



Technical data

- Special PVC data cables, screened, adapted to DIN VDE 0812, 0814, 0245
- **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**
core/core 1200 V
core/screen 800 V
- **Breakdown voltage** min. 2400 V
- **Insulation resistance**
min. 20 MΩm x km
- **Mutual capacitance** according to different cross-sections
0,5 mm² to 1,5 mm²:
core/core approx. 150 nF/km
core/screen approx. 270 nF/km
- **Inductance** approx. 0,67 mH/km
- **Coupling resistance**
max. 250 Ωm/km
- **Minimum bending radius**
flexing 10x cable Ø
fixed installation 5x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (up to 80 Mrad)

Cable structure

- Bare copper, fine wire conductors, bunch stranded to DIN VDE 0295 cl. 5, BS 6360 cl. 5 and IEC 60228 cl. 5
- Special PVC core insulation T12, to DIN VDE 0281 part 1
- Black cores with continuous numbering in white according to DIN VDE 0293
- Cores laid up in pairs
- Pairs stranded in layers with optimal lay-length
- Foil wrap
- Tinned copper screened braiding, approx. 85% coverage
- Special PVC outer sheath TM2, to DIN VDE 0281 part 1
- Colour grey (RAL 7032)
- with meter marking, change-over in 2009

Properties

- Extensively oil resistant.
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

- x = without green-yellow earth core (OZ).
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².
- We deliver other dimensions and other colours of outer jackets on request.

Application

PAAR-CY is ideal for use as a connecting cable for all areas involving measuring, control, regulation and signal transfer as well as for use in all fields of data and impulse transmission.

Especially suited for all areas of high electromagnetic activity, e. g. disturbances through parallel circuits.

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.pairs x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.	Part No.	No.pairs x cross-sec. mm ²	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km	AWG-No.
17023	2 x 2 x 1	9,5	82,0	135,0	17	17034	2 x 2 x 1,5	11,3	112,0	168,0	16
17024	3 x 2 x 1	10,0	103,0	160,0	17	17035	3 x 2 x 1,5	12,2	139,0	221,0	16
17025	4 x 2 x 1	11,0	132,0	197,0	17	17036	4 x 2 x 1,5	13,5	176,0	269,0	16
17026	5 x 2 x 1	12,3	161,0	253,0	17	17037	5 x 2 x 1,5	14,5	212,0	314,0	16
17027	6 x 2 x 1	13,4	188,0	295,0	17	17038	6 x 2 x 1,5	17,2	255,0	550,0	16
17028	8 x 2 x 1	14,7	240,0	410,0	17	17039	8 x 2 x 1,5	18,2	322,0	650,0	16
17029	10 x 2 x 1	16,4	282,0	518,0	17	17040	10 x 2 x 1,5	20,1	380,0	900,0	16
17030	12 x 2 x 1	18,2	324,0	601,0	17	17041	12 x 2 x 1,5	21,8	442,0	950,0	16
17031	16 x 2 x 1	19,0	412,0	990,0	17	17042	16 x 2 x 1,5	25,0	572,0	1100,0	16
17032	20 x 2 x 1	19,8	505,0	1400,0	17	17043	20 x 2 x 1,5	27,0	705,0	1700,0	16
17033	25 x 2 x 1	23,5	610,0	1600,0	17	17044	25 x 2 x 1,5	29,5	862,0	1900,0	16

Dimensions and specifications may be changed without prior notice. (RB01)