

PRODUCT SPECIFICATION

CONNECT

IT

EUROLAN Coppercable C7A S/FTP Dca



Ordering information

Part number	E-number	Description
19D-F7A-23WT-R500	4903255	EuroLAN C7A 4 pair S/FTP 1200MHz LSZH White Dca 500m/reel

Physical characteristics

Conductor	Individual shielded pair, Bare copper, AWG 22, 4 pairs
Insulation	Individ. shielded pair, Dielectric, Foamed Polyethylene, Ø 1.5 mm
Color chart	Pair 1 white/blue - blue
	Pair 2 white/orange - orange
	Pair 3 white/green - green
	Pair 4 white/brown - brown
Cabling	4 shielded pairs twisted together
Inner shield material	Individ. shielded pair, tape, alu/polyester 100% coverage Aluminium facing outside
Outer shield material	Braid TC-tinned copper, min coverage 50%
Outer jacket material	LSZH Ø 8,0± 0,3mm , nylon ripcord

Electrical characteristics

Max conductor DCR	95 Ohm/km
Max capacitance unbalanced pair to pair	160 pF/m
Max mutual capacitance	56 pF/m



- **Application:**
Horizontal and building back-bone cable. Support current and future Category 6A, 7 and 7A 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
IEC 61034-2
EN 50173-1
IEEE 802.3bt
- **Fire rating:**
Dca-s2,d1,a1
DoP number: ZMEU-200016
EN-50575:2014+A1:2016
LSZH: EN 50267-1
IEC 60754-1

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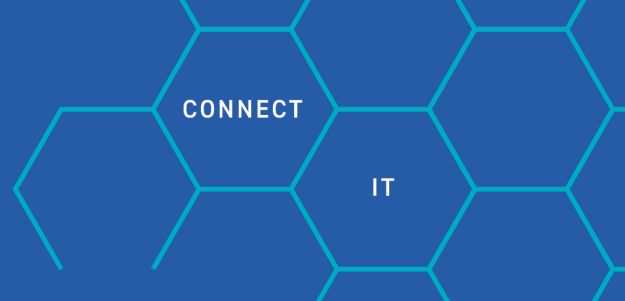
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Electrical characteristics	
Nominal characteristic impedance	100 Ohm
Max delay skew	25 ns/100m
Nominal velocity of propagation (NVP)	73%
Screening class	Type I
Segregation class acc. EN50174-2	d
Transfer impedance	1MHz max 10 mOhm/m, 10 MHz max 10 mOhm/m, 30MHz max 30 mOhm/m, 100MHz max 100 mOhm/m
Transfer impedance class	Grade 1
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	78,0	75,0	75,9	72,9	78,0	75,0	20,0	67,0	67,0	40,0	23,0
4	3,7	78,0	75,0	74,3	71,3	78,0	75,0	23,0	67,0	67,0	34,0	15,0
10	5,8	78,0	75,0	72,2	69,2	75,3	72,3	25,0	67,0	67,0	30,0	10,9
16	7,3	78,0	75,0	70,7	67,7	71,2	68,2	25,0	67,0	67,0	28,0	5,1
31,25	10,3	78,0	75,0	67,7	64,7	65,4	62,4	23,6	67,0	63,3	25,2	
62,5	14,6	78,0	75,0	63,4	60,4	59,4	56,4	21,5	67,0	57,3	22,0	
100	18,5	75,4	72,4	56,9	53,9	55,3	52,3	20,1	67,0	53,2	20,0	
155	23,2	72,5	69,5	49,3	46,3	51,5	48,5	18,8	67,0	49,4	18,1	
250	29,7	69,4	66,4	39,7	36,7	47,3	44,3	17,3	67,0	45,2	16,0	
500	42,8	64,9	61,9	22,2	19,2	41,3	38,3	17,3	67,0	39,2		
600	47,1	63,7	60,7	16,6	13,6	39,7	36,7	17,3	65,8	37,6		
1000	61,9	60,4	57,4	-1,5	-4,5	35,3	32,3	15,1	62,5	33,2		
1200	68,4	59,2	56,2	-9,1	-12,1	33,7	30,7	14,3				

Table note: Limits below 4 MHz and at 1200 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	67 kg/km
Max pull tension	105 N
Min bend radius installation	65 mm
Min bend radius operation	33 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	7A
TIA/EIA compliance	ANSI/TIA 568.2-D (2018)
IEEE compliance	PoE IEEE 802.3bt Type 1-4
Environmental space	Indoor Euroclass Dca
IEC flammability	IEC 60332-1-2
European directive compliance	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