

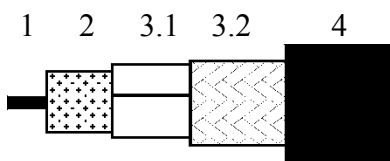
Application

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

Key features

- 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
3.2	Braid	Copper
4	Sheath	PE (black) according the European Standard HD 624.

1. Inner conductor diameter:	2.62 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:	75 mm
Total weight:	120 g/m

Electrical characteristics

Mean characteristic impedance:	50 Ω
DC loop resistance:	$\leq 11 \Omega/\text{km}$
DC resistance inner conductor:	$\leq 3.2 \Omega/\text{km}$
DC resistance outer conductor:	$\leq 7.9 \Omega/\text{km}$
Capacitance:	80 pF/m
Velocity ratio:	0.83
Screening efficiency 30-1000 MHz:	$\geq 85 \text{ dB}$
Return loss at 5-470 MHz:	$\geq 22 \text{ dB}^*$
470-862 MHz:	$\geq 16 \text{ dB}^*$
* max. peak values 4 dB lower than specified	

Attenuation at	Nominal	Attenuation at	Nominal
10 MHz:	1.2 dB/100m	470 MHz:	9.1 dB/100m
50 MHz:	2.7 dB/100m	860 MHz:	12.8 dB/100m
100 MHz:	3.9 dB/100m	1000 MHz:	13.9 dB/100m
230 MHz:	6.1 dB/100m	1350 MHz:	16.6 dB/100m
300 MHz:	7.0 dB/100m	1750 MHz:	19.4 dB/100m
400 MHz:	8.3 dB/100m	2050 MHz:	21.3 dB/100m

Ordering information

MARKING

Text Inkjet printing

BELDEN VENLO HOLLAND YYYY H1000 SUPER LOW LOSS 50 OHM CABLE

YYYY: Year of production.

PACKAGING (PUT UP)

Belden code	Delivery length	Remark
49025 xxxx 242	500 m $\pm$ 5%	Non returnable reel

xxxx: Color code

Note: Other packaging or lengths on request.

Supplier:-

JW Hardy Communications
231 Station Road,
Stechford,
Birmingham.

B33 8BB

Tel: 0121 784 8478
Fax: 0121 789 7931
e-mail: sales@jwhardy.co.uk
www.jwhardy.co.uk