

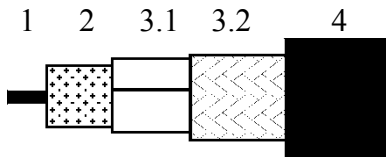
Application

Coaxial cables used with radio antenna's and in mobile communication networks

Key features

- 3/8 inch flexible 50 Ohm coaxial cable for outdoor use
- Designed according International Standard IEC 1196
- Designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz
- Test methods in accordance with European standard EN 50117-1.

Construction & Dimensions



| | | |
|-----|-----------------|--|
| 1 | Inner conductor | Soft annealed copper |
| 2 | Dielectric | Gas injected PE |
| 3.1 | Foil | Copper - PET |
| 3.2 | Braid | Copper |
| 4 | Sheath | PE (black) according the European Standard HD 624. |

| | |
|-------------------------------------|--------------|
| 1. Inner conductor diameter: | 19 x 0.54 mm |
| 2. Dielectric diameter: | 7.15 mm |
| 3. Outer conductor diameter screen: | 7.9 mm |
| 4. Sheath diameter: | 10.3 mm |

Mechanical characteristics

| | |
|-----------------------------------|----------------|
| Storage temperature: | -40°C to +80°C |
| Operating temperature: | -40°C to +80°C |
| Minimum installation temperature: | -5 °C |
| Minimum static bend radius: | 60 mm |
| Total weight: | 109 g/m |



Electrical characteristics

| | |
|-----------------------------------|------------|
| Mean characteristic impedance: | 50 Ω |
| DC loop resistance: | ≤ 15 Ω/km |
| DC resistance inner conductor: | ≤ 4.0 Ω/km |
| DC resistance outer conductor: | ≤ 11 Ω/km |
| Capacitance: | 80 pF/m |
| Velocity ratio: | 0.83 |
| Screening efficiency 30-1000 MHz: | ≥ 80 dB |
| Return loss at 5-470 MHz: | ≥ 22 dB* |
| 470-862 MHz: | ≥ 16 dB* |

* max. peak values 4 dB lower than specified

| | | | |
|----------------|-------------|----------------|--------------|
| Attenuation at | Nominal | Attenuation at | Nominal |
| 10 MHz: | 1.5 dB/100m | 470 MHz: | 10.6 dB/100m |
| 50 MHz: | 3.3 dB/100m | 860 MHz: | 14.9 dB/100m |
| 100 MHz: | 4.6 dB/100m | 1000 MHz: | 16.2 dB/100m |
| 230 MHz: | 7.2 dB/100m | 1350 MHz: | 19.2 dB/100m |
| 300 MHz: | 8.3 dB/100m | 1750 MHz: | 22.4 dB/100m |
| 400 MHz: | 9.7 dB/100m | 2050 MHz: | 24.5 dB/100m |

Ordering information

MARKING

| | |
|---|---------------------|
| Text | Inkjet printing |
| BELDEN VENLO HOLLAND YYYY H1001 SUPER LOW LOSS 50 OHM CABLE | |
| YYYY: | Year of production. |

PACKAGING (PUT UP)

| Belden code | Delivery length | Remark |
|----------------|-----------------|---------------------|
| 49205 xxxx 242 | 500 m ± 5% | Non returnable reel |

xxxx: Color code

Note: Other packaging or lengths on request.