

EUROLAN Copper cable

C6 U/UTP Slimline



BYGGVARUBEDÖMNINGEN



Ordering information

Part number	E-number	Description
19D-U6-25WT-B305	4903203	Eurolan C6 4 pair U/UTP LSZH Slimline DCA 305m/box
19D-U6-25WT-T500	4903205	Eurolan C6 4 pair U/UTP LSZH Slimline Dca 500m/reel

Construction

Conductor	Bare copper wire Ø 0,54 mm (AWG23)
Insulation	Solid Polyethylene, Ø 0.95 mm nom
Twisting	2 cores to the pair
Cable lay up	1x4 pairs to the core, non-metallic cross separator (spline)
Sheath	Ø 5,40 mm - LSZH
Fire load	325 MJ/km; 0,089 kWh/m
Weight kg/km	37
Copper content	18,1
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 + 60°C
	During installation	0°C to + 50°C

DoP

Documentno	ZMEU-100002
Certification date	2017-03-31
AVCP	System 3
Notified body	3P Third Party Testing, Denmark
Declared performance	Reaction to Fire: Dca-s2,d2,a1 according to EN-50575:2014+A1:2016

✓ Verified for high-speed applications up to 250 MHz (1Gbit 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 50288-6-1
IEEE 802.3at

✓ **Fire rating:**
EN 50399: Class Dca s2 d2 a1
LSZH: IEC 60332-1; IEC 60754-2;
IEC 61034

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

DC loop resistance		≤ 176 Ω/km
Resistance unbalance		≤ 2%
Insulation resistance	(500 V)	≥ 5000 MΩxkm
Capacitance	At 800 Hz	Nom. 48 nF/km
Capacitance unbalance	(pair to ground)	≤ 1500 pF/km
Nominal velocity propagation (NVP)		Approx. 67%
Mean impedance 100MHz		100+/- 5Ω
Propagation delay		≤ Nominal 535 ns/100 m
Delay skew		≤ 20 ns/100 m
Test voltage	(DC, 1 min) Core/Core	1000 V

Electrical Data (nominal) acc. to C6 (at 20°C)

F	Attenuation		NEXT		PS-NEXT		ACR		PS-ACR		ELFEXT		PS-ELFEXT		Return loss	
(MHz)	(dB/100m)		(dB)		(dB)		(dB/100m)		(dB/100m)		(dB/100m)		(dB/100m)		(dB)	
	Max	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom
1,0	2,1	1,9	74,0	78,0	72,0	75,0	72,0	76,1	70,0	73,1	68,0	82,0	65,0	80,0	20,0	22,0
4,0	3,8	3,8	65,0	69,0	63,0	66,0	61,2	65,2	59,2	62,2	56,0	70,0	53,0	68,0	23,0	25,0
10,0	6,0	6,0	59,0	63,0	57,0	60,0	53,0	57,0	51,0	54,0	48,0	62,0	45,0	60,0	25,0	27,0
16,0	7,6	7,6	56,0	60,0	54,0	57,0	48,4	52,3	46,4	49,3	44,0	58,0	41,0	56,0	25,0	27,0
20,0	8,5	8,5	55,0	59,0	53,0	56,0	46,5	50,0	44,5	47,0	42,0	56,0	39,0	54,0	25,0	27,0
31,2	10,7	10,7	52,0	56,0	50,0	53,0	41,3	45,0	39,3	42,0	38,0	52,0	35,0	50,0	23,6	26,0
62,5	15,5	15,1	47,0	51,0	45,0	48,0	31,5	36,0	29,5	33,0	32,0	46,0	29,0	44,0	21,5	24,0
100,0	19,9	19,1	44,0	48,0	42,0	45,0	24,1	28,9	22,1	25,9	28,0	42,0	25,0	40,0	20,1	23,0
125,0	22,5	21,3	43,0	47,0	41,0	44,0	20,5	25,2	18,5	22,2	26,0	40,0	23,0	38,0	19,5	22,0
155,5	25,4	23,8	42,0	45,0	40,0	42,0	16,6	21,3	14,6	18,3	24,0	38,0	21,0	36,0	18,8	21,0
175,0	27,1	25,3	41,0	44,0	39,0	41,0	13,9	19,1	11,9	16,1	23,0	37,0	20,0	35,0	18,4	21,0
200,0	29,2	27,0	40,0	44,0	38,0	41,0	10,8	16,5	8,8	13,5	22,0	36,0	19,0	34,0	18,0	20,0
250,0	33,0	32,0	38,0	42,0	36,0	39,0	5,0	10,0	2,0	7,0	20,0	34,0	17,0	32,0	17,3	19,0
300,0		36,1		41,0		38,0		4,8		1,8		32,0		30,0		19,0
400,0		41,7		39,0		36,0		-2,7		-5,7		30,0		28,0		18,0