

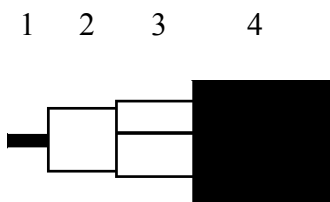
Application

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

Key features

- All copper conductor material
- High bending flexibility
- Coaxial cable fit for standard connector and stripping tool usage
- 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	Foil	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:	15.3 mm ± 0.3 mm
4. Sheath diameter:	18.0 mm ± 0.3 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 +80°C
Operating temperature:	-40°C to +80°C
Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	1200 N
Minimum static bend radius:	180 mm
Total weight:	267 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 4.5 Ω/km
DC resistance inner conductor:	≤ 1.9 Ω/km
DC resistance outer conductor:	≤ 2.6 Ω/km
Capacitance:	54 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 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:	≥ 26 dB*
30-470 MHz:	≥ 26 dB*
470-862 MHz:	≥ 22 dB*
862-2400 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.4 dB/100m	800 MHz:	5.7 dB/100m
50 MHz:	1.3 dB/100m	1000 MHz:	6.5 dB/100m
100 MHz:	1.8 dB/100m	1350 MHz:	7.7 dB/100m
200 MHz:	2.6 dB/100m	1750 MHz:	9.0 dB/100m
400 MHz:	3.9 dB/100m	2150 MHz:	10.2 dB/100m
600 MHz:	4.8 dB/100m	2400 MHz:	10.9 dB/100m

Maximum attenuation is 5 % higher.

Ordering information

COLOR

Sheath: GREEN

MARKING

Standard text Inkjet printing

BELDEN VENLO HOLLAND YYYY COAX 3 FOAM F18

Metermarking: Yes

YYYY: Year of production.

PACKAGING

Belden code	Delivery length	Remark
49048 xxxx 043	700 m ± 5%	Non returnable reel
xxxx:	Color code	

Other color or marking on request.