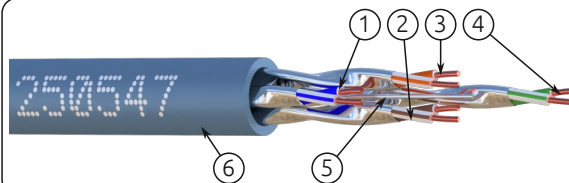
**elbaC Cable**

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**Construction**

Inner conductor		①-④
Material	Annealed copper	
Diameter	Ø 0.55 ± 0.01 mm	
Insulation		①-④
Material	Skin/Foam/Skin HDPE	
Diameter	Ø 1.35 ± 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 Ø 0.4 ± 0.01 mm	
Sheath		⑥
Material	LSZH Blue RAL 5014	
Thickness	≥ 0.60 mm	
Diameter	Ø 7.50 ± 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	
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 ± 15 Ω
	100- 250 MHz	100 ± 20 Ω
	250 -500 MHz	100 ± 25 Ω
Propagation velocity	75%	
Mutual pair capacitance	≤ 42 pF/m	
Capacitance unbalance pair/ground	≤ 1500 pF/km	
Conductor DC resistance	< 86 Ω/km	
Pair resistance unbalance DC	< 1.5%	
Dielectric strength	2.5 kV DC (2s)	
Insulation resistance (500V)	> 5000 MΩ.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