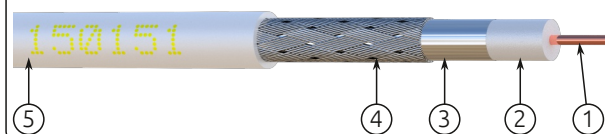
**elbaC Cable**

ZAC sous le Beer - RD 836
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www.elbac.fr / info@elbac.fr

**Construction****Inner conductor** ①

Material	Annealed Copper
Diameter	$\varnothing 0.813 \pm 0.01$ mm

Dielectric ②

Material	Gas injection PE
Color	Natural
Diameter	$\varnothing 3.50 \pm 0.10$ mm

Outer conductor**1st Layer** ③

Material	Alu/Polyester tape/Alu
Coverage	$\geq 115\%$

2nd Layer ④

Material	Tinner Copper
Braiding	$16 \times (4 \times \varnothing 0.10$ mm)
Coverage	52%

Sheath ⑤

Material	PVC White
Diameter	$\varnothing 5.00 \pm 0.20$ mm

Weight

Linear mass	27 kg/km
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Marking of sheath

Printing with XXX: Quantity in meter still available per reel DDDD: Date code	SAT 5 - elbaC 150151 - DDDDD - XXX m
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Color / Process	Yellow pigment ink / Ink jet
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Step	1m
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Stripping force / 50 mm (F)

Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$
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Meet Standards

Coaxial :	EN 50017-5
Environment :	European directive 2011/65/EU
Marking :	CE
Fire reaction :	EN 50575:2014/A1:2016
Fire performance :	IEC 60332-1 NF C 32-070 Classe C2

Electrical characteristics

Impedance	$75 \pm 3 \Omega/\text{km}$
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Capacitance	$< 50 \text{ pF/m}$
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Max DC Resistance at 20°C

Inner conductor	$0.80 \Omega/100\text{m}$
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Outer conductor	$2.8 \Omega/100\text{m}$
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Propagation velocity	84%
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Rated voltage	30 V
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Insulation resistance at 20°C	$> 500 \text{ M}\Omega.\text{km}$
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Longitudinal attenuation

Frequency MHz	Max attenuation dB/100m
50.0	5.9
200.0	11.3
470.0	16.7
800.0	23.0
862.0	24.2
1000.0	26.3
1350.0	30.8
1750.0	35.6
2150.0	40.0

Return loss

Frequency MHz	Return loss dB
[5 - 30]	> 23
[30 - 470]	> 23
[470 - 862]	> 20
[862 - 2000]	> 18

Screening attenuation

Class	B
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Attenuation 30-1000 MHz	$\geq 75 \text{ dB}$
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Thermal characteristics

CPR fire reaction class	E_{ca}
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Rated temperature	80°C
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Packaging

- P1 :	100m / Plastic Reel
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Notes

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