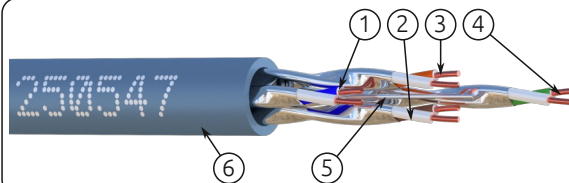
**elbaC Cable**

ZAC sous le Beer - RD 836
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**Construction****Inner conductor** ①-④

Material Annealed copper

Diameter $\varnothing 0.55 \pm 0.01$ mm

Insulation ①-④

Material Skin/Foam/Skin HDPE

Diameter $\varnothing 1.35 \pm 0.10$ mm

Screening ①-④

Material Alu/PET per pair (Alu side out)

Assembly

4 shielded twister pairs

① Blue / white

② Brown / white

③ Orange / white

④ Green / white

Drain wire ⑤

Material Tinned copper $\varnothing 0.4 \pm 0.01$ mm

Sheath ⑥

Material LSZH Blue RAL 5014

Thickness ≥ 0.60 mm

Diameter $\varnothing 7.50 \pm 0.40$ mm

Weight

Linear mass 54 kg/km

Marking of sheath

Printing U/FTP CAT6A 650MHz B2ca-s1a,d1,a1 -
with
XXX : Quantity in meter still
available per reel
DDDDD : Date code
4 PAIRS AWG23 - ISO 11801 - TIA/EIA
568B - elbaC 250547 - DDDDD - XXX m

Color / Process White pigment ink / Ink jet 1 m

Meet Standards

Electrical : EIA/TIA 568A - ISO/IEC 11801

Fire performance : IEC 60332-1

NF C 32-070 Classe C2

Fire reaction : EN 50575:2014/A1:2016

Smoke density : IEC 61034

Halogen free : IEC 60754

Environment : European directive 2011/65/EU

Marking : **CE**

Packaging

- W1 : 100m / Wooden drum

- W5 : 500m / Wooden drum

Electrical characteristics

Impedance	1 - 100MHz	$100 \pm 15 \Omega$
	100- 250 MHz	$100 \pm 20 \Omega$
	250 -500 MHz	$100 \pm 25 \Omega$

Propagation velocity 75%

Mutual pair capacitance ≤ 42 pF/m

Capacitance unbalance pair/ground ≤ 1500 pF/km

Conductor DC resistance $< 86 \Omega/\text{km}$

Pair resistance unbalance DC $< 1.5\%$

Dielectric strength 2.5 kV DC (2s)

Insulation resistance (500V) > 5000 M Ω .km

Voltage rating 58 V

Performances

Frequency MHz	Max attenuation dB/100m	NEXT dB	RL dB
1.0	2.1	75.3	20.0
4.0	3.8	66.3	23.0
10.0	5.9	60.3	25.0
16.0	7.5	57.2	25.0
31.25	10.5	52.9	23.6
62.5	15.0	48.4	21.5
100.0	19.1	45.3	20.1
250.0	31.8	39.3	17.3
500.0	45.3	34.8	17.3
650.0	52.3	31.1	17.3

Frequency MHz	PS NEXT dB	ELFEXT dB	PS ELFEXT dB
1.0	72.3	68.0	65.0
4.0	63.3	56.0	53.0
10.0	57.3	48.0	45.0
16.0	54.2	43.9	40.9
31.25	49.9	38.1	35.1
62.5	45.4	32.1	29.1
100.0	42.3	28.0	25.0
250.0	36.3	20.0	27.0
500.0	31.8	14.0	11.0
650.0	30.1	11.7	8.7

Thermal characteristics

Storage / Transport / Installation 0 / 50°C

CPR fire reaction class B2_{ca}-s1a,d1,a1

Operation -20 / 60°C

Mechanical characteristics

Maximum pulling tension 100 N

Bending radius - installed 50 mm

Bending radius - during installation 60 mm

Note

Câble utilisé pour réseau de télécommunication informatique