

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

Material	Annealed copper
Diameter	Ø 0.52 ± 0.008 mm

Insulation ① - ④

Material	HDPE
Diameter	Ø 1.03 mm ± 0.1 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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Mylar spiral ⑥

Coverage	≥ 115%
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Drain wire ⑦

Material	Tinned copper Ø 0.4 ± 0.01 mm
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Screen ⑧

Material	Aluminium / PET (40µ/12µ)
Coverage	≥ 115%

Sheath ⑨

Material	LSZH Blue RAL 5005
Thickness	Average ≥ 0.70 mm
Diameter	Ø 7.20 ± 0.20 mm

Weight

Linear mass	46 kg/km
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Marking of sheath

Printing	ISO 11801 - F/UTP CAT6 350 MHz with XXX: Quantity in meter still available per reel DDDDD: Date code
Color / Process	White pigment ink / Inkjet
Step	1 m
	4 PR TIA/EIA 568A - elbaC 250535 - DDDDD - XXX m

Meet Standards

Electrical :	EIA/TIA568A - ISO/IEC 11801
Fire performance :	IEC 60332-1 NFC 32-070 Classe C2
Fire reaction :	EN 50575:2014/ A1:2016 D _{ca}
Smoke density :	IEC 61034
Halogen free :	IEC 60754
Environment :	European directive 2011/65/E U
Marking :	CE

Electrical characteristics

Impedance	1 - 100MHz	100 ± 15 Ω
	100 - 250 MHz	100 ± 20 Ω
	250 - 350 MHz	100 ± 25 Ω

Max. conductor DC resistance	< 91.2 Ω/km
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Propagation velocity	70%
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Performances

Frequenc y MHz	Max attenuation dB/100m	NEXT dB	RL dB
4.00	3.8	66.3	23.0
10.00	6.0	60.3	25.0
16.00	7.6	57.2	25.0
20.00	8.5	55.8	25.0
31.25	10.7	52.9	23.6
62.50	15.5	48.4	21.5
100.00	19.9	45.3	20.1
200.00	29.1	40.8	18.0
250.00	33.0	39.3	17.3
350.00	40.0	37.1	17.3

Frequenc y MHz	PS NEXT dB	ELFEXT dB	PS ELFEXT dB
4.00	63.3	56.0	53.0
10.00	57.3	48.0	45.0
16.00	54.2	43.9	40.9
20.00	52.8	42.0	39.0
31.25	49.9	38.1	35.1
62.50	45.4	32.1	29.1
100.00	42.3	28.0	25.0
200.00	37.8	22.0	19.0
250.00	36.3	20.0	17.0
350.00	34.1	17.1	14.1

Thermal characteristics

CPR fire reaction class	D _{ca} -s2,d1,a1
Rated temperature	80°C

Mechanical characteristics

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

Packaging

- W1	: 100m / Wooden Drum
- R3	: 305m / Easy Reel Box
- W5	: 500m / Wooden Drum
- WA	: 1000m / Wooden Drum

Notes