

# Everon™ Copper Datacom F/UTP 550/24, Category 6A, LSZH™/FRNC, Dca 4P, Green, 1000m



**Part Number:**  
**MCXEDE-DD047-V004-L7**

The Everon™ Copper Datacom F/UTP 550/24 cable is designed up to 550MHz and its transmission characteristics exceed Category 6A specifications according to EN50288-10-1 IEC 61156-5.

High system margins for the complete link according to the last version of ISO/IEC 11801 and EN 50173 (Series) will be achieved by using corresponding hardware together with this highend copper cable.

The cable has a streamlined construction and low weight.

Overall shielding with with a Allaminated foil and each twisted pair unshielded (F/UTP). The cable satisfies Class B interference radiation standards according to EN 55022, as well as immunity according to EN 55024, which enables the realization of CE-compatible networks.

## Features and Benefits

F/UTP 550/24 cable designed up to 550 MHz

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Fulfils all requirements of category EN50288-10-1 and IEC 61156-5

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Suitable for Classe D to EA according to ISO/IEC 11801. EN50173 and 10 Gigabit Ethernet according to IEEE 802.3an

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Tested and approved for Power over Ethernet applications (PoE/PoE+/4PPoE) according to IEEE 802.3af, IEEE 802.3at and IEEE 802.3bt up to 90W

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Low smoke and halogen-free (LSZH)

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Overall shielding with with a Allaminated foil and each twisted pair unshielded (F/UTP)

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Length marking on jacket

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Dca-s2,d2,a1

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CORNING

## Specifications

### General Specifications

Construction	Simplex, 4P
Legacy Part Number	VOL6AFL41000
Environment	Indoor
Category	6A
Cable Type	F/UTP
Bandwidth	550 MHz
Halogen-free	Yes
Reaction to fire	Dca, s2, d2, a1

### Mechanical Specifications

Fire Load	710 MJ/m
Nominal Outer Diameter	7 mm
Min. Bend Radius Installation	8x Cable-Ø
Maximum Tensile Strength	90 N

### Ordering Information

Product Number	MCXEDE-DD047-V004-L7
Length	1000 m
Weight	48 kg
Packing Type	Drum

### Environmental Conditions

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

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## Cable Design

Conductor	24 AWG
Conductor Insulation	Halogen-free foam-skin material
Twisting	2 cores to a pair
Outer Jacket Material	LSZH™
Outer Jacket Color	Green

## Electrical Characteristics

Conductor resistance unbalance	2 %
Delay skew	40 ns/100 m
Max. loop resistance	190 Ω/km
Propagation delay	520 ns/m
Voltage rating	Less than 75 V d.c max and less than 50 V a.c max
Surface transfer impedance	10 mΩ
Propagation Velocity at >10 MHz (NVP*c)	78 %
Coupling Attenuation	55 dB
Insulation Resistance	> 5000 MΩ/km

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; EN 50288-6-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA-568-C-2; IEC 60304, EN 50288-10-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA -568-C-2; IEC60304
Design and Test Criteria	Compliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3atIEEE 802.3 an 1000 Base-T
Flame propagation test	Flame retardant according to IEC 60332-1 and EN 50265-2-1
Smoke density	IEC 61034-2
Halogen content test	Zero Halogen to IEC 60754-1
Level of corrosion	Non-corrosive according to IEC 60754-2

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Electrical Characteristics								
Frequency [MHz]	4	10	20	63	100	250	500	550
Attenuation according to Standard [db/100m]	3.8	5.93	8.38	14.99	19.14	31.1	45.26	47.7
Typical attenuation [db/100m]	3.6	5.5	7.9	14.5	18.5	30.0	43.0	50.0
NEXT according to Standard [db/100m]	66.27	60.3	55.78	48.36	45.3	39.3	34.82	34.19
Typical NEXT Values [db/100m]	71.0	65.0	61.0	53.0	50.0	44.0	40.0	39.0
ACR-N according to Standard [db/100m]	55.96	48.0	41.98	32.08	28.0	8.3	14.02	13.19
Typical ACR-N Values [db/100m]	78.0	70.0	64.0	54.0	50.0	45.0	40.0	39.0



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