

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

Date 9-01-2002

H1000 PE



Electrical characteristics

Electrical chara	cteristics		
Mean characterist	tic impedance:	$50 \pm 2 \ \Omega$	
DC loop resistant	e:	$\leq 11 \ \Omega/km$	
DC resistance inr	er conductor:	$\leq 3.2 \ \Omega/\mathrm{km}$	
DC resistance out	ter conductor:	$\leq 7.9 \ \Omega/km$	
Capacitance:		80 pF/m	
Velocity ratio:		0.83 ± 0.02	
Screening efficient	ncy 30-1000 MHz:	\geq 85 dB	
Return loss at	5-470 MHz:	\geq 22 dB	
	470–862 MHz :	\geq 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 H	HOLLAND YYYY H1000 SUPER LOW LOSS 50 OHM CABLE
Metermarking:	Yes
YYYY:	Year of production.
Other marking on rec	juest.

PACKAGING

Belden code	Delivery length	Remark
49025 xxxx 242	$500 \text{ m} \pm 2\%$	Non returnable reel
XXXX:	Color code	

Other packaging or lengths on request.