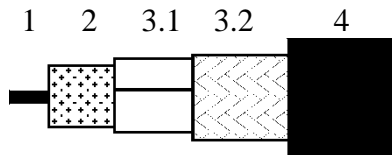
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APPLICATION

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	AL-PET-AL
3.2	Braid	Annealed tinned copper
4	Sheath	LSNH/FRNC according the European Standard HD 624.

REQUIREMENTS AND TEST METHODS

Mechanical characteristics

1. Inner conductor:	
Diameter:	1.0 mm ± 0.02 mm
2. Dielectric:	
Diameter:	4.57 mm ± 0.15 mm
3. Outer conductor:	
foil	AL-PET-AL
Diameter screen:	5.3 mm ± 0.2 mm
Coverage braid:	63 % ± 5 %
4. Sheath:	
Diameter:	6.9 mm ± 0.2 mm
Tensile strength:	≥ 9.0 N/mm ²
Elongation at break:	≥ 125 %
Corrosivity	European Standard HD602
Resistance to flame propagation:	IEC 60332-1
5. Cable:	
Storage/operating temperature:	-15°C to +70°C
Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	55 N
Minimum setting/bending radius:	35 / 70 mm

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Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC loop resistance:	≤ 41 Ω/km
DC resistance inner conductor:	≤ 23 Ω/km
DC resistance outer conductor:	≤ 18 Ω/km
Capacitance:	54 pF/m ± 2 pF/m
Velocity ratio:	0.82 ± 0.02
Voltage test of dielectric:	2 kVdc

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	1.4 dB/100m	1000 MHz:	21.1 dB/100m
50 MHz:	4.4 dB/100m	1350 MHz:	24.8 dB/100m
100 MHz:	6.3 dB/100m	1600 MHz:	27.2 dB/100m
200 MHz:	9.0 dB/100m	1750 MHz:	28.6 dB/100m
400 MHz:	12.9 dB/100m	2150 MHz:	32.0 dB/100m
600 MHz:	16.0 dB/100m	2400 MHz:	34.0 dB/100m
800 MHz:	18.7 dB/100m		

Maximum attenuation is 10% higher.



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.