

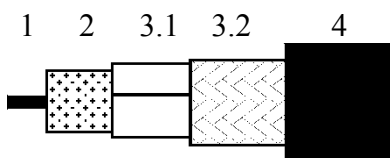
### Application

Drop coaxial cable used in HFC / CATV broadband communication networks or SATV

### Key features

- All copper conductor material
- Coaxial cable fit for standard connector usage
- 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	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PVC according the European Standard HD 624.

1. Inner conductor diameter:	1.0 mm ± 0.02 mm
2. Dielectric diameter:	4.8 mm ± 0.15 mm
3. Outer conductor diameter screen:	5.24 mm ± 0.2 mm
4. Sheath diameter:	6.8 mm ± 0.2 mm

### Mechanical characteristics

Adhesion of dielectric:	7.8 – 78 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
Maximum tensile strength of cable:	55 N
Minimum static bend radius:	70 mm
Total weight:	46 g/m



**Electrical characteristics**

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 41 Ω/km
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance outer conductor:	≤ 18 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 <sup>4</sup> MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	≥ 85 dB
Return loss at 5-30 MHz:	≥ 23 dB*
30-470 MHz:	≥ 23 dB*
470-862 MHz:	≥ 20 dB*
862-2400 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.3 dB/100m	800 MHz:	18.0 dB/100m
50 MHz:	4.2 dB/100m	1000 MHz:	20.4 dB/100m
100 MHz:	6.0 dB/100m	1350 MHz:	24.1 dB/100m
200 MHz:	8.6 dB/100m	1750 MHz:	27.9 dB/100m
400 MHz:	12.4 dB/100m	2150 MHz:	31.4 dB/100m
600 MHz:	15.4 dB/100m	2400 MHz:	33.5 dB/100m

Maximum attenuation is 0.5 dB/100m higher.

**Ordering information**

**MARKING**

Standard text      Inkjet printing

BELDEN VENLO HOLLAND YYYY H125
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Metermarking:      Yes

YYYY:                Year of production.

**PACKAGING**

Belden code	Delivery length	Remark
46477 xxxx 172	100 m ± 2%	Carton box
46477 xxxx 011	250 m ± 2%	Non returnable reel
46477 xxxx 240	500 m ± 2%	Non returnable reel

xxxx:                Color code

Other marking or color on request.

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