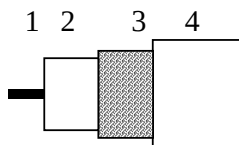


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APPLICATION

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 $\pm$ 0.15 mm
3. Outer conductor:
Nominal diameter screen: 3.63 mm
Coverage braid: 91 % $\pm$ 4 %
4. Sheath:
Diameter: 5.0 mm $\pm$ 0.15 mm
Tensile strength: $\geq 12.5 \text{ N/mm}^2$
Elongation at break: $\geq 150 \%$
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:	$> 40 \text{ dB}$
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.