# H1000 PVC

## Application

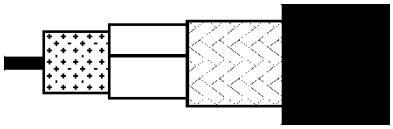
Coaxial cable used with antenna's or in mobile communication networks for outdoor use

## Key features

- All copper conductor material
- Small static bend radius
- Test methods in accordance with International Standard IEC 1196.
- Designed according the International Standard IEC 1196.

## Construction & Dimensions

1 2 3.1 3.2 4



| | | |
|---|---|---|
| 1 | Inner conductor | Solid soft annealed copper |
| 2 | Dielectric | Gas injected PE |
| 3.1 | Foil | Copper |
| 3.2 | Braid | Annealed copper |
| 4 | Sheath | PVC according the European Standard HD 624. |

| | |
|---|---|
| 1. Inner conductor diameter: | 2.62 mm ± 0.03 mm |
| 2. Dielectric diameter: | 7.15 mm ± 0.2 mm |
| 3. Outer conductor diameter: | 7.8 mm ± 0.25 mm |
| 4. Sheath diameter: | 10.3 mm ± 0.3 mm |

## Mechanical characteristics

| | |
|---|---|
| Adhesion of dielectric: | 41 – 410 N at 50 mm |
| Tensile strength of sheath: | ≥ 12.5 N/mm$^2$ |
| Elongation of sheath at break: | ≥ 150 % |
| Crush resistance of cable: | < 1% (load of 700N) |
| Storage temperature: | -40°C to +70°C |
| Operating temperature: | -40°C to +70°C |
| Minimum installation temperature: | -5 °C |
| Minimum static bend radius: | 100 mm |
| Total weight: | 141 g/m |

Belden Wire & Cable B.V.
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner

# H1000 PVC

## Electrical characteristics

| | |
|---|---|
| Mean characteristic impedance: | 50 ± 2 Ω |
| Regularity of impedance: | > 46 dB |
| DC loop resistance: | ≤ 12.3 Ω/km |
| DC resistance inner conductor: | ≤ 3.5 Ω/km |
| DC resistance outer conductor: | ≤ 8.8 Ω/km |
| Capacitance: | 80 pF/m ± 3 pF/m |
| Velocity ratio: | 0.83 ± 0.02 |
| Insulation resistance: | > $10^4$ MΩ.km |
| Voltage test of dielectric: | 3 kVdc |
| Screening efficiency 30-1000 MHz: | ≥ 90 dB |

| Attenuation at | Nominal | Attenuation at | Nominal |
|---|---|---|---|
| 5 MHz: | 0.8 dB/100m | 1000 MHz: | 14.0 dB/100m |
| 50 MHz: | 2.8 dB/100m | 1350 MHz: | 16.7 dB/100m |
| 100 MHz: | 4.0 dB/100m | 1750 MHz: | 19.5 dB/100m |
| 200 MHz: | 5.7 dB/100m | 2150 MHz: | 22.1 dB/100m |
| 400 MHz: | 8.4 dB/100m | 2400 MHz: | 23.6 dB/100m |
| 600 MHz: | 10.5 dB/100m | 5000 MHz: | 37.4 dB/100m |
| 800 MHz: | 12.3 dB/100m | | |

Maximum attenuation is 10% higher.

## Ordering information

**COLOR**
Sheath: BLACK

**MARKING**
Standard text Inkjet printing

| |
|---|
| BELDEN VENLO HOLLAND YYYY H1000 SUPER LOW LOSS 50 OHM CABLE |

YYYY: Year of production.

**PACKAGING**

| Belden code | Delivery length | Remark |
|---|---|---|
| 46531 xxxx 242 | 500 m ± 2% | Non returnable reel |
| 46531 xxxx 245 | 1000 m ± 5% | Non returnable reel |

xxxx: Color code

Belden Wire & Cable B.V.
All rights are reserved. Reproduction in whole or in part is prohibited without the written consent of the copyright owner