

PAAR-TRONIC-CY-CY (LiYCY-CY) EMC-preferred type



HELUKABEL PAAR-TRONIC-CY-CY 6x2x0,34 QMM / 21094 001042319 CE



Technical data

- Special PVC data transmission cable adapted to DIN VDE 0812 and 0814
- **Temperature range**
flexing -5°C to +80°C
fixed installation -40°C to +80°C
- **Conductor resistance**
0,14 mm² = max. 138 Ohm/km
0,25 mm² = max. 77,8 Ohm/km
- **Nominal voltage**
0,14 mm² = max. 350 V
0,25 mm² = max. 500 V
- **Test voltage**
0,14 mm² = 1200 V
0,25 mm² = 2000 V
- **Breakdown voltage**
0,14 mm² = 2400 V
0,25 mm² = 4000 V
- **Mutual capacitance**
core/core
0,14 mm² = 147 pF/m
0,25 mm² = 152,5 pF/m
core/screen
0,14 mm² = 147 pF/m
0,25 mm² = 263 pF/m
- **Impedance**
0,14 mm² = 536 Ohm/1 kHz/20°C
0,25 mm² = 396 Ohm/1 kHz/20°C
- **Coupling** 250 pF/100 m/1 kHz
- **Screen resistance**
0,14 mm² = 36 Ohm/km
0,25 mm² = 18 Ohm/km
- **Attenuation**
0,14 mm² = 3,6 dB/1 kHz/km
0,25 mm² = 2,2 dB/1 kHz/km
- **Minimum bending radius**
flexing 12x cable Ø
fixed installation 6x cable Ø
- **Radiation resistance**
up to 80x10⁶ cJ/kg (bis 80 Mrad)

Cable construction

- Bare copper, fine wire conductors, to DIN VDE 0812
- Strand make-up
0,14 mm² 18x0,10 mm
0,25 mm² 14x0,15 mm
- Special PVC core insulation Y12, to DIN VDE 0207 part 4
- Core colours to DIN 47100 with colour repetition
- Cores stranded in pairs with optimal lay-length
- Pairs screened individually, tinned copper, coverage approx. 85%
- Special PVC coating over individual screened pairs
- All pairs-CY stranded together
- Core wrapping with polyester foil, overlapped
- Overall braid-screening, tinned copper coverage approx. 85%
- Special PVC outer sheath YM2, to DIN VDE 0207 part 5
- Colour grey (RAL 7001)

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

- As of 0,75 mm² cross-sec. see type L-EDV-PiMF-CY.
- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

This cable type offers total interference-free data transfer and is ideal for use as a signal and control cable in combination with computers and external units. The screening properties also make this cable type well suited for use as a connecting cable in sound studio equipment, measuring and control sectors as well as proving a highly reliable cable for process-control and security systems.

The copper screening assures a disturbance-free data and signal transmission for measuring and control systems.

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. 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.
21065	2 x 2 x 0,14	7,3	31,0	95,0	26	21071	8 x 2 x 0,14	13,0	97,0	245,0	26
21066	3 x 2 x 0,14	7,5	34,0	105,0	26	21072	9 x 2 x 0,14	14,1	101,0	280,0	26
21067	4 x 2 x 0,14	9,3	45,0	140,0	26	21073	10 x 2 x 0,14	14,0	108,0	325,0	26
21068	5 x 2 x 0,14	10,5	58,0	160,0	26	21074	12 x 2 x 0,14	15,0	134,0	380,0	26
21069	6 x 2 x 0,14	11,0	67,0	185,0	26	21075	16 x 2 x 0,14	17,0	179,0	440,0	26
21070	7 x 2 x 0,14	11,0	78,0	230,0	26	21076	20 x 2 x 0,14	17,8	225,0	520,0	26

Dimensions and specifications may be changed without prior notice.

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