

## DESIGN

### Conductor

Solid Bare Copper (Construction: 1x0.60mm)

### Insulation

Polyethylene (PE)

### Cores:

Brown – White/Brown, Blue-White/Blue, Green-White/Green, Orange-White/Orange

### Tape:

Twisted conductors in pair, corded on a helical separator

### Outer sheath:

Polyethylene (PE), Black RAL 9005

## APPLICATIONS

Unshielded twisted pair cable for Cat. 6 networks (up to 250 MHz). The polyethylene jacket (PE) makes the cable suitable for direct underground installation.

## TECHNICAL DATA

|                                  |                             |
|----------------------------------|-----------------------------|
| <b>Conductor Loop Resistance</b> | 140 Ω/Km                    |
| <b>Mutual Capacity C1</b>        | 56 pF/m                     |
| <b>Velocity Ratio</b>            | 68%                         |
| <b>Voltage Rating Uo/U</b>       | 500V                        |
| <b>Test Voltage</b>              | 1200V (AC)                  |
| <b>Insulation Resistance</b>     | >20 MOhm/KM                 |
| <b>Temperature Range</b>         | -15°C - +70°C (Fixed)       |
| <b>Minimum Bending Radius</b>    | 10x Diameter (Fixed)        |
| <b>CPR</b>                       | FCA (According to EN 50575) |

| Frequency (MHz)                  | 1.0  | 4.0  | 10.0 | 16.0 | 20.0 | 31.3 | 62.5 | 100.0 | 200.0 | 300.0 | 500.0 |
|----------------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| <b>Attenuation (dB / 100 MT)</b> | 1.9  | 3.7  | 5.9  | 7.5  | 8.4  | 10.6 | 15.4 | 19.8  | 29.0  | 36.4  | 48.9  |
| <b>Next (Min. DB)</b>            | 84.8 | 72.8 | 64.8 | 60.7 | 58.8 | 54.9 | 48.9 | 44.8  | 38.8  | 36.0  | 31.0  |

## DIMENSIONS

| Section (mm <sup>2</sup> ) | Insulation Diameter (mm) | Outer Diameter (mm) | Approx. Weight (kg/km) |
|----------------------------|--------------------------|---------------------|------------------------|
| 4x2xAWG23/1                | 1.05 ± 0.05              | 6.80 ± 0.10         | 46.5                   |