

EUROLAN Copper cable

C6_A U/UTP



BYGGVARUBEDÖMNINGEN



Ordering information

Part number	E-number	Description
19D-UA-DCA-R500WT	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	Foil - Special barrier tape
Sheath	Ø 7,2 mm ± 0,3mm - LSZH
Burning load	745 kJ/m
Weight kg/km	50
Max rec. Pulling tension	80 N

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

DoP

Documentno	ZB-1001
Declared performance	Reaction to Fire: Dca-s2,d2,a2 according to EN-50575:2014+A1:2016

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

✓ **Application:**
Primary (campus), Secondary (riser), Tertiary (horizontal) Indoor
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.1
ISO/IEC 11801 2nd ed; IEC 61156-5
EN 50173; EN 50288-11-1
IEEE 802.3at

✓ **Fire rating:**
EN 50399: Class Dca s2 d2 a1
LSZH: IEC 60332-3-25; IEC 60754-2;
IEC 61034

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

Max conductor DCR	9,5 Ω/km
Max DCR unbalanced between pairs	4%
Max DCR unbalanced within pair	2%
Max capacitance unbalanced pair to pair	1,600 pF/m
Max mutual capacitance	56 pF/m
Nominal velocity propagation (NVP)	67%
Max Delay skew	45 ns/100 m
Max recommended current	1,5 A
Voltage rating	72 V DC

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

F (MHz)	Attenuation (dB/100m)	NEXT (dB)	PS-NEXT (dB)	ACR (db)	PSACR (db)	ELFEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1,0	2,1	75,3	72,3	73,2	70,2	68,0	65,0	20,0
4,0	3,8	66,3	63,3	62,5	59,5	56,0	53,0	23,0
10,0	5,9	60,3	57,3	54,4	51,4	48	45,0	25,0
16,0	7,5	57,2	54,2	49,8	46,8	43,9	40,9	25,0
31,2	10,5	52,9	49,9	42,4	39,4	38,1	35,1	23,6
62,5	15,0	48,4	45,4	33,4	30,4	32,1	29,1	21,5
100,0	19,1	45,3	42,3	26,2	23,2	28,0	25,0	20,1
125,0	21,5	43,8	40,8	22,3	19,3	26,1	23,1	19,4
200,0	27,6	40,8	37,8	13,2	10,2	22,0	19,0	18,0
250,0	31,1	39,3	36,3	8,3	5,3	20,0	17	17,3
300,0	34,3	38,1	35,1	3,9	0,9	18,5	15,5	17,3
500,0	35,3	34,8	31,8	-10,4	-13,4	14,0	11,0	17,3