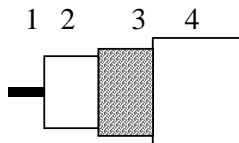
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## APPLICATION

Coaxial communication cable based on BS2316.

## CONSTRUCTION




1	Inner conductor	Solid soft annealed copper
2	Dielectric	Solid PE
3	Braid	Bare copper
4	Sheath	PVC according the European Standard HD 624.

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50289.

### Mechanical characteristics

1. Inner conductor:		
Nominal diameter:		0.9 mm
2. Dielectric:		
Diameter:		2.95 mm ± 0.15 mm
3. Outer conductor:		
Nominal diameter screen:		3.63 mm
Coverage braid:		91 % ± 4 %
4. Sheath:		
Diameter:		5.0 mm ± 0.15 mm
Tensile strength:		≥ 12.5 N/mm <sup>2</sup>
Elongation at break:		≥ 150 %
5. Cable:		
Crush resistance of cable:		< 1% (load of 700N)
Storage/operating temperature:		-40°C to +70°C
Minimum installation temperature:		-5 °C
Minimum static bend radius:		25 mm

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**Electrical characteristics**

Mean characteristic impedance:	$50 \pm 2 \Omega$
Regularity of impedance:	> 40 dB
DC resistance inner conductor:	$\leq 28 \Omega/\text{km}$
Capacitance:	$98 \text{ pF/m} \pm 5 \text{ pF/m}$
Nominal velocity of propagation:	66 %
Insulation resistance:	$> 2 \cdot 10^4 \text{ M}\Omega \cdot \text{km}$
Voltage Rating	
DC	4 kVdc
RMS	2 kVrms

Return loss at	5-30 MHz:	$\geq 20 \text{ dB}^*$
	30-470 MHz:	$\geq 20 \text{ dB}^*$
	470-1000 MHz:	$\geq 18 \text{ dB}^*$

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

Nominal Attenuation:

100 MHz:	13.0 dB/100m
200 MHz:	18.7 dB/100m
300 MHz:	23.2 dB/100m
600 MHz:	33.8 dB/100m
1000 MHz:	44.6 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.