

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C6A U/UTP Dca



Ordering information

Part number	E-number	Description
19D-UA-DCA-R500WT	4902005	EuroLAN C6A 4 pair U/UTP 500MHz LSZH White Dca 500m/reel
19C-UA-DCA-0	4902000	EuroLAN C6A 4 pair U/UTP 500MHz LSZH White Dca Cut

Physical characteristics

Conductor	Bare copper, AWG 23, 4 pairs
Insulation	Polyethylene, \varnothing 1.2mm
Color chart	Pair 1 white/blue - blue
	Pair 2 white/orange - orange
	Pair 3 white/green - green
	Pair 4 white/brown - brown
Cabling	4 pairs twisted together + cross web of polyolefin + overlapping polyester foil over cable core
Outer shield material	Tape
Outer jacket material	LSZH, \varnothing 7,1 \pm 0,3mm

Construction and dimensions

Min elongation at break of jacket	100%
Min Tensile strength of jacket	9 MPa

Electrical characteristics

Max conductor DCR	95 Ohm/km
Max DCR unbalance 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 characteristic impedance	100 Ohm
Max delay skew	45 ns/100m
Nominal velocity of propagation (NVP)	67%



- Application:**
 Horizontal and building backbone cable. Support current and future Category 6A and 6 applications such as:
 10GBase-T (10 Gigabit Ethernet),
 1000Base-T (Gigabit Ethernet),
 100 Base-T, 10 Base-T, FDDI, ATM
 Power over Ethernet (PoE):
 4PPoE 100W
- Standards:**
 ANSI/TIA 568.2-D
 ISO/IEC 11801
 EN 50173-1
 IEEE 802.3bt
- Fire rating:**
Dca-s2,d2,a1
DoP number: ZB-1001
 EN-50575:2014+A1:2016
 LSZH: IEC 60332-1-2
 IEC 60754-1

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C6A U/UTP Dca

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 PSANEXT (dB)	Min PSAACRF (dB)	Min TCL (dB)	Min ELTCTL (dB)
1	2,1	75,3	72,3	73,2	70,2	68,0	65,0	20,0	67,0	67,0	40,0	35,0
4	3,8	66,3	63,3	62,5	59,5	56,0	53,0	23,0	67,0	66,2	40,0	23,0
10	5,9	60,3	57,3	54,4	51,4	48,0	45,0	25,0	67,0	58,2	40,0	15,0
16	7,5	57,2	54,2	49,8	46,8	43,9	40,9	25,0	67,0	54,1	38,0	10,9
31,25	10,5	52,9	49,9	42,4	39,4	38,1	35,1	23,6	67,0	48,3	35,1	5,1
62,5	15,0	48,4	45,4	33,4	30,4	32,1	29,1	21,5	65,6	42,3	32,0	
100	19,1	45,3	42,3	26,2	23,2	28,0	25,0	20,1	62,5	38,2	30,0	
125	21,5	43,8	40,8	22,3	19,3	26,1	23,1	19,4	61,0	36,3	29,0	
200	27,6	40,8	37,8	13,2	10,2	22,0	19,0	18,0	58,0	32,2	27,0	
250	31,1	39,3	36,3	8,3	5,3	20,0	17,0	17,3	56,5	30,2	26,0	
300	34,3	38,1	35,1	3,9	0,9	18,5	15,5	17,3	55,3	28,7		
500	45,3	34,8	31,8	-10,4	-13,4	14,0	11,0	17,3	52,0	24,2		

Segregation class acc. EN50174-2	b
Max recommended current	1,5 Amps per conductor
Voltage rating	72 V DC
Installation temp range	0°C to + 50°C
Operating temp range	-30°C to + 60°C
Bulk cable weight	50kg/km
Max pull tension	110 N
Min bend radius installation	58 mm
Min bend radius operation	29 mm

ISO/IEC Compliance	ISO/IEC 11801-1
CPR euroclass	Dca-s2,d2,a1
Cenelec compliance	EN 50173-1
Category	6A
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	2015-08-24
IEC flammability	IEC 60332-1-2
Burning load	520 kJ/m
IEC 60754-1 Halogen amount	zero