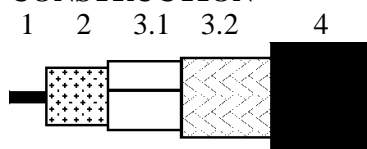
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APPLICATION

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

CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected LDPE
3.1	Foil	Copper-polyester foil
3.2	Braid	Annealed copper
4	Sheath	LDPE 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:	1.63 mm ± 0.02 mm
2. Dielectric:		
	Diameter:	7.28 mm ± 0.2 mm
	Adhesion:	26 – 260 N at 50 mm
3. Outer conductor:		
	Diameter screen:	8.1 mm ± 0.25 mm
	Coverage braid:	50 % ± 5 %
4. Sheath:		
	Diameter:	10.1 mm ± 0.3 mm
	Tensile strength:	≥ 10 N/mm ²
	Elongation at break:	≥ 300 %
5. Cable:		
	Storage/operating temperature:	-40°C to +70°C
	Minimum installation temperature:	-5 °C
	Minimum static bend radius:	50 mm

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Electrical characteristics

Mean characteristic impedance:		$75 \pm 3 \Omega$
Regularity of impedance:		$> 40 \text{ dB}$ or $< 1\%$
DC loop resistance:		$\leq 18.5 \Omega/\text{km}$
DC resistance inner conductor:		$\leq 8.5 \Omega/\text{km}$
DC resistance outer conductor:		$\leq 10.0 \Omega/\text{km}$
Capacitance:		$54 \text{ pF/m} \pm 2 \text{ pF/m}$
Velocity ratio:		0.81 ± 0.02
Insulation resistance:		$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:		2 kVdc
Screening efficiency after flexing		
	30-1000 MHz:	$\geq 75 \text{ dB}$
	1000 – 2000 MHz:	$\geq 65 \text{ dB}$
	2000 – 3000 MHz:	$\geq 55 \text{ dB}$
Return loss at	5-30 MHz:	$\geq 23 \text{ dB}^*$
	30-470 MHz:	$\geq 23 \text{ dB}^*$
	470-1000 MHz:	$\geq 20 \text{ dB}^*$
	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	1000 MHz:	14.0 dB/100m
50 MHz:	2.8 dB/100m	1750 MHz:	19.2 dB/100m
100 MHz:	3.9 dB/100m	2150 MHz:	21.9 dB/100m
200 MHz:	5.7 dB/100m	2400 MHz:	23.2 dB/100m
460 MHz:	9.2 dB/100m	3000 MHz:	26.1 dB/100m
800 MHz:	12.2 dB/100m		
860 MHz:	12.6 dB/100m		

Maximum attenuation is 10% higher.

REVISIONS

#	Description	Date	Initials



Belden CDT believes 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.