

FutureCom™ U/FTP, 550/23, Category 6a 2x4P, LSZH™ / FRNC, green, Dca -s2, d2, a1, (VOL6aUFL8500)



Part Number:
MCXEDA-DD087-V004-L6

FutureCom™ U/FTP 550/23, 2x4P, LSOH-1 Cable:
twisted pair, foilshielded pair, surrounded by LSOH-1
Jacket, spec. up to 550MHz, AWG 23, 2x4 pairs, LSOH-1
Jacket, Green, Cat.6A acc. ISO/IEC11801, Dca -s2, d1, a1

Features and Benefits

U/FTP 550/23 copper cable specified up to 550 MHz

Fulfills all requirements of category 6A according to EN 50288-10-1 and IEC 61156-5

Ensures high system margins according ISO/IEC 11801 Ed.2.2 (2011) and EN 50173-1 series (2011)

Twisted pair, foilshielded pair, surrounded by a LSOH-1 Jacket

Flame retardant according to IEC 60332-1 and IEC 60332-3-24, EN 13501-6 and EN 50575 as well as non-corrosive according to IEC 60754-2 (NC)

Low smoke according to IEC 61034-2 and EN 50268; halogen-free (ZH/OH), no development of toxic gases in case of fire

Satisfies Class B + interference radiation as well as immunity standards (EN 55022 and EN 55024)

Supports Power over Ethernet (PoE / PoE+ / PoE++) according IEEE 802.3bt

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Specifications

General Specifications	
Construction	Duplex, 8P
Reaction to fire	Dca, s2, d2, a1
Environment	Indoor
Category	6A
Cable Type	U/FTP
Bandwidth	550 MHz
Halogen-free	Yes

Mechanical Specifications	
Fire Load	1100 MJ/m
Nominal Outer Diameter	6.9 mm
Maximum Tensile Strength	190 N
Min. Bend Radius Installation	8x Cable-Ø (over flat side)

Ordering Information	
Length	500 m
Weight	90 kg/km
Packing Type	Drum

Environmental Conditions	
Temperature Range, Installation	0 °C to 50 °C
Temperature Range, Operation	-20 °C to 60 °C

Cable Design	
Conductor	Copper Wire, AWG 23

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Cable Design	
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Pair screen	Al-laminated foil around each pair
Outer Jacket Material	LSZH™/FRNC
Outer Jacket Color	Green

Electrical Characteristics	
Conductor resistance unbalance	1 %
Delay skew	9 ns/100 m
Max. loop resistance	165 Ω/km
Propagation delay ≥10 MHz	425 ns/m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Insulation Resistance	5000 MΩ*km
Surface transfer impedence	100 mΩ
Propagation Velocity at >10 MHz (NVP*c)	79 %
Coupling Attenuation	55 dB

Standards	
RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Flame propagation test	Flame retardant according to IEC 60332-1-2 (single cable) and IEC 60332-3-24 (bunch of cables)
Smoke density	Low Smoke to IEC 61034

Electrical Characteristics										
Frequency [MHz]	1	10	16	20	31	63	100	250	500	550
Attenuation according to Standard [db/100m]	2.1	5.9	7.5	8.4	10.5	15.0	19.1	31.1	45.3	
Typical attenuation [db/100m]	1.8	5.3	6.8	7.6	9.6	13.6	17.3	27.7	41.9	42.6
NEXT according to Standard [db/100m]	75.3	60.3	57.2	55.8	52.9	48.4	45.3	39.3	34.8	

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Electrical Characteristics										
Typical NEXT Values [db/100m]	100.0	100.0	100.0	100.0	100.0	97.0	95.0	90.0	83.0	77.0
ACR-N according to Standard [db/100m]	73.2	54.4	49.8	47.4	42.4	33.4	26.2	8.3	-10.4	
Typical ACR-N Values [db/100m]	98.2	94.7	93.2	92.4	90.4	83.4	77.7	62.3	41.1	34.4



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