

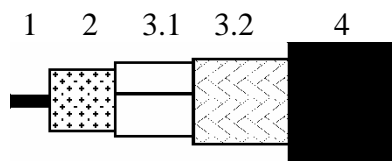
Datasheet

COAX H121 CU PVC

APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117 operating at frequencies between 5 MHz and 2150 MHz and the International Standard IEC 1196.

CONSTRUCTION



1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PVC according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor:		
Diameter:		0.8 mm ± 0.015 mm
2. Dielectric:		
Diameter:		3.5 mm ± 0.15 mm
Adhesion:		6.3 – 63 N at 25 mm
3. Outer conductor:		
Diameter screen:		4.1 mm ± 0.15 mm
Foil overlap:		≥ 2 mm
Coverage braid:		44 % ± 4 %
4. Sheath:		
Diameter:		5.0 mm ± 0.3 mm
Tensile strength:		≥ 12.5 N/mm ²
Elongation at break:		≥ 150 %
5. Cable:		
Crush resistance of cable:		< 1% (load of 700N)
Storage/operating temperature:		-15°C to +70°C
Minimum installation temperature:		-5 °C
Minimum static bend radius:		50 mm
Total weight:		26.7 g/m



Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 59 Ω/km
DC resistance inner conductor:	≤ 35 Ω/km
DC resistance outer conductor:	≤ 24 Ω/km
Capacitance:	53 pF/m ± 2 pF/m
Velocity ratio:	0.84 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency 30-1000 MHz:	≥ 85 dB
Return loss at 5-30 MHz:	≥ 20 dB*
30-470 MHz:	≥ 20 dB*
470-862 MHz:	≥ 18 dB*
862-2400 MHz:	≥ 16 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.7 dB/100m	1000 MHz:	25.0 dB/100m
50 MHz:	5.3 dB/100m	1350 MHz:	29.3 dB/100m
100 MHz:	7.6 dB/100m	1600 MHz:	32.2 dB/100m
200 MHz:	10.8 dB/100m	1750 MHz:	33.8 dB/100m
400 MHz:	15.4 dB/100m	2150 MHz:	37.8 dB/100m
600 MHz:	19.1 dB/100m	2400 MHz:	40.1 dB/100m
800 MHz:	22.2 dB/100m		

Maximum attenuation is 10% higher.

MARKING

Text	Inkjet printing
<div style="border: 1px solid black; padding: 2px;">BELDEN VENLO HOLLAND YYYY H121</div>	
Metermarking:	Yes
YYYY:	Year of production.
Other marking on request.	

PACKAGING

Belden code	Delivery length	Remark
46471 xxxx 172	100 m ± 2%	Carton box
xxxx:	Color code	

Other packaging or lengths on request.

RS CODE:
520-3046