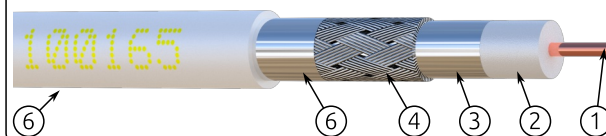
**elbaC Cable**

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**Construction**

Inner conductor ①	
Material	Annealed Copper
Diameter	$\varnothing 1,13 \pm 0,02$ mm
Dielectric ②	
Material	Cellular PE Physical
Color	Natural
Diameter	$\varnothing 4,85 \pm 0,20$ mm
Outer conductor	
1 <sup>st</sup> Layer ③	
Material	Alu/Polyester Tape Bonded
Coverage	$\geq 115\%$
2 <sup>nd</sup> Layer ④	
Material	Aluminum Alloy
Braiding	$16 \times (7 \times \varnothing 0,12$ mm )
Coverage	72%
3 <sup>rd</sup> Layer ⑥	
Material	Alu/Polyester Tape
Implementation	Not bonded
Coverage	$\geq 115\%$
Sheath ⑤	
Material	PVC White
Diameter	$\varnothing 6,80 \pm 0,20$ mm
Mass	43 kg/km
Marking of sheath	
Printing with XXX : Quantity in meter still available per reel DDDDD : Date code	17VAtC 1.13/4.85 Class A+ 3Ghz - elbaC 100165 - <b>CE</b> - DDDDD - XXX m
Color / Process	Yellow / Ink jet
Step	1 m
Stripping force / 50 mm	
Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$

**Electrical characteristics**

Impedance	$75 \pm 3 \Omega$
Capacitance	$< 60$ pF/m
Max DC resistances (20°C)	
Inner conductor	1,8 $\Omega$ /km
Outer conductor	3,9 $\Omega$ /km
Propagation velocity	84%
Rated voltage	30V
Insulation resistance (20°C)	$> 500 \text{ M}\Omega \cdot \text{km}$
Longitudinal attenuation	

Frequency MHz	Max attenuation dB/100m
5	1.20
50	4.10
100	5.60
200	8.20
400	11.50
800	16.70
862	17.50
950	18.40
1350	20.00
1750	25.50
2150	28.70
3000	35.00

**Return loss**

Frequency MHz	Return loss dB/100m
[ 5 - 30 ]	$> 25$
[ 30 - 470 ]	$> 24$
[ 470 - 862 ]	$> 22$
[ 862 - 1000 ]	$> 22$

**Screening attenuation**

Class	A+
Attenuation 30-1000 MHz	$\geq 100$ dB
Transfer impedance 5-30 Mhz	$< 5 \text{ m}\Omega/\text{m}$

**Meet Standards**

EN 500117-5  
European directive 2011/65/EU

**Thermal characteristics**

Rated temperature	80°C
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**Packaging**

- C1 : 100m / Carton Reel
- W2 : 250m / Wooden Drum
- W5 : 500m / Wooden Drum