


**100 Ohm RS232/422 data cable  
2x 2x 0.22 mm<sup>2</sup> - PVC**

- 0.22 mm<sup>2</sup> conductor cross section (AWG 24)
- 100 Ohm characteristic impedance
- double shielding (overall foil and braid shield)

**PVC**

Constantly rising data rates and long transmission lengths require high-quality cables with exactly defined transmission characteristics. For the improvement of cross-talk and electromagnetic compatibility symmetrical, narrowly twisted pairs and a dense copper braid are required. Low capacitances and an exactly defined characteristic impedance of 100 ohm allow the transmission of high frequency control and data signals in RS232-, RS422- and DMX applications over long distances. The optimised, compact construction and the stranded drain wire permit a easy assembly with XLR connectors.

**design**

|                     |   |
|---------------------|---|
| cond. construction  | stranded tinned copper, 7x 0.20 mm (AWG 24/7)   |
| cond. cross section | 0.22 mm <sup>2</sup>  |
| insulation          | polyethylene (PE)   |
| core stranding      | 2 cores twisted to a pair   |
| cable stranding     | 2 pairs stranded  |
| overall shield      | AL/PET foil, metal outside + stranded tinned copper<br>drain wire + tinned copper braid (>75% coverage) |
| outer jacket        | PVC   |
| overall diameter    | 6.5 mm  |

**mechanical & thermal characteristics**

|                         |   |
|-------------------------|---|
| operating temperature   | -25°C / +70°C   |
| min. bending radius     |   |
| installed               | 4x overall diameter                                     |
| mobile use              | 6x overall diameter                                     |
| no hazardous substances | acc. to EU directive RoHS 2011/65/EU from<br>08.06.2011 |
| CE conformity           | acc. to EU directive LVD 2006/95/EG                     |
| flame retardancy        | flame retardant acc. to IEC 60332-1-2                   |
| heat of combustion      | 774 kWh/km  |

**electric**

|                            |              |
|----------------------------|--------------|
| conductor resistance       | 80 Ω/km      |
| capacitance                |              |
| cond./cond.                | 45 pF/m      |
| characteristic impedance   | 100 Ω        |
| nom. attenuation [dB/100m] |              |
| 1 MHz                      | 2.1          |
| 3 MHz                      | 3.3          |
| 10 MHz                     | 6.5          |
| insulation resistance      | > 30 GΩ x km |
| test voltage               |              |
| cond./cond.                | 1200 V       |
| cond./shield               | 500 V        |

| order code | cable color | weight<br>kg/m | standard lengths<br>m      |
|------------|-------------|----------------|----------------------------|
| DC422CY    | black       | 0,06           | 50 / 100 / 200 / 300 / 500 |

technical specifications are subject to change