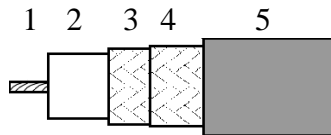
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## APPLICATION

Coaxial cables used for Radio-frequency designed according the International Standard IEC 1196.

## CONSTRUCTION




1	Inner conductor	7x0.75 mm stranded silver plated copper
2	Dielectric	Solid PE
3	Braid layer 1	Silver plated copper
4	Braid layer 2	Silver plated copper
5	Sheath	PVC according the European Standard HD 624.

## REQUIREMENTS AND TEST METHODS

Test methods in accordance with International Standard IEC 1196.

### Mechanical characteristics

1. Inner conductor		
Construction:		7x0.75 mm
Diameter:		2.25 mm ± 0.03 mm
2. Dielectric		
Diameter:		7.25 mm ± 0.2 mm
3. Braid layer 1		
Diameter screen:		8.0 mm ± 0.25 mm
Coverage braid:		68% ± 4 %
4. Braid layer 2		
Diameter screen:		8.7 mm ± 0.25 mm
Coverage braid:		90% ± 4 %
5. Sheath:		
Diameter:		10.8 mm ± 0.2 mm
Tensile strength:		≥ 12.5 N/mm <sup>2</sup>
Elongation at break:		≥ 150 %
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:		110 mm

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**Electrical characteristics**

Mean characteristic impedance:		$50 \pm 2 \Omega$
DC loop resistance:		$\leq 9.1 \Omega/\text{km}$
DC resistance inner conductor:		$\leq 6.0 \Omega/\text{km}$
DC resistance outer conductor:		$\leq 3.1 \Omega/\text{km}$
Capacitance:		$100 \text{ pF/m} \pm 3 \text{ pF/m}$
Velocity ratio:		$0.66 \pm 0.02$
Insulation resistance:		$> 10^4 \text{ M}\Omega.\text{km}$
Voltage test of dielectric:		3 kVdc
Return loss at	100-1000 MHz:	$\geq 23 \text{ dB}$
Power rating at	100 MHz:	760 W
	1000 MHz:	175 W
Attenuation at	Nominal	
	50 MHz:	4.3 dB/100m
	230 MHz:	9.9 dB/100m
	470 MHz:	14.9 dB/100m
	860 MHz:	21.3 dB/100m
	1000 MHz:	23.3 dB/100m

Maximum attenuation is 10% higher.

**REVISIONS**

#	Description	Date	Initials
1	Removed SE demand above 1000MHz	2010-02-22	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.