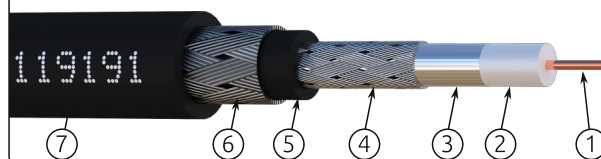
**elbaC Cable**

ZAC sous le Beer - RD 836
F-27730 BUEIL (Eure - France)
Tél : +33 (0)2 32 62 00 92
Fax : +33 (0)2 76 01 31 80
www.elbac.fr / info@elbac.fr

**Construction**

Inner conductor ①	
Material	Annealed copper
Diameter	$\varnothing 0.80 \pm 0.005$ mm
Dielectric ②	
Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 3.65 \pm 0.10$ mm
Outer conductor	
1 st Layer ③	
Material	Thick tape Alu 20 μ m/Polyester 15 μ m/Alu 20 μ m
Coverage	$\geq 125\%$
Diameter	$\varnothing 3.78 \pm 0.10$ mm
2 nd Layer ④	
Material	Tinned copper clad aluminum
Braiding	16 \times (6 \times $\varnothing 0.12$ mm)
Coverage	78%
Inner sheath ⑤	
Material	Special outdoor LSZH
Color	Black - RAL 9005
Diameter	$\varnothing 6.10 \pm 0.10$ mm
Armouring ⑥	
Material	Galvanized steel
Braid	24 \times (6 \times $\varnothing 0.20$ mm)
Coverage	$> 95\%$
Outer sheath ⑦	
Material	Special outdoor LSZH
Color	Black - RAL 9005
Diameter	$\varnothing 9.55 \pm 0.30$ mm
Weight	
Linear mass	155 kg/km
Marking of sheath	
Printing	« VN6 R - 75 OHMS - SWB - with XXX : Quantity in meter still available per reel DDDDD : Date code ODLSZH - CE - elbaC 119191 - DDDDD - XXXm »
Color / Process	White / Ink jet
Step	1m
Stripping force / 50 mm (F)	
Dielectric	15 N \leq F \leq 35 N

Meet Standards

European directive 2011/65/EU
Flame retardant IEC 60332-1 (C2)

Electrical characteristics

Impedance	75 \pm 2 Ω /km
Capacitance	< 58 pF/m
Max DC Resistance at 20°C	
Inner conductor	37 Ω /km
Outer conductor	17.2 Ω /km
Propagation velocity	81%
Rated voltage	30 V
Insulation resistance at 20°C	> 500 M Ω /km
Insulation voltage	> 1000 V
Spark test in production	3000 V
Longitudinal attenuation	

Frequency MHz	Max attenuation dB/100m
5	1.7
50	5.6
100	7.9
300	14.0
400	16.4
1000	26.9
2150	41.5
3000	49.2

Return loss

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

Screening attenuation

Attenuation 30 - 2000 MHz	> 105 dB
Attenuation 2000 - 3000 MHz	> 95 dB

Thermal characteristics

Rated temperature	80°C
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Packaging

- W3 : 300m / Wooden Drum

Notes

Outdoor (rain/UV) resistant



Rodent resistant