

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C5 U/UTP Dca



Ordering information

Part number	E-number	Description
19D-U5-23WT-B305	4903273	EuroLAN C5 4 pair U/UTP 100MHz LSZH White Dca 305m/box

Physical characteristics

Conductor	Individual pair, Bare copper, AWG 24, 4 pairs
Insulation	Individual pair, Dielectric, PE Polyolefin, \varnothing 0,9mm
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
Outer jacket material	LSZH, \varnothing 4,9 \pm 0,3mm

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



- Application:**
 Horizontal and building back-bone cable. Support current and future Category 5e applications such as:
 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM
 Power over Ethernet (PoE):
 4PPoE 60W
- Standards:**
 ANSI/TIA 568.2-D 2018
 ISO/IEC 11801-1, IEC 61156-5, IEC 60754-1, IEC 60754-2
 EN 50173-1 Ed 3:2011
 IEEE 802.3bt
- Fire rating:**
Dca-s2,d2,a1
DoP number:
ZMEU-01190-U5-23
 EN-50575:2014+A1:2016
 LSZH: EN 50267-1
 IEC 60754-1

PRODUCT SPECIFICATION



EUROLAN Coppercable C5 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)	60%
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	65,3	62,3	63,2	60,2	64,0	61,0	20,0	40,0	35,0
4	4,0	56,3	53,3	52,32	49,3	52,0	49,0	23,0	34,0	23,0
10	6,3	50,3	47,3	44,0	41,0	44,0	41,0	25,0	30,0	15,0
16	8,0	47,2	44,2	39,2	36,2	39,9	36,9	25,0	28,0	10,9
20	9,0	45,8	42,8	36,8	33,8	38,0	35,0	25,0	27,0	9,0
31,25	11,4	42,9	39,9	31,5	28,5	34,1	31,5	23,6	25,1	5,5
62,5	16,5	38,4	35,4	21,9	18,9	28,1	25,1	21,5	22,0	
100	21,3	35,3	32,3	14,0	11,0	24,0	21,0	20,1	20,0	

Table note: Limits below 4 MHz are for information only. Reference standard ISO/IEC 61156-5:2020

PRODUCT SPECIFICATION



EUROLAN Coppercable C5 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	28 kg/km
Max pull tension	65 N
Min bend radius installation	40 mm
Min bend radius operation	20 mm
Standards	
ISO/IEC Compliance	ISO/IEC 11801-1; IEC 61156-5, IEC 60754-1, IEC 60754-2
CPR euroclass	Dca-s2,d2,a1
Cenelec compliance	EN 50173-1 ed 3:2011
Category	5e
ANSI compliance	ANSI/TIA 568.2-D (2018)
IEEE compliance	PoE IEEE 802.3bt Type 1-3
Environmental space	Indoor Euroclass Dca
RoHS compliance date	2004-01-01
IEC flammability	IEC 60332-1-2
Burning load	285 kJ/m
IEC 60754-1, EN50267-1 Halogen amount	zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2,5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4,3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2