



## 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
- **insulation resistance** min. 20 MOhm $\times$ 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 Ohm/km
- **Minimum bending radius** 10x cable  $\varnothing$
- **Radiation resistance** up to 80x10<sup>6</sup> cJ/kg (up to 80 Mrad)
  
- The materials used in manufacture are cadmium-free and contain no silicone and free from substances harmful to the wetting properties of lacquers

## Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5 and IEC 60228 cl. 5
- Core insulation of special PVC Z 7225
- 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
- Extensively oil resistant
- Chemical Resistance – see table Technical Informations
- PVC self-extinguishing and flame retardant

## 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 disturbance-free 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  
**Note** 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 73/23/EEC and 93/68/EEC.

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
16200 OZ	2 x 0,5	6,9	32	67	20
16201	3G0,5	7,2	39	83	20
16202	4G0,5	7,8	46	94	20
16203	5G0,5	8,3	52	108	20
16204	6G0,5	9,0	66	125	20
16205	7G0,5	9,5	68	136	20
16206	8G0,5	10,2	80	150	20
16207	10G0,5	11,2	81	170	20
16208	12G0,5	11,3	117	195	20
16209	14G0,5	11,9	122	223	20
16210	16G0,5	12,6	123	250	20
16211	18G0,5	13,1	156	277	20
16212	20G0,5	13,8	173	310	20
16315	21G0,5	14,5	189	331	20
16213	24G0,5	15,2	236	390	20
16214	25G0,5	15,7	250	407	20
16215	30G0,5	16,0	297	520	20
16216	32G0,5	16,9	301	550	20
16217	36G0,5	17,4	320	585	20
16218	40G0,5	18,9	343	654	20
16453	41G0,5	19,0	348	671	20
16219	50G0,5	20,9	407	740	20
16220	61G0,5	22,9	415	850	20
16221	80G0,5	25,0	690	1080	20
16222	100G0,5	27,7	814	1350	20

Part No.	No. cores x cross-sec. mm <sup>2</sup>	Outer $\varnothing$ ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-no. *)
16223 OZ	2 x 0,75	7,6	39	87	18
16224	3G0,75	7,8	49	98	18
16225	4G0,75	8,3	57	113	18
16226	5G0,75	9,1	69	130	18
16227	6G0,75	9,6	71	156	18
16228	7G0,75	10,4	87	184	18
16229	8G0,75	11,1	86	221	18
16230	10G0,75	12,2	140	270	18
16231	12G0,75	12,5	151	292	18
16232	14G0,75	13,0	144	315	18
16233	16G0,75	13,8	172	335	18
16234	18G0,75	14,3	207	358	18
16235	20G0,75	15,2	220	420	18
16316	21G0,75	15,8	231	454	18
16236	24G0,75	16,8	250	480	18
16237	25G0,75	17,4	257	508	18
16238	27G0,75	17,6	266	535	18
16239	30G0,75	18,1	297	640	18
16240	32G0,75	18,7	330	688	18
16241	36G0,75	19,5	370	730	18
16242	40G0,75	20,9	395	950	18
16454	41G0,75	21,2	403	971	18
16243	50G0,75	23,2	480	1100	18
16244	61G0,75	25,0	555	1290	18
16245	80G0,75	28,0	715	1510	18
16246	100G0,75	30,6	910	1640	18

\*) **Note**  
 AWG sizes are approximate equivalent values.  
 The actual cross-section is in mm<sup>2</sup> – see page T 15.

Continuation ►

G = with green-yellow earth core  
 X = without green-yellow earth core (OZ)

PVC cables will be changed to lead free PVC successively.  
 Further types and dimensions available on request.