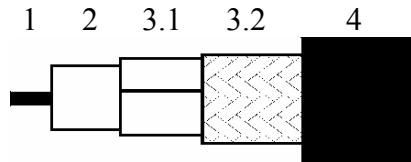
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APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and En 50117-2-4 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	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:	0.96 mm ± 0.02 mm
2. Dielectric:	
Diameter:	4.7 mm ± 0.15 mm
Adhesion:	7.5 – 75 N at 25 mm
3. Outer conductor:	
Diameter screen:	5.35 mm ± 0.15 mm
Coverage braid:	55 % ± 5 %
4. Sheath:	
Diameter:	6.65 mm ± 0.2 mm
Tensile strength:	≥ 12.5 N/mm ²
Elongation at break:	≥ 150 %
5. Cable:	
Storage/operation temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Minimum static bend radius:	35 mm

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Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	>40dB or <1%
DC loop resistance:	≤ 41 Ohm/km
DC resistance inner conductor:	≤ 26 Ohm/km
DC resistance outer conductor:	≤ 15 Ohm/km
Capacitance:	55.0 pF/m ± 2.0 pF/m
Velocity ratio:	0.82 ± 0.02
Insulation resistance:	> 10 ⁴ MOhm.km
Voltage test of dielectric:	2 kVdc
Screening efficiency after flexing	
30-1000 MHz:	≥ 75 dB
1000 – 2000 MHz:	≥ 65 dB
2000 – 3000 MHz:	≥ 55 dB
Return loss at	
5-30 MHz:	≥ 20 dB*
30-470 MHz:	≥ 20 dB*
470-1000 MHz:	≥ 18 dB*
1000-2000 MHz:	≥ 16 dB*
2000-3000 MHz:	≥ 15 dB*

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

Attenuation at	Maximal	Attenuation at	Maximal
5 MHz:	1.6 dB/100m	860 MHz:	19.5 dB/100m
50 MHz:	4.6 dB/100m	1000 MHz:	21.5 dB/100m
100 MHz:	6.5 dB/100m	1750 MHz:	29.0 dB/100m
200 MHz:	9.5 dB/100m	2150 MHz:	32.5 dB/100m
460 MHz:	15.0 dB/100m	2400 MHz:	34.4 dB/100m
800 MHz:	18.8 dB/100m	3000 MHz:	38.4 dB/100m

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.

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