

# PRODUCT SPECIFICATION

CONNECT

IT

## EUROLAN Coppercable C6 2xU/UTP Dca



### Ordering information

Part number	E-number	Description
19SD-U6-23WT-R500	4903305	Eurolan C6 2x4 pair U/UTP 250MHz LSZH White Dca 500m/reel

### Physical characteristics

Conductor	Individual pair, Bare copper, AWG 24, 8pairs
Insulation	Individual pair, Dielectric, PE Polyolefin, $\varnothing$ 1,00mm
Color chart	Pair 1 white/blue - blue
	Pair 2 white/orange - orange
	Pair 3 white/green - green
	Pair 4 white/brown - brown
Cabling	2x4 pairs twisted together
Outer jacket material	LSZH, $\varnothing$ 5,5 (each cable) $\pm$ 0,3mm , figure 8 constr. 11,5mm

### Construction and dimensions

Min elongation at breakof conductors	10%
Min elongation at breakof insulation	100%
Min elongation at breakof jacket	100%
Min tensile strength of jacket	9 MPa

### Electrical characteristics

Max conductor DCR	94 Ohm/km
Max DCR unbalance between pairs (%)	5
Max DCR unbalanced within pair (%)	5



- Application:**  
 Horizontal and building back-bone cable. Support current and future Category 6 and 5e applications such as:  
 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM  
 Power over Ethernet (PoE):  
 4PPoE 100W
- Standards:**  
 ANSI/TIA 568.2-D 2018  
 ISO/IEC 11801 Ed 2.2:2002/A2:2010/C1:2011  
 EN 50173-1 Ed 3:2011  
 IEEE 802.3bt
- Fire rating:**  
**Dca-s2,d2,a1**  
**DoP number:**  
**ZBEU-0119D-U6-23**  
 EN-50575:2014+A1:2016  
 LSZH: EN 50267-1  
 IEC 60754-1

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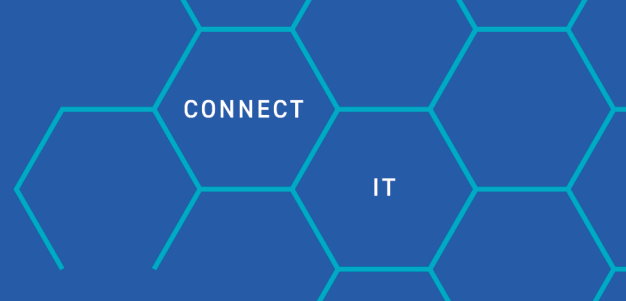
## EUROLAN Coppercable C6 2xU/UTP Dca

Electrical characteristics	
Max capacitance unbalanced pair to pair	1,600 pF/m
Max mutual capacitance	56 pF/m
Nominal characteristic impedance	100 Ohm
Max delay skew	45 ns/100m
Nominal velocity of propagation (NVP)	60%
Segregation class acc. EN50174-2	a
Max recommended current	1,5 Amps per conductor
Voltage rating	72 V DC

High Frequency										
Frequency (MHz)	Max attenuation (dB/100m)	Min NEXT (dB)	Min PSNEXT (dB)	Min ACR (dB)	Min PSACR (dB)	Min ELFEXT (dB)	Min PSELFEXT (dB)	Min Return loss (dB)	Min TCL (dB)	Min ELTCTL (dB)
1	2,1	75,3	72,3	73,2	70,2	70,0	67,0	20,0	40,0	35,0
4	3,8	66,3	63,3	62,4	59,4	58,0	55,0	23,0	34,0	23,0
10	6,0	60,3	57,3	54,3	51,3	50,0	47,0	25,0	30,0	15,0
16	7,6	57,2	54,2	49,6	46,6	45,9	42,9	25,0	28,0	10,9
20	8,5	55,8	52,8	47,3	44,3	44,0	41,0	25,0	27,0	9,0
31,25	10,7	52,9	49,9	42,1	39,1	40,1	37,1	23,6	25,1	5,1
62,5	15,5	48,4	45,4	32,9	29,9	34,1	31,1	21,5	22,0	
100	19,9	45,3	42,3	25,4	22,4	30,0	27,0	20,1	20,0	
155	25,3	42,4	39,4	17,1	14,1	26,2	23,2	18,8	18,1	
200	29,1	40,8	37,8	11,6	8,6	24,0	21,0	18,0	17,0	
250	33,0	39,3	36,3	6,3	3,3	22,0	19,0	17,3	16,0	

Table note: Limits below 4 MHz are for information only. Reference standard ISO/IEC 61156-5

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## EUROLAN Coppercable C6 2xU/UTP Dca

Temperature and mechanical characteristics	
Installation temp range	0°C to + 50°C
Operating temp range	-30°C to + 60°C
Bulk cable weight	68 kg/km
Max pull tension	130 N
Min bend radius installation	46 mm
Min bend radius operation	23 mm
Standards	
ISO/IEC Compliance	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
CPR euroclass	Dca-s2,d2,a1
Cenelec compliance	EN 50173-1 ed 3:2011
Category	6
ANSI compliance	ANSI/TIA 568.2-D (2018)
IEEE compliance	PoE IEEE 802.3bt Type 1-4
Environmental space	Indoor Euroclass Dca
RoHS compliance date	2009-04-29
IEC flammability	IEC 60332-1-2
Burning load	750 kJ/m
IEC 60754-1, EN50267-1 Halogen amount	zero