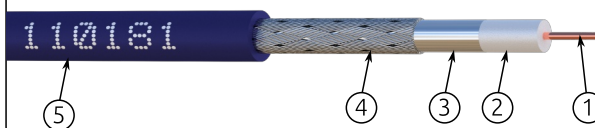
**elbaC Cable**

ZAC sous le Beer - RD 836
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**Construction****Inner conductor** ①

Material	Annealed Copper
Diameter	$\varnothing 0.61 \pm 0.005$ mm

Dielectric ②

Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 2.75 \pm 0.10$ mm

Outer conductor**1st Layer** ③

Material	Thick Alu 40 μ m/Polyester/Alu tape
Coverage	$\geq 125\%$

2nd Layer ④

Material	Tinned Copper
Braiding	16 \times (6 \times $\varnothing 0.12$ mm)
Coverage	90%

Sheath ⑤

Material	PVC - Flam retardant C2
Color	Blue - RAL 5022
Diameter	$\varnothing 4.5 \pm 0.10$ mm

Weight

Linear mass	28 kg/km
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Marking of sheath

Printing	VN4 R - HD SDI - 75 OHMS - elbaC with XXX : Quantity in meter still available per reel DDDDD : Date code
Color / Process	White / Ink jet
Step	1m

Stripping force / 50 mm (F)

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

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

Electrical characteristics

Impedance	$75 \pm 2 \Omega$
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Capacitance	$< 58 \text{ pF/m}$
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Max DC Resistance at 20°C

Inner conductor	65 Ω /km
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Outer conductor	17.2 Ω /km
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Propagation velocity	81%
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Rated voltage	30 V
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Insulation resistance at 20°C	$> 500 \text{ M}\Omega$ /km
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Longitudinal attenuation

Frequency MHz	Max attenuation dB/100m
5	2.4
30	5.4
100	10.5
300	17.9
500	23.1
1000	32.8
2250	49.8
3000	59.3

Return loss

Frequency MHz	Return loss dB
[30 - 1000]	> 23

Screening attenuation

Attenuation 30 - 2000 MHz	$> 100 \text{ dB}$
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Attenuation 2000 - 3000 MHz	$> 100 \text{ dB}$
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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

- W5 : 500m / Wooden Drum

Notes