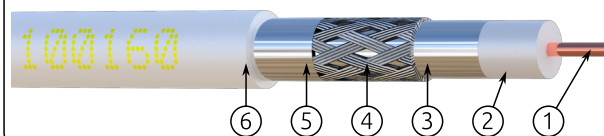
**elbaC Cable**

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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 st Layer ③	
Material	Alu/Polyester/Alu Thick Tape
Coverage	$\geq 105\%$
2 nd Layer ④	
Material	Aluminum Alloy
Braiding	$16 \times (4 \times \varnothing 0,12 \text{ mm})$
Coverage	48% (angle 24°)
3 rd Layer ⑤	
Material	Alu/Polyester Tape
Coverage	$\geq 105\%$
Sheath ⑥	
Material	PVC White
Diameter	$\varnothing 6,80 \pm 0,20$ mm
Mass	48 kg/km
Marking of sheath	
Printing with XXX : Quantity in meter still available per reel DDDDD : Date code	EN50117-5 17VAtC 1.13/4.85 Class A 3Ghz - CE - elbaC 100160 - DDDDD - XXX m
Color / Process	Yellow / Ink jet
Step	1 m
Stripping force / 50 mm	
Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$

Meet Standards**CE marking**

EN 50117-5

European directive 2011/65/EU

EN 50575:2014 / A1:2016

Electrical characteristics

Impedance	$75 \pm 3 \Omega$
Capacitance	$< 60 \text{ pF/m}$
Max DC resistances (20°C)	
Inner conductor	18 Ω/km
Outer conductor	45 Ω/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	1.5
50	4.3
100	5.9
200	8.4
400	12.0
800	17.5
862	18.3
950	19.2
1350	23.3
1750	27.0
2150	30.6
3000	36.8

Return loss

Frequency MHz	Return loss dB/100m
[5 - 30]	> 23
[30 - 470]	> 23
[470 - 862]	> 20
[862 - 1000]	> 18

Screening attenuation

Class	A
Attenuation 30-1000 MHz	$\geq 85 \text{ dB}$

Thermal characteristics

CPR Fire reaction class	E _{ca}
Rated temperature	80°C

Packaging

- P1 : 100m / elbaC black plastic reel with carton overpacking per 5 reels
- R2 : 250m / Easy Reel Box
- W5 : 500m / Wooden Drum