

Application

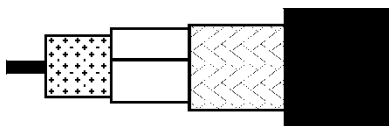
Drop coaxial cable used in HFC / CATV broadband communication networks and SATV

Key features

- Small outer diameter and small static bend radius
- All copper conductor material
- 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 2 3.1 3.2 4



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:	0.8 mm ± 0.015 mm
2. Dielectric diameter:	3.5 mm ± 0.15 mm
3. Outer conductor diameter screen:	4.1 mm ± 0.15 mm
4. Sheath diameter:	5.0 mm ± 0.3 mm

Mechanical characteristics

Adhesion of dielectric:	6.3 – 63 N at 25 mm
Tensile strength of sheath:	≥ 12.5 N/mm ²
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:	50 mm
Total weight:	26.7 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 59 Ω/km
DC resistance inner conductor:	≤ 35 Ω/km
DC resistance outer conductor:	≤ 24 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	≥ 85 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:	1.7 dB/100m	1000 MHz:	25.0 dB/100m
50 MHz:	5.3 dB/100m	1350 MHz:	29.3 dB/100m
100 MHz:	7.6 dB/100m	1600 MHz:	32.2 dB/100m
200 MHz:	10.8 dB/100m	1750 MHz:	33.8 dB/100m
400 MHz:	15.4 dB/100m	2150 MHz:	37.8 dB/100m
600 MHz:	19.1 dB/100m	2400 MHz:	40.1 dB/100m
800 MHz:	22.2 dB/100m		

Maximum attenuation is 10% higher.

Ordering information

COLOR

Sheath: WHITE

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY H121

Metermarking: Yes

YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
46471 xxxx 172	100 m ± 2%	Carton box
46471 xxxx 011	500 m ± 2%	Non returnable reel

xxxx: Color code

Other color or marking on request.