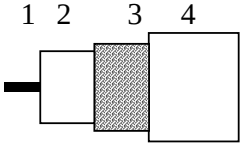
APPLICATION

Coaxial communication cable based on BS2316.

CONSTRUCTION



1	Inner conductor	Stranded tinned 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.	7 x 0.32 mm
Diameter:	0.96 mm ± 0.02 mm
2. Dielectric:	
Diameter:	2.95 mm ± 0.15 mm
3. Outer conductor:	
Diameter screen:	3.63 mm ± 0.2 mm
Coverage braid:	91 % ± 4 %
4. Sheath:	
Diameter:	5.0 mm ± 0.25 mm
Tensile strength:	≥ 12.5 N/mm^2
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 ± 2 Ω
Regularity of impedance:	> 40 dB
DC resistance inner conductor:	≤ 31.8 Ω/km
Capacitance:	98 pF/m ± 5 pF/m
Nominal velocity of propagation:	66 %
Insulation resistance:	> 2.10^4 MΩ.km
Voltage Rating	
DC:	4 kVdc
RMS	2 kVrms

Return loss at	5-30 MHz:	≥ 20 dB*
	30-470 MHz:	≥ 20 dB*
	470-1000 MHz:	≥ 18 dB*

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

Nominal Attenuation:

100 MHz:	15.5 dB/100m
200 MHz:	22.2 dB/100m
600 MHz:	39.8 dB/100m
1000 MHz:	52.7 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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