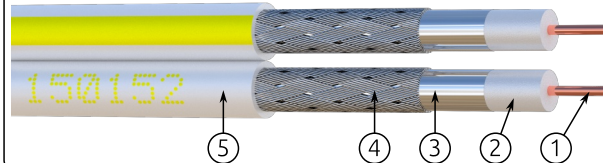
**elbaC Cable**

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**Construction**

<b>Inner conductor</b> ①	
Material	Annealed Copper
Diameter	$\varnothing 0.813 \pm 0.01$ mm
<b>Dielectric</b> ②	
Material	Gas injection PE
Color	Natural
Diameter	$\varnothing 3.50 \pm 0.10$ mm
<b>Outer conductor</b>	
<b>1<sup>st</sup> Layer</b> ③	
Material	Alu/Polyester Tape/Alu
Coverage	$\geq 115\%$
<b>2<sup>nd</sup> Layer</b> ④	
Material	Tinned Copper
Braiding	$16 \times (4 \times \varnothing 0.10$ mm)
Coverage	52%
<b>Sheath</b> ⑤	
Material	PVC White / White yellow line
Diameter	$2 \times \varnothing 5.00 \pm 0.20$ mm
Mass	54 kg/km
<b>Marking of sheath</b>	
Printing <small>with XXX : Quantity in meter still available per reel DDDDD : Date code</small>	TWIN SAT 5 - <b>CE</b> - elbaC 150152 - DDDDD - XXX m
Color / Process	Yellow / Ink jet
Step	1 m
<b>Stripping force / 50 mm</b>	
Dielectric	$15 \text{ N} \leq F \leq 35 \text{ N}$

**Meet Standards**

Coaxial :	EN 50117-5
Environment :	European directive 2011/65/EU
Marking :	<b>CE</b>
Fire reaction :	EN 50575:2014/A1:2016 F <sub>ca</sub>
Fire Performance :	IEC 60332-1 NF C 32-070 Classe C2

**Notes****Electrical characteristics**

Impedance	$75 \pm 3 \Omega$
Capacitance	$< 67$ pF/m
<b>Max DC resistances (20°C)</b>	
Inner conductor	$3.6 \Omega/100\text{m}$
Outer conductor	$3.7 \Omega/100\text{m}$
Propagation velocity	82%
Rated voltage	30V
Insulation resistance (20°C)	$> 500\text{M}\Omega/\text{km}$
<b>Longitudinal attenuation</b>	

Frequency MHz	Max attenuation dB/100m
50	5.9
200	11.3
470	16.7
800	23.0
862	24.2
1000	26.3
1350	30.8
1750	35.6
2150	40.0

**Return loss**

Frequency MHz	Return loss dB/100m
[ 5 - 30 ]	$> 23$
[ 30 - 470 ]	$> 23$
[ 470 - 862 ]	$> 20$
[ 862 - 2000 ]	$> 18$

**Screening attenuation**

Class	B
Attenuation 1000-3000 MHz	$\geq 75$ dB

**Thermal characteristics**

CPR fire reaction class	F <sub>ca</sub>
Rated temperature	80°C

**Packaging**

- P1 : 100m / elbaC black plastic reel with carton overpacking per 5 reels