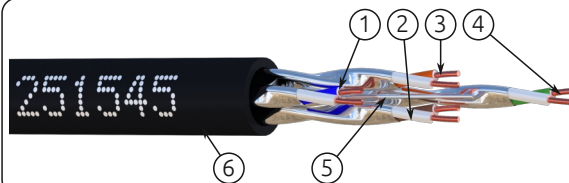
**elbaC Cable**

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

Material Annealed copper

Diameter $\varnothing 0.56 \pm 0.01$ mm**Insulation** ①-④

Material Skin/Foam/Skin HDPE

Diameter $\varnothing 1.33 \pm 0.10$ 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 ⑤Material Tinned copper $\varnothing 0.4 \pm 0.01$ mm**Sheath** ⑥

Material ODLSZH Black RAL 9005

Thickness ≥ 0.5 mmDiameter $\varnothing 7.4 \pm 0.2$ mm**Weight**

Linear mass 49.1 kg/km

Marking of sheath

Printing U/FTP CAT6A 650MHz INTERIEUR/
with XXX : Quantity in meter still
available per reel
DDDDD : Date code
EXTERIEUR - 4 PAIRS AWG23 - ISO
11801 - TIA/EIA 568B - elbaC
251545 - DDDDD - XXX m

Color / Process White pigment ink / Ink jet

Step 1 m

Meet Standards

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

Fire performance : IEC 60332-1

Fire reaction : EN 50575:2014/A1:2016

Smoke density : IEC 61034

Halogen free : IEC 60754

Environment : European directive 2011/65/EU

Marking : **CE****Thermal characteristics**CPR fire reaction class E_{ca}

Storage / Transport / Installation 0 / 50°C

Operation -20 / 60°C

Electrical characteristics

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

Propagation velocity 76%

Mutual pair capacitance ≤ 42 pF/mCapacitance unbalance pair/ground ≤ 1500 pF/kmConductor DC resistance < 79.8 Ω /kmPair resistance unbalance DC $< 1.5\%$

Dielectric strength 2.5 kV DC (2s)

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

Voltage rating 30 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

Mechanical characteristics

Maximum pulling tension 100 N

Bending radius - installed 50 mm

Bending radius - during installation 60 mm

Packaging

- W5 : 500m / Wooden drum