

**Construction****Inner conductor** ① - ④

Material	Annealed copper
Diameter	Ø 0.51 ± 0.008 mm

**Insulation** ① - ④

Material	PEHD
Diameter	Ø 0.93 mm

**Assembly**

4 unshielded twisted pairs

①		Blue / white blue
②		Brown / white brown
③		Orange / white orange
④		Green / white green

**Filler** ⑤

Type	Cross member
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**Sheath** ⑥

Material	LSZH Blue RAL 5005
Thickness	≥ 0.20 mm
Diameter	Ø 6.00 ± 0.15 mm

**Weight**

Linear mass	50 kg/km
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**Marking of sheath**

Printing	ISO 11801 - U/UTP CAT 6 LSZH with XXX: Quantity in meter still available per reel DDDDD: Date code
	EIA/TIA568A - <b>CE</b> - elbaC 250505 - DDDDD - XXX m

Color / Process	Black / Inkjet
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Step	1 m
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**Meet Standards**

Electrical :	EIA/TIA568A ISO/IEC 11801
Environment :	<b>CE</b>
Marking :	European directive 2011/65/E U
Fire reaction :	EN 50575:2014/ A1:2016

**Electrical characteristics**

Impedance	100 ± 15 Ω
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Max. conductor DC resistance	70.4 Ω/km
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Propagation velocity	65%
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**Performances**

Frequenc y MHz	Max attenuation dB/100m	NEXT dB	RL dB
1.00	2.0	74.3	20.0
4.00	3.8	65.3	23.0
8.00	5.3	60.8	24.5
10.00	6.0	59.3	25.0
16.00	7.8	56.2	25.0
20.00	8.5	54.8	25.0
25.00	9.5	53.3	24.3
31.25	10.7	51.9	23.3
62.50	15.4	47.4	21.5
100.00	19.8	44.3	20.1
150.00	24.7	41.7	18.9
200.00	29.0	39.8	18.0
250.00	32.8	38.3	17.3

Frequenc y MHz	ACR dB	ELFEXT dB	PS ELFEXT dB
1.00	72.0	73.2	67.8
4.00	61.0	63.3	55.8
8.00	55.0	58.8	49.7
10.00	53.0	57.3	47.8
16.00	49.0	54.2	43.7
20.00	46.0	52.8	41.8
25.00	44.0	51.3	39.8
31.25	41.0	49.9	37.9
62.50	32.0	45.4	31.9
100.00	25.0	42.3	27.8
150.00	16.9	39.7	24.3
200.00	10.8	37.8	51.8
250.00	5.5	36.3	19.8

**Thermal characteristics**

CPR fire reaction class	E <sub>ca</sub>
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Rated temperature	60°C
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**Packaging**

- R3	: 305m / Easy Reel Box
- W5	: 500m / Wooden Drum

**Notes**

Suitable for POE IP CCTV