## PAAR-TRON|C-Li-2YCYV PE-insulated, low capacitance, Termi-Point ${ }^{\oplus}$,

## EMC-preferred type, meter marking



## Technical data

- PE-insulated data cable
- Temperature range
flexing $-5^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
fixed installation $-30^{\circ} \mathrm{C}$ to $+80^{\circ} \mathrm{C}$
- Conductor resistance (loop) at $20^{\circ} \mathrm{C}$
$0,22 \mathrm{~mm}^{2}$ max. $186 \mathrm{Ohm} / \mathrm{km}$
$0,34 \mathrm{~mm}^{2} \mathrm{max} .115 \mathrm{Ohm} / \mathrm{km}$ $0,5 \mathrm{~mm}^{2}$ max. 78,5 Ohm/km $1,0 \mathrm{~mm}^{2}$ max. 39,2 Ohm/km
- Operating peak voltage max. 250 V (not for heavy current installation purposes)
- Test voltage
core/core 2000 V
core/screen 1000 V
- Insulation resistance min. 5 GOhm x km
- Mutual capacitance at 800 Hz
> 4 pairs max. $60 \mathrm{nF} / \mathrm{km}$
$\leq 4$ pairs values extended by $20 \%$
- Inductance approx. $0,66 \mathrm{mH} / \mathrm{km}$
- Line attenuation (approx. value)
$0,22 \mathrm{~mm}^{2}$ at $100 \mathrm{kHz} 9,0 \mathrm{~dB} / \mathrm{km}$
$0,34 \mathrm{~mm}^{2}$ at $100 \mathrm{kHz} 6,6 \mathrm{~dB} / \mathrm{km}$
$0,50 \mathrm{~mm}^{2}$ at $100 \mathrm{kHz} 6,0 \mathrm{~dB} / \mathrm{km}$
$0,22 \mathrm{~mm}^{2}$ at $1 \mathrm{MHz} 25,0 \mathrm{~dB} / \mathrm{km}$ $0,34 \mathrm{~mm}^{2}$ at $1 \mathrm{MHz} 20,0 \mathrm{~dB} / \mathrm{km}$ $0,50 \mathrm{~mm}^{2}$ at $1 \mathrm{MHz} \mathrm{18,0dB/km}$


## - Cross-talk attenuation

up to 1 MHz min. 50 dB up to $10 \mathrm{MHz} \min .40 \mathrm{~dB}$

- Minimum bending radius
flexing $12 x$ cable $\varnothing$
fixed installation $7,5 x$ cable $\varnothing$


## Application

These PE-insulated data cables with twisted pairs are used in particular for the interference-free transmission of data and signals over longer distances. The high transmission rates are particularly suitable for RS 422 and RS 485 interfaces. These cables are suitable for fixed installations as well as for flexing applications, for free movement without forced motion and without tensile stress, in dry and moist environments. Yv black with reinforced outer sheath, is suitable for installation in the ground and in open air.
EMC = Electromagnetic compatibillity
To optimize the EMC features we recommend a large round contact of the copper braiding on both ends.
C $€=$ The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

| Part no. | No.pairs $x$ cross-sec. $\mathbf{m m}^{2}$ | Outer $\varnothing$ approx. mm | Cop. weight $\mathbf{k g} / \mathbf{k m}$ | Weight approx. kg/ km | AWG-No. |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 21129 | $2 \times 2 \times 0,22$ | 7,8 | 26,0 | 60,0 | 24 |
| 21130 | $3 \times 2 \times 0,22$ | 8,1 | 31,0 | 79,0 | 24 |
| 21131 | $4 \times 2 \times 0,22$ | 8,5 | 38,0 | 96,0 | 24 |
| 21132 | $8 \times 2 \times 0,22$ | 10,6 | 62,0 | 140,0 | 24 |
| 21133 | $10 \times 2 \times 0,22$ | 11,6 | 79,0 | 184,0 | 24 |
| 21135 | $2 \times 2 \times 0,34$ | 8,7 | 35,0 | 83,0 | 22 |
| 21136 | $3 \times 2 \times 0,34$ | 9,4 | 44,0 | 92,0 | 22 |
| 21137 | $4 \times 2 \times 0,34$ | 10,0 | 53,0 | 112,0 | 22 |
| 21138 | $8 \times 2 \times 0,34$ | 12,4 | 86,0 | 179,0 | 22 |
| 21139 | $10 \times 2 \times 0,34$ | 13,8 | 104,0 | 219,0 | 22 |


| Part no. | No.pairs $\mathbf{x}$ <br> cross-sec. <br> $\mathbf{m m}^{2}$ | Outer $\varnothing$ <br> approx. $\mathbf{m m}$ <br> Cop. <br> weight <br> $\mathbf{k g} / \mathbf{k m}$ | Weight <br> approx. <br> $\mathbf{k g} / \mathbf{k m}$ | AWG-No. |  |
| :--- | :---: | ---: | ---: | ---: | ---: |
| 21141 | $2 \times 2 \times 0,5$ | 9,8 | 49,0 | 90,0 | 20 |
| 21142 | $3 \times 2 \times 0,5$ | 10,4 | 60,0 | 126,0 | 20 |
| 21143 | $4 \times 2 \times 0,5$ | 11,2 | 73,0 | 146,0 | 20 |
| 21144 | $8 \times 2 \times 0,5$ | 13,9 | 124,0 | 246,0 | 20 |
| 21145 | $10 \times 2 \times 0,5$ | 16,0 | 155,0 | 292,0 | 20 |
| 21146 | $2 \times 2 \times 1$ | 10,8 | 81,0 | 141,0 | 18 |
| 21147 | $3 \times 2 \times 1$ | 11,5 | 102,0 | 170,0 | 18 |
| 21148 | $4 \times 2 \times 1$ | 12,0 | 130,0 | 203,0 | 18 |
| 21149 | $8 \times 2 \times 1$ | 16,1 | 240,0 | 261,0 | 18 |
| 21150 | $10 \times 2 \times 1$ | 17,2 | 282,0 | 287,0 | 18 |

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[^0]:    Dimensions and specifications may be changed without prior notice. (RB01)

