

**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	U/FTP CAT6A 650MHz - 4 PAIRS
with XXX : Quantity in meter still available per reel	AWG23 - ISO 11801 - TIA/EIA 568B
DDDDD : Date code	- elbaC 250545 - DDDDD - XXX m

Color / Process	White pigment ink / Ink jet 1 m
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**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



Certificat No 2015-550A

**Notes**

Câble utilisé pour réseau de télécommunication informatique

**Electrical characteristics**

Impedance	1 - 100MHz	100 ± 15 Ω
	100- 250 MHz	100 ± 20 Ω
	250 -500 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	58 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**

Storage / Transport / Installation	0 / 50°C
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CPR fire reaction class	D <sub>ca</sub> -s2,d1,a1
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Operation	-20 / 60°
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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