

Application

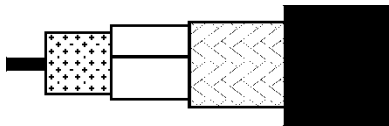
Distribution coaxial cable used in HFC / CATV communication networks for burial use

Key features

-
- Copper based 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	AL-PET-AL
3.2	Braid	Annealed tinned copper
4	Sheath	PE according the European Standard HD 624.

1. Inner conductor diameter:	1.55 mm ± 0.02 mm
2. Dielectric diameter:	7.25 mm ± 0.2 mm
3. Outer conductor diameter:	7.9 mm ± 0.25 mm
4. Sheath diameter:	10.1 mm ± 0.3 mm

Mechanical characteristics

Adhesion of dielectric:	12 – 120 N at 25 mm
Tensile strength of sheath:	≥ 10 N/mm ²
Elongation of sheath at break:	≥ 300 %
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:	78 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 22.2 Ω/km
DC resistance inner conductor:	≤ 9.4 Ω/km
DC resistance outer conductor:	≤ 12.8 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	3 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 – 2150 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9 dB/100m	1000 MHz:	14.2 dB/100m
50 MHz:	2.9 dB/100m	1350 MHz:	16.8 dB/100m
100 MHz:	4.1 dB/100m	1600 MHz:	18.5 dB/100m
200 MHz:	5.9 dB/100m	1750 MHz:	19.5 dB/100m
400 MHz:	8.6 dB/100m	2150 MHz:	21.9 dB/100m
600 MHz:	10.7 dB/100m	2400 MHz:	23.4 dB/100m
800 MHz:	12.5 dB/100m		

Maximum attenuation is 0.5 dB/100m higher.

Ordering information

COLOR

Sheath: BLACK

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY PRG11 AL

Metermarking: Yes

YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
49002 xxxx 242	500 m ± 2%	Non returnable reel

xxxx: Color code

Other color and marking on request.