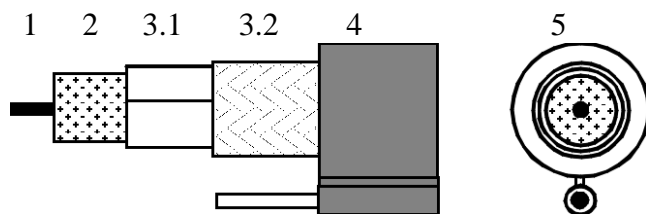
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APPLICATION

Coaxial cables used in cabled distribution networks designed according the European Standard EN 50117-2-1 and EN50117-2-5 operating at frequencies between 5 and 3000 MHz.

CONSTRUCTION



1	Inner conductor	Solid soft annealed copper
2	Dielectric	Gas injected PE
3.1	Foil	Copper
3.2	Braid	Annealed copper
4	Sheath	PE according the European Standard HD 624.
5	Messenger wire	Solid zinc plated steel

REQUIREMENTS AND TEST METHODS

Test methods in accordance with European standard EN 50117-1.

Mechanical characteristics

1. Inner conductor:

Diameter:	1.55 mm ± 0.02 mm
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2. Dielectric:


Diameter:	7.25 mm ± 0.2 mm
Centricity:	≥ 0.85
Adhesion:	12 – 120 N at 25 mm
3. Outer conductor:

Diameter screen:	7.9 mm ± 0.25 mm
Foil overlap:	≥ 2 mm
Coverage braid:	46 % ± 5 %
4. Sheath:

Diameter:	10.1 mm ± 0.3 mm
Diameter catenary wire:	≥ 4 mm
Tensile strength:	≥ 10 N/mm ²
Elongation at break:	≥ 300 %
5. Messenger wire:

Nominal diameter:	1.83 mm
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6. Cable:

Crush resistance of cable:	< 1% (load of 700N)
Storage/operating temperature:	-40°C to +70°C
Minimum installation temperature:	-5 °C
Maximum tensile strength of cable:	1000 N
Minimum static bend radius:	100 mm

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Electrical characteristics

Mean characteristic impedance:	75 ± 3 Ω
Regularity of impedance:	> 46 dB
DC loop resistance:	≤ 20 Ω/km
DC resistance inner conductor:	≤ 9.4 Ω/km
DC resistance outer conductor:	≤ 10.6 Ω/km
Capacitance:	55 pF/m ± 2 pF/m
Velocity ratio:	0.81 ± 0.02
Insulation resistance:	> 10 ⁴ MΩ.km
Voltage test of dielectric:	3 kVdc
Screening efficiency 30-1000 MHz:	≥ 85 dB
Return loss at 5-30 MHz:	≥ 26 dB*
30-470 MHz:	≥ 26 dB*
470-1000 MHz:	≥ 23 dB*
1000-2000 MHz:	≥ 18 dB*
2000-3000 MHz:	≥ 16 dB*

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

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9 dB/100m	1000 MHz:	13.6 dB/100m
50 MHz:	2.8 dB/100m	1350 MHz:	16.1 dB/100m
100 MHz:	3.9 dB/100m	1600 MHz:	17.8 dB/100m
200 MHz:	5.7 dB/100m	1750 MHz:	18.7 dB/100m
400 MHz:	8.2 dB/100m	2150 MHz:	21.1 dB/100m
600 MHz:	10.2 dB/100m	2400 MHz:	22.5 dB/100m
800 MHz:	12.0 dB/100m		

Maximum attenuation is 10% higher.

REVISIONS

#	Description	Date	Initials
2	Improve description on solid messenger wire	2008-06-11	PBo



Belden declares 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.