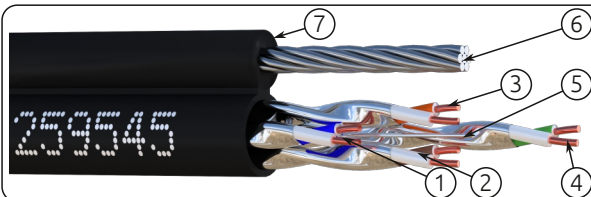
**elbaC Cable**

ZAC sous le Beer - RD 836
F-27730 BUEIL (Eure - France)
Tél : +33 (0)2 32 62 00 92
Fax : +33 (0)2 76 01 31 80
www.elbac.fr / info@elbac.fr

**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 ⑤

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

Messenger ⑥

Material Galvanized steel

Strand $7 \times \varnothing 0.85$ mm

Breaking force > 4500 N

Sheath ⑦

Material PE Black

Thickness ≥ 0.5 mm

Diameter $\varnothing 7.4 \pm 0.2$ mm + $\varnothing 5.0 \pm 0.2$ mm

Weight

Linear mass 88 kg/km

Marking of sheath

Printing U/FTP CAT6A 500MHz EXTERIEUR
with
XXX : Quantity in meter still
available per reel
DDDDD : Date code
AUTOPORTE - 4 PAIRS AWG23 -
ISO 11801 - TIA/EIA 568B - elbaC
259545 - DDDDD - XXX m

Color / Process White pigment ink / Ink jet

Step 1 m

Meet Standards

Electrical : EIA/TIA 568A

ISO/IEC 11801

Smoke density : IEC 61034

Halogen free : IEC 60754

Fire reaction : EN 50575:2014/A1:2016

Environment : European directive 2011/65/EU

Marking : **CE**

Electrical characteristics

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

Max. conductor DC resistance $< 79.8 \Omega/\text{km}$

Propagation velocity 76%

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

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

Thermal characteristics

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

Mechanical characteristics

Bending radius - installed	50 mm
Bending radius - during installation	60 mm

Packaging

- W1 : 100m / Wooden drum
- W5 : 500m / Wooden drum

Notes