

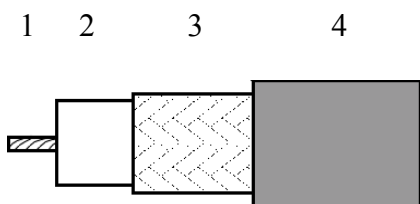
### Application

Connection coaxial cable used in HFC / CATV broadband communication networks

### Key features

- All copper conductor material
- Highly flexible coax cable
- Test methods in accordance with European standard EN 50117-1.
- Designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz and the International Standard IEC 1196.

### Construction & Dimensions



1	Inner conductor	Stranded soft annealed copper (7x0.20 mm)
2	Dielectric	Solid PE
3	Braid	Annealed bare copper
	Coverage braid:	90 % ± 5 %
4	Sheath	PVC according the European Standard HD 624.

1. Inner conductor diameter:	0.6 mm ± 0.02mm
2. Dielectric diameter:	3.5 mm ± 0.15 mm
3. Outer conductor diameter screen:	4.05 mm ± 0.15 mm
4. Sheath diameter:	5.6 mm ± 0.3 mm

### Mechanical characteristics

Adhesion of dielectric:	4.7 – 47 N at 25 mm
Tensile strength of sheath:	≥ 12.5 N/mm <sup>2</sup>
Elongation of sheath at break:	≥ 150 %
Crush resistance of cable:	< 1% (load of 700N)
Storage temperature:	-40°C to +70°C
Operating temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	25 mm
Total weight:	41.6 g/m



**Electrical characteristics**

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 92 Ω/km
DC resistance inner conductor:	≤ 79.5 Ω/km
DC resistance outer conductor:	≤ 12.5 Ω/km
Capacitance:	67 pF/m ± 2 pF/m
Velocity ratio:	0.66 ± 0.02
Insulation resistance:	> 10 <sup>4</sup> MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	≥ 50 dB
Return loss at 5-30 MHz:	≥ 20 dB*
30-470 MHz:	≥ 20 dB*
470-862 MHz:	≥ 18 dB*
862-2400 MHz:	≥ 16 dB*

\*Max. 3 peak values 4 dB lower than specified.

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	2.9 dB/100m	1000 MHz:	44.1 dB/100m
50 MHz:	9.4 dB/100m	1350 MHz:	51.7 dB/100m
100 MHz:	13.3 dB/100m	1600 MHz:	56.7 dB/100m
200 MHz:	19.0 dB/100m	1750 MHz:	59.5 dB/100m
400 MHz:	27.2 dB/100m	2150 MHz:	66.5 dB/100m
600 MHz:	33.7 dB/100m	2400 MHz:	70.6 dB/100m
800 MHz:	39.2 dB/100m		

Maximum attenuation is 10% higher.

**Ordering information**

**MARKING**

Standard text                      Inkjet printing

BELDEN VENLO HOLLAND YYYY 75 OHM
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YYYY:                      Year of production.

**PACKAGING**

Belden code	Delivery length	Remark
43340 xxxx 172	100 m ± 2%	Carton box
43340 xxxx 011	500 m ± 2%	Non returnable reel

xxxx:                      Color code

Other marking on request.