



## Application

Uni-Cable's screened and semi-rigid PVC data cable is with good EMC characteristics. It is applied in measuring, control, and voice signals, e.g. in medicine technologies, in scales and low-voltage switchboard plant engineering, in control and measuring technologies, for interference-prone operation controls, and in high-sensitive data-processing systems.

## Construction

Conductor: bare copper strands acc. to ASTM B 286

Insulation: semi-rigid PVC

Colour code: acc. to colour code US 2

Stranding: in layers

Wrapping: PETP foil

Screen: tinned copper braiding

Sheath material: PVC

Sheath colour: grey

## Technical data

|                                      |   |
|--------------------------------------|---|
| <b>Voltage</b>                       | UL/CSA: 300 V   |
| <b>Testing voltage</b>               | core/core 2000 V<br>core/screen 2000 V  |
| <b>Min. bending radius</b>           | fixed laying: 5 x d<br>flexible application: 10 x d   |
| <b>Temperature range</b>             | fixed laying: -30/+70 °C<br>flexible application: -5/+70 °C<br>UL/CSA fixed laying: up to +80°C<br>UL/CSA flexible application: up to +80°C |
| <b>Fire performance</b>              | flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, CSA FT1, FT2   |
| <b>Oil resistance</b>                | acc. to internal standard   |
| <b>Chem. resistance</b>              | see "Technical Data" - Chemical resistance  |
| <b>Absence of harmful substances</b> | acc. to RoHS directive of the European Union  |

## Dimensions

| No. of cores x cross section | Outer- $\varnothing$ $\pm$ 5% | Copper figure | Cable weight $\approx$ |
|------------------------------|-------------------------------|---------------|------------------------|
| 2 x 26 AWG                   | 4,1 mm                        | 9,5 kg/km     | 22 kg/km               |
| 3 x 26 AWG                   | 4,3 mm                        | 10,8 kg/km    | 24 kg/km               |
| 4 x 26 AWG                   | 4,5 mm                        | 12,2 kg/km    | 26 kg/km               |
| 5 x 26 AWG                   | 4,8 mm                        | 15,3 kg/km    | 31 kg/km               |
| 7 x 26 AWG                   | 5,1 mm                        | 18 kg/km      | 36 kg/km               |

