

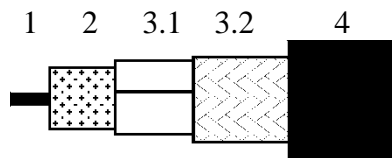
Application

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

Key features

- Flexible 50 Ohm coaxial cable for outdoor use
- All copper conductor material
- Designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz and the International Standard IEC 1196
- Test methods in accordance with European standard EN 50117-1.

Construction & Dimensions



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

1. Inner conductor diameter:	2.5 mm
2. Dielectric diameter:	7.0 mm
3. Outer conductor diameter screen:	7.5 mm
4. Sheath diameter:	9.8 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:	75 mm
Total weight:	107 g/m



Electrical characteristics

Mean characteristic impedance:	50 Ω
DC loop resistance:	≤ 14 Ω/km
DC resistance inner conductor:	≤ 3.5 Ω/km
DC resistance outer conductor:	≤ 10.7 Ω/km
Capacitance:	82 pF/m
Velocity ratio:	0.81
Screening efficiency 30-1000 MHz:	≥ 85 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:	1.3 dB/100m	470 MHz:	9.5 dB/100m
50 MHz:	2.9 dB/100m	860 MHz:	13.4 dB/100m
100 MHz:	4.1 dB/100m	1000 MHz:	14.6 dB/100m
230 MHz:	6.5 dB/100m	1350 MHz:	17.4 dB/100m
300 MHz:	7.5 dB/100m	1750 MHz:	20.3 dB/100m
400 MHz:	8.7 dB/100m	2050 MHz:	22.3 dB/100m

Ordering information

COLOR

Sheath: BLACK

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY SUPER LOW LOSS 50 OHM COAXIAL CABLE H500
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YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
49305 xxxx 240	250 m ± 5%	Non returnable reel
49305 xxxx 242	500 m ± 5%	Non returnable reel

xxxx: Color code

Other color or marking on request.