

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C6A F/UTP Dca



Ordering information

Part number	E-number	Description
19D-FA-23WT-R500	4903435	Eurolan C6A 4 pair F/UTP 500MHz LSZH White Dca 500m/reel

Physical characteristics

Conductor	Individual shielded pair, Bare copper, AWG 23, 4 pairs
Insulation	Individual pair, PE - Polyethylene, Ø 1.18mm
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 to cable core covered with a polyester foil. Center Member X-separator
Outer shield material	Tape: Bi-laminate (Alum+Poly) 100% coverage (Aluminium facing outside) Drainwire: 26 AWG (Solid) TC
Outer jacket material	LSZH, Ø 7,2 mm, nylon ripcord

Electrical characteristics

Max conductor DCR	95 Ohm/km
Max capacitance unbalanced pair to pair	1,600 pF/m
Max mutual capacitance	56 pF/m
Nominal characteristic impedance	100 Ohm



- **Application:**
Horizontal and building back-bone 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 11801-1
EN 50173-1
IEEE 802.3bt
- **Fire rating:**
Dca-s2,d1,a1
DoP number: ZMEU-300017
EN-50575:2014+A1:2016
LSZH: EN 50267-1
IEC 60754-1

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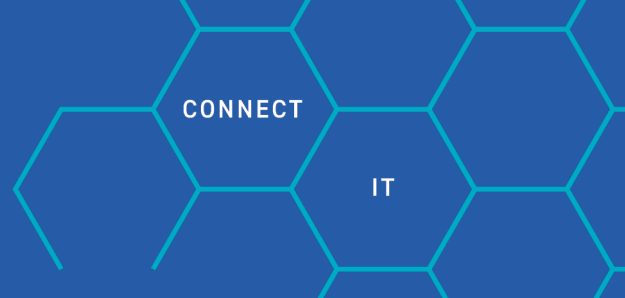
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Electrical characteristics	
Max delay skew	45 ns/100m
Nominal velocity of propagation (NVP)	67%
Screening class	Type II
Segregation class acc. EN50174-2	c
Transfer impedance	1MHz max 50 mOhm/m, 10 MHz max 100 mOhm/m, 30MHz max 200 mOhm/m, 100MHz max 1000 mOhm/m
Transfer impedance class	Grade 2
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 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	34,0	23,0
10	5,9	60,3	57,3	54,4	51,4	48,0	45,0	25,0	67,0	58,2	30,0	15,0
16	7,5	57,2	54,2	49,8	46,8	43,9	40,9	25,0	67,0	54,1	28,0	10,9
31,2	10,5	52,9	49,9	42,4	39,4	38,1	35,1	23,6	67,0	48,3	25,1	5,1
62,5	15,0	48,4	45,4	33,4	30,4	32,1	29,1	21,5	65,6	42,3	22,0	
100	19,1	45,3	42,3	26,2	23,2	28,0	25,0	20,1	62,5	38,2	20,0	
125	21,5	43,8	40,8	22,3	19,3	26,1	23,1	19,4	61,0	36,3	19,0	
200	27,6	40,8	37,8	13,2	10,2	22,0	19,0	18,0	58,0	32,2	17,0	
250	31,1	39,3	36,3	8,3	5,3	20,0	17,0	17,3	56,5	30,2	16,0	
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		

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

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Temperature and mechanical characteristics	
Installation temp range	0°C to + 50°C
Operating temp range	-30°C to + 60°C
Bulk cable weight	50 kg/km
Max pull tension	80 N
Min bend radius installation	58 mm
Min bend radius operation	29 mm
Standards	
ISO/IEC Compliance	ISO/IEC 11801-1, IEC 61034-2 - Smoke density min transmittance = 60%
CPR euroclass	Dca-s2,d1,a1
Cenelec compliance	EN 50173-1
Category	6A
TIA/EIA 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
European Halogen free standards	IEC 62821-1 Halogen Free compliance - Yes IEC 60754-1 Halogen amount = zero IEC 60754-2 Halogen acid gas amount - Max. conductivity = 2.5 µS/mm IEC 60754-2 Halogen acid gas amount - Min. pH = 4.3
European Directive Compliance	EU CE Mark