

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)
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	ODLSZH Black RAL 9005
Thickness	≥ 0.5 mm
Diameter	Ø 7.4 ± 0.2 mm
Weight	
Linear mass	49.1 kg/km
Marking of sheath	
Printing	U/FTP CAT6A 650MHz INTERIEUR/ with XXX : Quantity in meter still available per reel DDDDD : Date code EXTERIEUR - 4 PAIRS AWG23 - ISO 11801 - TIA/EIA 568B - elbaC 251545 - DDDDD - XXX m
Color / Process	White pigment ink / Ink jet
Step	1 m

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
Environment :	European directive 2011/65/EU
Marking :	CE

Thermal characteristics	
CPR fire reaction class	E _{ca}
Storage / Transport / Installation	0 / 50°C
Operation	-20 / 60°C

Electrical characteristics			
Impedance	1 - 100MHz	100 ± 15 Ω	
	100- 250 MHz	100 ± 20 Ω	
	250 - 500 MHz	100 ± 25 Ω	
Propagation velocity	76%		
Mutual pair capacitance	≤ 42 pF/m		
Capacitance unbalance pair/ground	≤ 1500 pF/km		
Conductor DC resistance	< 79.8 Ω/km		
Pair resistance unbalance DC	< 1.5%		
Dielectric strength	2.5 kV DC (2s)		
Insulation resistance (500V)	> 5000 MΩ.km		
Voltage rating	30 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

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

