

# PRODUCT SPECIFICATION

CONNECT

IT

## EUROLAN Coppercable C6 U/UTP Dca



### Ordering information

Part number	E-number	Description
19D-U6-25WT-0	4903200	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca Cut
19D-U6-25WT-B100	4903202	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca 100m/box
19D-U6-25WT-B305	4903203	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca 305m/box
19D-U6-25WT-R500	4903205	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca 500m/reel
19D-U6-25WT-R1000	4903206	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca 1000m/reel
19D-U6-25WT-T9000	4903209	EuroLAN C6 4 pair U/UTP 250MHz LSZH White Dca 9000m/reel
19D-U6-25BU-0	4903380	EuroLAN C6 4 pair U/UTP 250MHz LSZH Blue Dca Cut
19D-U6-25BU-R1000	4903386	EuroLAN C6 4 pair U/UTP 250MHz LSZH Blue Dca 1000m/reel
19D-U6-25BU-T9000	4903389	EuroLAN C6 4 pair U/UTP 250MHz LSZH Blue Dca 9000m/reel



### Physical characteristics

<b>Conductor</b>	Individual pair, Bare copper, AWG 24, 4 pairs
<b>Insulation</b>	Individual pair, Dielectric, PE Polyethylene, $\varnothing$ 0,96mm
<b>Color chart</b>	Pair 1 white/blue - blue
	Pair 2 white/orange - orange
	Pair 3 white/green - green
	Pair 4 white/brown - brown
<b>Cabling</b>	4 pairs twisted together with a cross web of polyolefin
<b>Outer jacket material</b>	LSZH/FRNC, $\varnothing$ 5,4 $\pm$ 0,3mm, nylon ripcord

### Construction and dimensions

<b>Min elongation at breakof conductors</b>	10%
<b>Min elongation at breakof insulation</b>	100%
<b>Min elongation at breakof jacket</b>	100%

### Electrical characteristics

<b>Max conductor DCR</b>	95 Ohm/km
<b>Max DCR unbalance between pairs (%)</b>	4
<b>Max DCR unbalanced within pair (%)</b>	2

- Application:**  
 Horizontal and building backbone 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: ZMEU-300001  
 EN-50575:2014+A1:2016  
 LSZH: EN 50267-1  
 IEC 60754-1

# PRODUCT SPECIFICATION



## EUROLAN Coppercable C6 U/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	40 ns/100m
Nominal velocity of propagation (NVP)	70%
Coupling attenuation class	Type III
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 PSEL-FEXT (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	44,4	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

# PRODUCT SPECIFICATION



## EUROLAN Coppercable C6 U/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	32 kg/km
Max pull tension	80 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	2018-01-03
IEC flammability	IEC 60332-1-2
Burning load	450 kJ/m
IEC 60754-1, EN50267-1 Halogen amount	zero