

EUROLAN Copper cable

C6_A U/FTP Cca



Ordering information

Part number	E-number	Description
19CCA-TA-23WT-R500		Eurolan C6 _A 4 pair U/FTP LSZH CCA 500m/reel

Construction

Conductor	Bare copper wire Ø 0,56 mm (AWG23/1)
Insulation	Foamskin Polyethylene, Ø 1.330 ±0,05 mm nom
Twisting	2 cores to the pair
Pair screen	High performance STP: Al-laminated plastic foil, patented wrapping of two pairs each, drain wire AWG26 tinned
Cable lay up	2x2 pairs to the core
Sheath O.D	Ø 7,5 ± 0,5mm LSZH White
Fire load	493 MJ/km; 0,137 kWh/m / 986 MJ/km; 0,274 kWh/m/
Weight kg/km	57,7 kg/km
Copper content	18,8 kg/km
Tensile force N	110

Mechanical Properties

Bending radius	Installation	8 x OD
	Installed	4 x OD
Temperature range	During operation	-40°C to +75°C
	During installation	-10°C to +50°C



- ✓ Verified for high-speed applications up to 500 MHz (10Gbit Ethernet)
- ✓ **Application:**
Primary (campus), Secondary (riser), Tertiary (horizontal)
IEEE 802.3:
10/100/1000/10000/10GBaseT
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 50173-1;
EN 50288-10, IEEE 802.3at
- ✓ **Classification:** Cca, s1a,d1,a1

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Electrical Properties (at 20°C +/- 5°C)		
DC loop resistance		19Ω/km
Resistance unbalance		In pair ≤2,0%; pair to pair ≤4,0%
Insulation resistance	(500 V)	5000 MΩ.km
Capacitance	At 800 Hz	5600pF/100m
Capacitance unbalance	(pair to ground)	300pF/100m
Nominal velocity propagation (NVP)		74%
Mean impedance 100MHz	100 MHz	100+/- 15
Propagation delay	Nominal	570ns@1MHz
Delay skew	Nominal	≤45ns/100m
Test voltage	(DC, 1 min) Core/Core and Core/Screen	1000V
Transfer impedance	At 1 MHz	50mΩ/m
	At 10 MHz	100mΩ/m
	At 30 MHz	200mΩ/m
Coupling attenuation		30 to 100MHz > 55db
Segregation classification acc. EN 50174-2		„b“

Electrical Data (nominal) acc. to C6 _A (at 20°C)							
F	Attenuation	NEXT	PS-NEXT	PHASE DELAY	ELFEXT	PS-ELFEXT	Return loss
(MHz)	(dB/100m)	(dB)	(dB)	(ns/100m)	(dB/100m)	(dB/100m)	(dB)
1,0		74,3	72,3	570	67,8	64,8	20,0
4,0	3,8	65,3	63,3	552	55,8	52,8	23,0
10,0	5,9	59,3	57,3	545	47,8	44,8	25,0
16,0	7,5	56,2	54,2	543	43,7	40,7	25,0
20,0	8,4	54,8	52,8	542	41,8	38,8	25,0
31,2	10,5	51,9	49,9	540	37,9	34,9	23,6
62,5	15,0	47,4	45,4	539	31,9	28,9	21,5
100,0	19,1	44,3	42,3	538	27,8	24,8	20,1
200,0	27,6	39,8	37,8	537	21,8	18,8	18,0
250,0	31,1	38,3	36,3	536	19,8	16,8	17,3
300,0	34,3	37,1	35,1	536	18,3	15,3	16,8
400,0	40,1	35,3	33,3	536	15,8	12,8	15,9
500,0	45,3	33,8	31,8	536	13,8	10,8	15,2