

Application

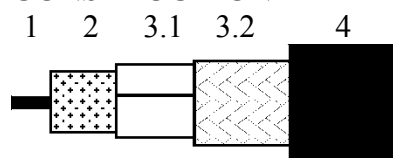
Coaxial cable used for radio frequency networks and in mobile communication networks designed according the international standard IEC 1196 and EN-50117

Key features

- Flexible 50 Ohm coaxial cable for outdoor use
- Designed according the 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

Construction & Dimensions

CONSTRUCTION



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

Electrical characteristics

Mean characteristic impedance:	50 ± 2 Ω		
DC loop resistance:	≤ 11 Ω/km		
DC resistance inner conductor:	≤ 3.2 Ω/km		
DC resistance outer conductor:	≤ 7.9 Ω/km		
Capacitance:	80 pF/m		
Velocity ratio:	0.83 ± 0.02		
Screening efficiency 30-1000 MHz:	≥ 85 dB		
Return loss at 5- 470 MHz:	≥ 22 dB		
	470 –862 MHz :	≥ 23.5 dB	
Attenuation at	Nominal	Attenuation at	Nominal
10 MHz:	1.3 dB/100m	470 MHz:	10.0 dB/100m
50 MHz:	3.0 dB/100m	860 MHz:	14.1 dB/100m
100 MHz:	4.3 dB/100m	1000 MHz:	15.3 dB/100m
230 MHz:	6.8 dB/100m	1350 MHz:	18.3 dB/100m
300 MHz:	7.7 dB/100m	1750 MHz:	21.3 dB/100m
400 MHz:	9.1 dB/100m	2050 MHz:	23.4 dB/100m

Maximum attenuation is 10% higher.

Ordering information

MARKING

Text Inkjet printing

BELDEN VENLO HOLLAND YYYY H1000 SUPER LOW LOSS 50 OHM CABLE

Metermarking: Yes

YYYY: Year of production.

Other marking on request.

PACKAGING

Belden code	Delivery length	Remark
49025 xxxx 242	500 m ± 2%	Non returnable reel

xxxx: Color code

Other packaging or lengths on request.