

Application

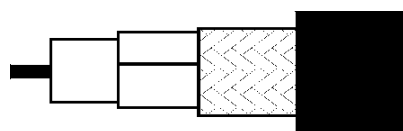
Trunk coaxial cable used in HFC / CATV broadband communication networks for burial use

Key features

- Physical foam PE dielectric
- 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	Physical foam PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PE according the European Standard HD 624.

1. Inner conductor diameter:	3.38 mm ± 0.03 mm
2. Dielectric diameter:	14.9 mm ± 0.2 mm
3. Outer conductor diameter:	15.8 mm ± 0.3 mm
4. Sheath diameter:	19.8 mm ± 0.4 mm

Mechanical characteristics

Adhesion of dielectric:	53 – 530 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:	2000 N
Minimum static bend radius:	220 mm
Total weight:	289 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 4 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 4.9 Ω/km
DC resistance inner conductor:	≤ 2.1 Ω/km
DC resistance outer conductor:	≤ 2.9 Ω/km
Capacitance:	58 pF/m ± 2 pF/m
Velocity ratio:	0.78 ± 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:	≥ 28 dB*
30-470 MHz:	≥ 28 dB*
470-862 MHz:	≥ 25 dB*
862-2400 MHz:	≥ 21 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.5 dB/100m	600 MHz:	5.3 dB/100m
50 MHz:	1.4 dB/100m	800 MHz:	6.2 dB/100m
100 MHz:	2.0 dB/100m	1000 MHz:	7.1 dB/100m
200 MHz:	3.0 dB/100m	1350 MHz:	8.6 dB/100m
400 MHz:	4.5 dB/100m	1750 MHz:	9.9 dB/100m

Maximum attenuation is 10 % higher.

Ordering information

MARKING

Text Inkjet printing

BELDEN VENLO HOLLAND YYYY COAX 3 FOAM FB20
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Metermarking: Yes

YYYY: Year of production.

Other marking on request.

PACKAGING

Belden code	Delivery length	Remark
49047 xxxx 043	700 m ± 5%	Non returnable reel
xxxx:	Color code	

Other packaging or lengths on request.