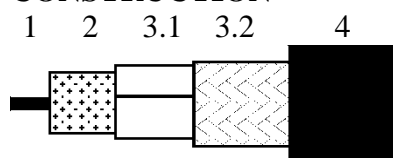
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APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and EN50117-2-4 operating at frequencies between 5 and 3000 MHz.

CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PE 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:	1.55 mm ± 0.02 mm
2. Dielectric:	
Diameter:	7.25 mm ± 0.2 mm
Centricity:	≥ 0.85
Adhesion:	12 – 120 N at 25 mm
3. Outer conductor:	
Diameter screen:	7.9 mm ± 0.25 mm
Foil overlap:	≥ 2 mm
Coverage braid:	46 % ± 5 %
4. Sheath:	
Diameter:	10.1 mm ± 0.3 mm
Tensile strength:	≥ 10 N/mm ²
Elongation at break:	≥ 300 %
5. Cable:	
Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-60°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	100 mm

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Electrical characteristics

Mean characteristic impedance:	$75 \pm 3 \Omega$
Regularity of impedance:	$> 46 \text{ dB}$
DC loop resistance:	$\leq 20 \Omega/\text{km}$
DC resistance inner conductor:	$\leq 9.4 \Omega/\text{km}$
DC resistance outer conductor:	$\leq 12.3 \Omega/\text{km}$
Capacitance:	$55 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:	3 kVdc
Screening efficiency 30-1000 MHz:	$\geq 85 \text{ dB}$
Transfer Impedance:	$< 15 \text{ m}\Omega/\text{m}$
Return loss at 5-30 MHz:	$\geq 26 \text{ dB}^*$
30-470 MHz:	$\geq 26 \text{ dB}^*$
470-1000 MHz:	$\geq 23 \text{ dB}^*$
1000-2000 MHz:	$\geq 18 \text{ dB}^*$
2000-3000 MHz:	$\geq 16 \text{ dB}^*$

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9 dB/100m	1350 MHz:	16.1 dB/100m
50 MHz:	2.8 dB/100m	1600 MHz:	17.8 dB/100m
100 MHz:	3.9 dB/100m	1750 MHz:	18.7 dB/100m
200 MHz:	5.7 dB/100m	2150 MHz:	21.1 dB/100m
400 MHz:	8.2 dB/100m	2400 MHz:	22.5 dB/100m
600 MHz:	10.2 dB/100m	2600 MHz:	23.6 dB/100m
800 MHz:	12.0 dB/100m	2800 MHz:	24.7 dB/100m
1000 MHz:	13.6 dB/100m	3000 MHz:	25.7 dB/100m

Maximum attenuation is 10% higher.

REVISIONS

#	Description	Date	Initials
4	Operating temperature changed from -40C to -60C	12-08-2008	PMB
5	Added Transfer Impedance, change DC resistance outer conductor from 10.6 to 12.3 Ohm/m	13-08-2008	PMB



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.