

EUROLAN Copper cable

C6_A U/UTP



Ordering information

Part number	E-number	Description
19C-UA-DCA-R500WT/ 19D-UA-22WT	4902005	Eurolan C6a 4pair U/UTP LSZH White DCA 500m/reel

Construction

Conductor	Bare copper wire Ø 0,565 mm (AWG23)
Insulation	Solid Polyethylene, Ø 1,18 mm nom
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core
Overall screen	Patented 10G Folie Zebra tape no-continuity
Sheath	Ø 7,70 mm - LSZH
Fire load	585 MJ/km; 0,163 kWh/m
Weight kg/km	60
Copper content	24
Tensile force N	100

Mechanical Properties

Bending radius	Without load	≥ 4 x OD
	With load	≥ 8 x OD
Temperature range	During operation	-20°C to + 70°C
	During installation	0°C to + 50°C

✓ Verified for high-speed applications up to 500MHz (10Gbit Ethernet)

✓ **Application:**
Primary (campus), Secondary (riser), Tertiary (horizontal)
IEEE 802.3: 10/100/1000/10000 BaseT
IEEE 802.5 16MB; ISDN; FDDI; ATM
Power over Ethernet (PoE)/ PoE+

✓ **Standards:**
EIA/TIA 568-C.2
ISO/IEC 11801 2nd ed; IEC 61156-5
EN 50173; EN 50288-11-1
IEEE 802.3at

✓ **Fire rating:**
LSZH: IEC 60332-3-25; IEC 60754-2;
IEC 61034

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Electrical Properties (at 20°C +/- 5°C)

DC loop resistance		≤ 158 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩxkm
Capacitance	At 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Nominal velocity propagation (NVP)		Approx. 66%
Propagation delay		≤ 427 ns/100 m
Delay skew		≤ 12 ns/100 m
Test voltage	(DC, 1 min) Core/Core and Core/Screen	1000 V
Coupling attenuation		≥ 40dB

Electrical Data (nominal) acc. to C6_A (at 20°C)

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	2,1	75,3	72,3	68,0	65,0	20,0
4,0	3,8	66,3	66,3	56,0	53,0	23,0
10,0	5,9	60,3	57,3	47,0	45,0	25,0
16,0	7,5	57,2	54,2	43,9	40,9	25,0
20,0	8,4	55,8	52,8	42,0	39,0	25,0
31,2	10,5	52,9	49,9	38,1	35,1	24,0
62,5	15,0	48,4	45,4	32,1	29,1	22,0
100,0	19,1	45,3	42,3	28,0	25,0	20,0
125,0	21,5	43,8	40,8	26,1	23,1	19,0
155,5	24,1	42,4	39,4	24,2	21,2	19,0
175,0	25,7	41,7	38,7	23,1	20,1	18,0
200,0	27,6	40,8	37,8	22,0	19,0	18,0
250,0	31,1	39,3	36,3	20,0	17,0	17,3
500,0	45,3	34,8	31,8	14,0	11,0	17,3