

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C6A U/FTP Dca



Ordering information		
Part number	E-number	Description
19D-TA-23WT-R500	4903215	Eurolan C6A 4 pair U/FTP 650MHz LSZH White Dca 500m/reel
19SD-TA-23WT-R500	4903265	Eurolan C6A 4 pair 2xU/FTP 650MHz LSZH White Dca 500m/reel

Physical characteristics	
Conductor	Individual shielded pair, Bare copper, AWG 23, 4/8 pairs
Insulation	Individ. shielded pair, Dielectric, Foamed Polyethylene, \emptyset 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 AWG 26 tinned copper drain wire
Inner shield material	Individ. shielded pair, tape, alu/polyester 100% coverage Aluminium facing outside
Outer shield material	TC-tinned copper, drainwire 26 AWG
Outer jacket material	LSZH/FRNC, \emptyset 6,9 \pm 0,3mm, nylon ripcord

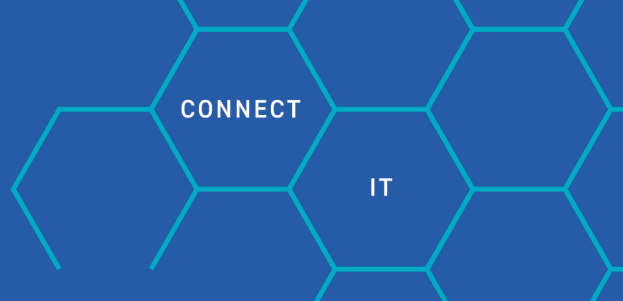
Construction and dimensions	
Min elongation at breakof jacket	100%
Min Tensile strength of jacket	9 MPa
Min elongation at breakout conductors	10%
Min elongation at breakout insulation	100%

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



- 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 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-200006 and ZMEU-200007
 EN-50575:2014+A1:2016
 LSZH: EN 50267-1

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Electrical characteristics	
Max delay skew	45 ns/100m
Nominal velocity of propagation (NVP)	77%
Coupling attenuation class	Type Ib
Segregation class acc. EN50174-2	d
Min elongation at breakof conductors	10%
Min elongation at breakof insulation	100%
Transfer impedance	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	
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 ed. 2,0 (2009)

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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	44/95kg/km
Max pull tension	79/160 N
Min bend radius installation	57 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	2018-01-04
IEC flammability	IEC 60332-1-2
Burning load	480/1000 kJ/m
IEC 60754-1, EN50267-1 Halogen amount	zero