

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C6A S/FTP Dca



Ordering information

Part number	E-number	Description
19D-SA-23WT-R500	4903235	EuroLAN C6A 4 pair S/FTP 650MHz LSZH White Dca

Physical characteristics

Conductor	Individual shielded pair, Bare copper, AWG 23, 4 pairs
Insulation	Individ. shielded pair, Dielectric, Foamed Polyolefn, Ø 1.32mm
Color chart	Pair 1 white/blue - blue
	Pair 2 white/orange - orange
	Pair 3 white/green - green
	Pair 4 white/brown - brown
Cabling	2 twisted insulated conductors with overall foil, 4 pairs all twisted together with tinned copper braid shield (30%)
Inner shield material	Individ. shielded pair, tape, alu/polyester 100% coverage Aluminium facing outside
Outer shield material	Braid TC-tinned copper, min coverage 30%
Outer jacket material	LSZH/FRNC, Ø 7,0± 0,3mm, nylon ripcord

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

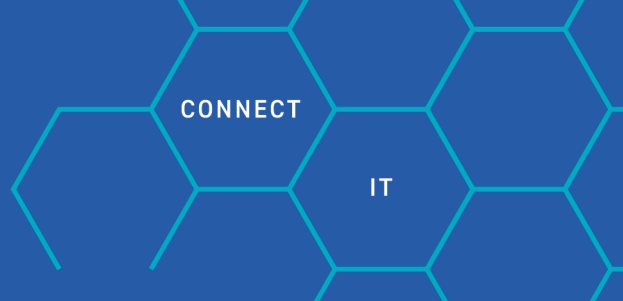
Electrical characteristics

Max conductor DCR	95 Ohm/km
Max DCR unbalance between pairs (%)	4
Max DCR unbalanced within pair (%)	2
Max capacitance unbalanced pair to pair	1,600 pF/m
Max mutual capacitance	56 pF/m



- 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 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,d1,a1
DoP number: ZMEU-200010
 EN-50575:2014+A1:2016
 LSZH: EN 50267-1
 IEC 60754-1

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Electrical characteristics	
Nominal characteristic impedance	100 Ohm
Max delay skew	45 ns/100m
Nominal velocity of propagation (NVP)	77%
Coupling attenuation class	Type Ib
Segregation class acc. EN50174-2	d
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
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 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
31,25	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			14,0	11,0	17,3	52,0	24,2		
650	52,3	33,1	30,1			11,7	8,7	17,3	50,3	21,9		

Table note: Limits below 4 MHz and at 650 MHz are for information only. Reference standard ISO/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	52 kg/km
Max pull tension	85 N
Min bend radius installation	58 mm
Min bend radius operation	29 mm
Standards	
ISO/IEC Compliance	ISO/IEC 11801 Ed. 2.2:2002/A2:2010/C1:2011
CPR euroclass	Dca-s2,d1,a1
Cenelec compliance	EN 50173-1 ed 3:2011
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	2018-01-03
IEC flammability	IEC 60332-1-2
Burning load	500 kJ/m
IEC 60754-1, EN50267-1 Halogen amount	zero