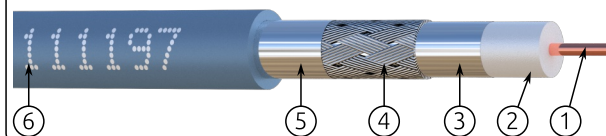
**elbaC Cable**

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

Material	Annealed Copper
Diameter	$\varnothing 1.02 \pm 0.01$ mm

Dielectric ②

Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 4.65 +0.05/-0.10$ mm

Outer conductor**1st Layer** ③

Material	Thick Alu/Polyester/Alu tape
Coverage	$\geq 120\%$

2nd Layer ④

Material	Tinned copper
Braiding	16 $\times$ (9 $\times$ $\varnothing 0.10$ mm)
Coverage	77%

3rd Layer ⑤

Material	Thick Alu/Polyester
Coverage	$\geq 120\%$

Sheath ⑥

Material	LSZH
Color	Blue RAL5014
Diameter	$\varnothing 7.2 \pm 0.20$ mm
Thickness	Average ≥ 0.7 mm

Mass 55 kg/km**Marking of sheath**

Printing with XXX : Quantity in meter still available per reel DDDDD : Date code	iDEFINITION 102 - 75 OHMS - LSZH - Euroclass : B2ca,s1b,d1,a1 - elbaC 111197 - DDDDD - XXX m
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Color / Process	White / Ink jet
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Step	1 m
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Meet Standards

Fire (CPR) :	EN 50575:2014+A1:2016
Environment :	European directive 2011/65/EU
Marking :	CE

Electrical characteristics

Impedance	$75 \pm 2 \Omega$
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Capacitance	< 58 pF/m
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Max DC resistances (20°C)

Inner conductor	22.2 Ω /km
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Outer conductor	14 Ω /km
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Propagation velocity	82%
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Rated voltage	30V
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Insulation resistance (20°C)	> 500 M Ω .km
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Longitudinal attenuation

Frequency MHz	Attenuation dB/100m
10	2.3
50	4.6
100	6.5
200	9.3
400	13.2
800	18.7
1000	21.5
1350	27.9
2150	32.4
3000	40.3

Return loss

Frequency MHz	Return loss dB/100m
[5 - 1000]	> 26
[1000 - 2000]	> 24
[2000 - 3000]	> 22

Screening attenuation

30 - 1000 MHz	≥ 105 dB
1000 - 2000MHz	≥ 95 dB
2000 - 3000MHz	≥ 85 dB

Mechanical characteristics

Bending radius	≥ 58 mm
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Thermal characteristics

CPR fire reaction Euroclass	B2 _{ca} ,s1b,d1,a1
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Operating temperature	-10°C to +70°C
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Installation temperature	0°C to +40°C
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Packaging

- W5 :	500m / Wooden Drum
- WA :	1000m / Wooden Drum

Notes