|             |         |             |           |
|-------------|---------|-------------|-----------|
| 8 x 26 AWG  | 5,7 mm  | 21,2 kg/km  | 44 kg/km  |
| 12 x 26 AWG | 6,2 mm  | 26,6 kg/km  | 52 kg/km  |
| 16 x 26 AWG | 6,8 mm  | 33,9 kg/km  | 64 kg/km  |
| 18 x 26 AWG | 7,1 mm  | 38,4 kg/km  | 71 kg/km  |
| 25 x 26 AWG | 8,2 mm  | 50 kg/km    | 91 kg/km  |
| 2 x 24 AWG  | 4,4 mm  | 11,2 kg/km  | 25 kg/km  |
| 3 x 24 AWG  | 4,6 mm  | 13,4 kg/km  | 28 kg/km  |
| 4 x 24 AWG  | 4,9 mm  | 17,4 kg/km  | 33 kg/km  |
| 5 x 24 AWG  | 5,2 mm  | 19,6 kg/km  | 38 kg/km  |
| 7 x 24 AWG  | 5,5 mm  | 25,8 kg/km  | 46 kg/km  |
| 8 x 24 AWG  | 6,2 mm  | 28,2 kg/km  | 55 kg/km  |
| 10 x 24 AWG | 6,6 mm  | 34,4 kg/km  | 60 kg/km  |
| 12 x 24 AWG | 6,8 mm  | 38,9 kg/km  | 67 kg/km  |
| 16 x 24 AWG | 7,4 mm  | 49,7 kg/km  | 84 kg/km  |
| 18 x 24 AWG | 7,8 mm  | 54,2 kg/km  | 92 kg/km  |
| 25 x 24 AWG | 9,2 mm  | 73,8 kg/km  | 123 kg/km |
| 2 x 22 AWG  | 4,7 mm  | 13,7 kg/km  | 28 kg/km  |
| 3 x 22 AWG  | 4,9 mm  | 18,9 kg/km  | 34 kg/km  |
| 4 x 22 AWG  | 5,2 mm  | 22,4 kg/km  | 40 kg/km  |
| 5 x 22 AWG  | 5,6 mm  | 27,7 kg/km  | 47 kg/km  |
| 7 x 22 AWG  | 6 mm    | 34,6 kg/km  | 57 kg/km  |
| 8 x 22 AWG  | 6,7 mm  | 40 kg/km    | 68 kg/km  |
| 10 x 22 AWG | 7,2 mm  | 48,8 kg/km  | 78 kg/km  |
| 12 x 22 AWG | 7,4 mm  | 55,8 kg/km  | 87 kg/km  |
| 16 x 22 AWG | 8,1 mm  | 71,7 kg/km  | 110 kg/km |
| 18 x 22 AWG | 8,7 mm  | 78,8 kg/km  | 124 kg/km |
| 25 x 22 AWG | 10,1 mm | 107,4 kg/km | 136 kg/km |
| 2 x 20 AWG  | 5,2 mm  | 20,5 kg/km  | 37 kg/km  |
| 3 x 20 AWG  | 5,4 mm  | 26,5 kg/km  | 44 kg/km  |
| 4 x 20 AWG  | 5,8 mm  | 34,2 kg/km  | 54 kg/km  |
| 5 x 20 AWG  | 6,2 mm  | 40,3 kg/km  | 63 kg/km  |
| 6 x 20 AWG  | 6,7 mm  | 48,1 kg/km  | 74 kg/km  |
| 7 x 20 AWG  | 6,7 mm  | 54 kg/km    | 80 kg/km  |
| 10 x 20 AWG | 8,2 mm  | 76 kg/km    | 109 kg/km |
| 12 x 20 AWG | 8,5 mm  | 87,9 kg/km  | 127 kg/km |
| 18 x 20 AWG | 9,9 mm  | 126,1 kg/km | 179 kg/km |
| 25 x 20 AWG | 11,6 mm | 172,8 kg/km | 238 kg/km |
| 2 x 18 AWG  | 5,6 mm  | 28,8 kg/km  | 47 kg/km  |

|             |         |             |           |
|-------------|---------|-------------|-----------|
| 3 x 18 AWG  | 5,9 mm  | 38,1 kg/km  | 57 kg/km  |
| 4 x 18 AWG  | 6,3 mm  | 49,1 kg/km  | 71 kg/km  |
| 5 x 18 AWG  | 6,9 mm  | 60,3 kg/km  | 86 kg/km  |
| 7 x 18 AWG  | 7,4 mm  | 78,8 kg/km  | 108 kg/km |
| 8 x 18 AWG  | 8,6 mm  | 90,2 kg/km  | 131 kg/km |
| 12 x 18 AWG | 9,6 mm  | 129,4 kg/km | 176 kg/km |
| 18 x 18 AWG | 11,1 mm | 189,5 kg/km | 251 kg/km |
| 25 x 18 AWG | 13,4 mm | 258,9 kg/km | 346 kg/km |
| 2 x 16 AWG  | 6 mm    | 34,1 kg/km  | 54 kg/km  |
| 3 x 16 AWG  | 6,2 mm  | 45,9 kg/km  | 67 kg/km  |
| 4 x 16 AWG  | 6,7 mm  | 59,6 kg/km  | 83 kg/km  |
| 5 x 16 AWG  | 7,3 mm  | 73,3 kg/km  | 101 kg/km |
| 7 x 16 AWG  | 7,9 mm  | 99 kg/km    | 130 kg/km |
| 8 x 16 AWG  | 9,1 mm  | 113,1 kg/km | 157 kg/km |
| 12 x 16 AWG | 10,2 mm | 162,8 kg/km | 212 kg/km |

Other dimensions and colours are possible on request.