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SENDING ALL THE RIGHT SIGNALS					

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## **APPLICATION**

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

### CONSTRUCTION

1 2 3.1 3.2 4

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.

# REQUIREMENTS AND TEST METHODS

Test methods in accordance with International Standard IEC 1196.

#### **Mechanical characteristics**

1. Inner conductor.

Diameter:  $2.5 \text{ mm} \pm 0.03 \text{ mm}$ 

2. Dielectric:

Diameter:  $7.0 \text{ mm} \pm 0.2 \text{ mm}$ 

Centricity:  $\geq 0.85$ 

Adhesion: 39 - 390 N at 50 mm

3. Outer conductor:

Diameter screen:  $7.45 \text{ mm} \pm 0.25 \text{ mm}$ 

Foil overlap:  $\geq 2 \text{ mm}$ Coverage braid:  $50 \% \pm 5 \%$ 

4. Sheath:

Diameter: 9.8 mm  $\pm$  0.3 mm Tensile strength:  $\geq$  10 N/mm<sup>2</sup>  $\geq$  300 %

5. Cable:

Crush resistance of cable: < 1% (load of 700N)

Storage/operating temperature:  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ 

Minimum installation temperature: -5 °C Minimum static bend radius: 100 mm Total weight: 107 g/m



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## **Electrical characteristics**

Velocity ratio: $0.81 \pm 0.02$ Insulation resistance: $> 10^4$  MΩ.km

Voltage test of dielectric: 3 kVdc Screening efficiency 30-1000 MHz:  $\geq$  90 dB

Attenuation at	Nominal	Attenuation at	Nominal
5 MHz:	0.9  dB/100m	1000 MHz:	14.6 dB/100m
50 MHz:	2.9 dB/100m	1350 MHz:	17.4 dB/100m
100 MHz:	4.1 dB/100m	1750 MHz:	20.3 dB/100m
200 MHz:	6.0  dB/100m	2150 MHz:	23.0 dB/100m
400 MHz:	8.7  dB/100m	2400 MHz:	24.6 dB/100m
600 MHz:	10.9 dB/100m	5000 MHz:	38.9 dB/100m
800 MHz:	12.9 dB/100m	10000 MHz:	61.7 dB/100m

Maximum attenuation is 10% higher.

### **REVISIONS**

#	Description	Date	Initials



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.