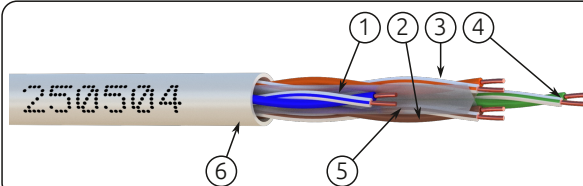
**elbaC Cable**

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

Material	Annealed copper
Diameter	$\varnothing 0.44 \pm 0.01$ mm

Insulation

Material	HDPE
Diameter	$\varnothing 0.78 \pm 0.08$

Assembly

4 twisted pairs

	Blue / White blue	①
	Brown / White brown	②
	Orange / White orange	③
	Green / White green	④

Filler	Cross member	⑤
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Sheath

Material	LSZH Ivory RAL 9002	⑥
Diameter	$\varnothing 4.6 \pm 0.2$ mm	

Marking of sheath

Printing	UTP CAT6 4PR - 70m MAX - elbaC with XXX : Quantity in meter still available per reel DDDDD : Date code
Color / Process	Black ink / Ink jet
Step	1 m

Meet Standards

European directive	2011/65/EU
Electrical :	EIA/TIA 568A (70m max) ISO/IEC 11801 (70m max)
Fire performance :	IEC 60332-1
Smoke density :	IEC 61034
Halogen free :	IEC 60754

Electrical characteristics

Impedance	1 - 100MHz	$100 \pm 15 \Omega$
	100 - 250 MHz	$100 \pm 20 \Omega$

Max. conductor DC resistance	$< 132.4 \Omega/\text{km}$
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Propagation velocity	70%
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Performances

Frequency MHz	Max attenuation dB/70m	NEXT dB	RL dB
4.0	3.8	66.3	23.0
10.0	6.0	60.3	25.0
20.0	8.5	55.8	25.0
62.5	15.5	48.4	21.5
100.0	19.9	45.3	20.1
250.0	33.0	39.3	17.3

Frequency MHz	ACR-F dB/70m	PS NEXT dB	PS ACR-F dB/70m
4.0	56.0	63.3	53.0
10.0	48.0	57.3	45.0
20.0	42.0	52.8	39.0
62.5	32.1	45.4	29.1
100.0	28.0	42.3	25.0
250.0	20.0	36.3	17.0

Thermal characteristics

CPR fire reaction class	E _{ca}
Rated temperature	60°C

Packaging

-C1 :	100m / Carton reel
-R3 :	305m / Wooden easy reel box
-W5 :	500m / Wooden drum

Notes

Cable CAT6 up to 70m, CAT5E over 70m