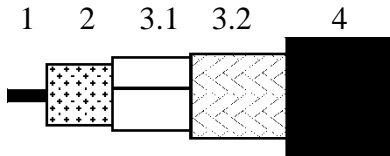


APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1/2 operating at frequencies between 5 MHz and 1000 MHz and the International Standard IEC 1196.

**CONSTRUCTION**

1	Inner conductor	Copper Clad steel
2	Dielectric	Gas injected PE
3.1	Foil	AL-PET bonded
3.2	Braid	Aluminum
4	Sheath	PVC

REQUIREMENTS

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

Mechanical characteristics

1. Inner conductor:	
Diameter:	1.02 ± 0.05 mm
2. Dielectric:	
Diameter:	4.6 ± 0.2 mm
Adhesion:	5 to 80N @ 25mm
3. Outer conductor:	
Nominal diameter screen:	5.25 mm
Foil overlap:	≥ 1 mm
Coverage braid:	56 % ± 5 %
4. Sheath coax:	
Material:	PVC
Diameter:	6.9 ± 0.2 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:	-40°C to +70°C
Minimum static bend radius:	70 mm

Coax RG6 AL PVC

Electrical characteristics single coax

Mean characteristic impedance	75 ± 3 Ω
DC resistance inner conductor:	≤ 105 Ω/km
DC resistance outer conductor:	≤ 51 Ω/km
Capacitance:	nominal 54 pF/m
Velocity ratio:	0.82+/-0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	2 kVdc
Screening efficiency	50-650 MHz: ≥ 65 dB 650-1000 MHz: ≥ 75 dB

Return loss at	5-470 MHz:	≥ 20 dB*
	470-1000 MHz:	≥ 18 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	2.8 dB/100m	400 MHz:	13.0 dB/100m
50 MHz:	4.9 dB/100m	600 MHz:	16.3 dB/100m
100 MHz:	6.5 dB/100m	800 MHz:	18.9 dB/100m
200 MHz:	9.0 dB/100m	1000 MHz:	21.8 dB/100m

Maximum attenuation is 10% higher.

Rev. number	Description	Date	Initials
1	Introduction of specification	27-03-2012	PBo



Belden declares this product to be in compliance with the environmental regulations EU RoHS (Directive 2002/95/EC, 27 January 2003); this is valid for all material produced after the RoHS compliant date for this product.

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