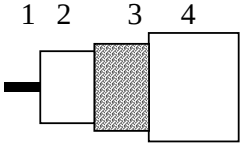
APPLICATION

Coaxial communication cable based on BS2316.

CONSTRUCTION



1	Inner conductor	Stranded bare copper
2	Dielectric	Foamed 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 0.25 mm
Nominal diameter:	0.75 mm
2. Dielectric:	
Diameter:	3.25 mm ± 0.15 mm
3. Outer conductor:	
Nominal diameter screen:	3.85 mm
Coverage braid:	57 % ± 4 %
4. Sheath:	
Diameter:	5.1 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:	26 mm

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Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 40 dB
DC resistance inner conductor:	≤ 54 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Nominal velocity of propagation:	81 %
Insulation resistance:	> 2.10^4 MΩ.km
Voltage Rating	
DC:	2.4 kVdc
RMS	1.2 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:	11 dB/100m
200 MHz:	16 dB/100m
500 MHz:	27 dB/100m
900 MHz:	40 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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