	40 G 0,5	18,9	343,0	654,0	20
16453	41 G 0,5	19,0	348,0	671,0	20
16219	50 G 0,5	20,9	407,0	740,0	20
16220	61 G 0,5	22,9	415,0	850,0	20
16221	80 G 0,5	25,0	690,0	1080,0	20
16222	100 G 0,5	27,7	814,0	1350,0	20

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
16223	2 x 0,75	7,6	39,0	87,0	18
16224	3 G 0,75	7,8	49,0	98,0	18
16225	4 G 0,75	8,3	57,0	113,0	18
16226	5 G 0,75	9,1	69,0	130,0	18
16227	6 G 0,75	9,6	71,0	156,0	18
16228	7 G 0,75	10,4	87,0	184,0	18
16229	8 G 0,75	11,1	86,0	221,0	18
16230	10 G 0,75	12,2	140,0	270,0	18
16231	12 G 0,75	12,5	151,0	292,0	18
16232	14 G 0,75	13,0	144,0	315,0	18
16233	16 G 0,75	13,8	172,0	335,0	18
16234	18 G 0,75	14,3	207,0	358,0	18
16235	20 G 0,75	15,2	220,0	420,0	18
16316	21 G 0,75	15,8	231,0	454,0	18
16236	24 G 0,75	16,8	250,0	480,0	18
16237	25 G 0,75	17,4	257,0	508,0	18
16238	27 G 0,75	17,6	266,0	535,0	18
16239	30 G 0,75	18,1	297,0	640,0	18
16240	32 G 0,75	18,7	330,0	688,0	18
16241	36 G 0,75	19,5	370,0	730,0	18
16242	40 G 0,75	20,9	395,0	950,0	18
16454	41 G 0,75	21,2	403,0	971,0	18
16243	50 G 0,75	23,2	480,0	1100,0	18
16244	61 G 0,75	25,0	555,0	1290,0	18
16245	80 G 0,75	28,0	715,0	1510,0	18
16246	100 G 0,75	30,6	910,0	1640,0	18

Dimensions and specifications may be changed without prior notice.

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