



## 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<sub>0</sub>/U 300/500 V to 1,5 mm<sup>2</sup> U<sub>0</sub>/U 450/750 V at 2,5 mm<sup>2</sup>
- **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
- Core colour coded to JB/OB colour code
- 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 (OB).
- by 5 cores with VDE-Reg. No.
- 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 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. These cables are suitable for flexible use for medium mechanical stresses with free movements. The dense screening assures disturbance-free transmission of all signals and impulses. An ideal disturbance-free control cable for the above application.

**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 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.	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.
16121	2 x 0,5	6,9	32,0	67,0	20	16137	2 x 2,5	10,0	96,0	180,0	14
16122	3 G 0,5	7,2	39,0	83,0	20	16138	3 G 2,5	10,7	148,0	216,0	14
16123	4 G 0,5	7,8	46,0	94,0	20	16139	4 G 2,5	11,4	174,0	267,0	14
16124	5 G 0,5	8,3	52,0	108,0	20	16140	5 G 2,5	12,5	200,0	347,0	14
16125	2 x 0,75	7,6	39,0	87,0	18	16141	2 x 4	11,6	135,0	302,0	12
16126	3 G 0,75	7,8	49,0	98,0	18	16142	3 G 4	12,3	178,0	340,0	12
16127	4 G 0,75	8,3	57,0	113,0	18	16143	4 G 4	13,4	220,0	410,0	12
16128	5 G 0,75	9,1	69,0	130,0	18	16144	5 G 4	14,8	328,0	502,0	12
16129	2 x 1	7,9	46,0	97,0	17	16145	2 x 6	13,5	175,0	350,0	10
16130	3 G 1	8,2	56,0	103,0	17	16146	3 G 6	14,2	240,0	450,0	10
16131	4 G 1	8,9	69,0	146,0	17	16147	4 G 6	15,6	305,0	559,0	10
16132	5 G 1	9,5	85,0	169,0	17	16148	5 G 6	17,0	441,0	702,0	10
16133	2 x 1,5	8,4	63,0	130,0	16	16149	2 x 10	16,8	265,0	500,0	8
16134	3 G 1,5	9,0	76,0	152,0	16	16150	3 G 10	17,8	370,0	750,0	8
16135	4 G 1,5	9,6	96,0	168,0	16	16151	4 G 10	19,7	485,0	1020,0	8
16136	5 G 1,5	10,5	111,0	202,0	16	16152	5 G 10	21,6	610,0	1115,0	8

Dimensions and specifications may be changed without prior notice.

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