

Application

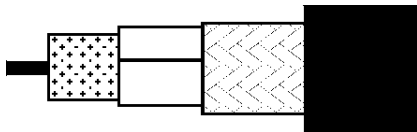
Trunk coaxial cable used in HFC / CATV broadband communication networks

Key features

- All copper conductor material
- High bending flexibility
- 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	PE according the European Standard HD 624.

1. Inner conductor diameter:	2.23 mm ± 0.03 mm
2. Dielectric diameter:	10.2 mm ± 0.2 mm
3. Outer conductor diameter screen:	11.0 mm ± 0.3 mm
4. Sheath diameter:	13.8 mm ± 0.3 mm

Mechanical characteristics

Adhesion of dielectric:	35 – 350 N at 50 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
Maximum tensile strength of cable:	400 N
Minimum static bend radius:	150 mm
Total weight:	170 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 9.0 Ω/km
DC resistance inner conductor:	≤ 4.5 Ω/km
DC resistance outer conductor:	≤ 4.5 Ω/km
Capacitance:	54 pF/m ± 2 pF/m
Velocity ratio:	0.82 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	3 kVdc
Screening efficiency 30-1000 MHz:	≥ 100 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:	0.6 dB/100m	800 MHz:	8.8 dB/100m
50 MHz:	1.9 dB/100m	1000 MHz:	10.0 dB/100m
100 MHz:	2.8 dB/100m	1350 MHz:	11.9 dB/100m
200 MHz:	4.0 dB/100m	1750 MHz:	13.9 dB/100m
400 MHz:	5.9 dB/100m	2150 MHz:	15.7 dB/100m
600 MHz:	7.4 dB/100m	2400 MHz:	16.8 dB/100m

Maximum attenuation is 5 % higher.

Ordering information

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY COAX 4 FOAM FB
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Metermarking: Yes

YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
49307 xxxx 025	500 m ± 2%	Non returnable reel
49307 xxxx 042	1000 m ± 5%	Non returnable reel

xxxx: Color code

Other marking on request.