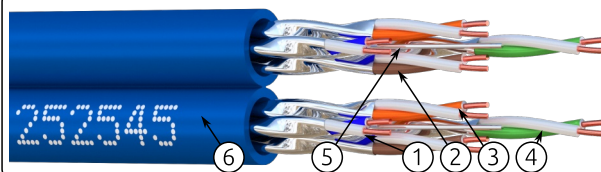
**elbaC Cable**

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

Material	Annealed copper
Diameter	Ø 0.56 ± 0.01 mm

Insulation ①-④

Material	Skin/Foam/Skin HDPE
Diameter	Ø 1.33 ± 0.10 mm

Screening ①-④

Material	Alu/PET per pair (Alu side out)
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Assembly

4 shielded twister pairs

①		Blue / white
②		Brown / white
③		Orange / white
④		Green / white

Drain wire ⑤

Material	Tinned copper Ø 0.4 ± 0.01 mm
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Sheath ⑥

Material	LSZH Blue RAL 5005
Thickness	≥ 0.5 mm
Diameter	Ø 7.2 ± 0.2 mm

Weight

Linear mass	46.1 kg/km
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Marking of sheath

Printing with XXX : Quantity in meter still available per reel DDDDD : Date code	2 × U/FTP CAT6A 650MHz - 4 PAIRS AWG23 - ISO 11801 - TIA/EIA 568B - elbaC 252545 - DDDDD - XXX m
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Color / Process	White pigment ink / Ink jet
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Step	1 m
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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
Marking :	CE
Environment :	European directive 2011/65/EU

Electrical characteristics

Impedance	1 - 100MHz	100 ± 15 Ω
	100- 250 MHz	100 ± 20 Ω
	250 - 650 MHz	100 ± 25 Ω

Propagation velocity	76%
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Mutual pair capacitance	≤ 42 pF/m
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Capacitance unbalance pair/ground	≤ 1500 pF/km
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Conductor DC resistance	< 79.8 Ω/km
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Pair resistance unbalance DC	< 1.5%
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Dielectric strength	2.5 kV DC (2s)
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Insulation resistance (500V)	> 5000 MΩ.km
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Voltage rating	30 V
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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

CPR fire reaction class	D _{ca} -s2,d1,a1
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Storage / Transport / Installation	0 / 50°C
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Operation	-20 / 60°C
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Mechanical characteristics

Maximum pulling tension	100 N
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Bending radius - installed	50 mm
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Bending radius - during installation	60 mm
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Packaging

- W5 : 500m / Wooden drum