

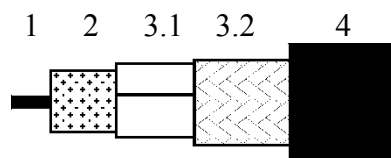
Application

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

Key features

- Copper based conductor material
- Small static bend radius
- 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	AL-PET-AL
3.2	Braid	Annealed tinned 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:	5.34 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 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
Maximum tensile strength of cable:	55 N
Minimum static bend radius:	35 mm
Total weight:	48 g/m



Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Regularity of impedance:	$> 40 \text{ dB}$
DC loop resistance:	$\leq 50 \Omega/\text{km}$
DC resistance inner conductor:	$\leq 23 \Omega/\text{km}$
DC resistance outer conductor:	$\leq 27 \Omega/\text{km}$
Capacitance:	$55 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	$\geq 85 \text{ dB}$
Return loss at 5-30 MHz:	$\geq 23 \text{ dB}^*$
30-470 MHz:	$\geq 23 \text{ dB}^*$
470-862 MHz:	$\geq 20 \text{ dB}^*$
862-2400 MHz:	$\geq 18 \text{ dB}^*$

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.4 dB/100m	800 MHz:	18.8 dB/100m
50 MHz:	4.4 dB/100m	1000 MHz:	21.2 dB/100m
100 MHz:	6.2 dB/100m	1350 MHz:	25.1 dB/100m
200 MHz:	8.9 dB/100m	1750 MHz:	29.0 dB/100m
400 MHz:	12.9 dB/100m	2150 MHz:	32.7 dB/100m
600 MHz:	16.0 dB/100m	2400 MHz:	34.8 dB/100m

Maximum attenuation is 10% higher.

Ordering information

COLOR

Sheath: BLACK or WHITE

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY H125

Metermarking: Yes

YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
46401 xxxx 172	100 m \pm 2%	Carton box
46401 xxxx 240	500 m \pm 2%	Non returnable reel

xxxx: Color code

Other color or marking on request.