

# FutureCom™ F/UTP 550/24, Category 6A, LSZH™/FRNC, B2ca 4P, Green



CORNING

**Part Number:**  
**UU009175728**

FutureCom™ F/UTP 500/24, LSZH Cable: twisted pair, surrounded by an overall metallic foil shield, spec. up to 550MHz, AWG 24, LSZH Jacket, Cat.6A acc. ISO/IEC11801, B2ca-s1a,d0,a1

## Features and Benefits

F/UTP 550/24 copper cable specified up to 550 MHz

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

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

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Twisted pair, surrounded by an overall metallic foil shield

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LSOH Jacket, CPR B2ca-s1a,d0,a1

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

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

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## Specifications

### Environmental Conditions

Temperature range, installation	0 °C to 50 °C
Temperature range, operation	-20 °C to 60 °C

### General Specifications

Environment	Indoor
Category	6A
Cable type	F/UTP
Bandwidth	500 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	B2ca, s1a, d0, a1
Legacy Part Number	VOL6AFL4500

### Cable Design

Conductor	Copper Wire, AWG 24
Conductor insulation	Solid PE
Twisting	2 cores to a pair
Outer jacket material	LSZH™
Outer jacket colour	Green

### Mechanical Characteristics

Fire load	630 MJ/m
Nominal outer diameter	7.5 mm
Min. bend radius installation	8x Cable-Ø (over flat side)
Maximum tensile strength	80 N

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## Electrical Characteristics

Conductor resistance unbalance	2 %
Delay skew	45 ns/100 m
Max. loop resistance	190 MΩ*km
Propagation delay	545 ns/100 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 impedance	10 mΩ
Propagation velocity at >10 MHz (NVP*c)	69 %
Coupling attenuation	55 dB

## Ordering Information

Product Number	UU009175728
Length	500 m
Weight	49.5 kg
Weight	49.5 kg/km
Packing type	Drum

## Standards

RoHS	Free of hazardous substances according to RoHS 2011/65/EU
Approvals and Listings	IEC 61156-5; 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 60332-1-2 (single cable)
Smoke density	Low Smoke to IEC 61034
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	5.9	8.4	15.0	19.1	31.1	45.3	
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]	66.3	60.3	55.8	48.4	45.3	39.3	34.8	
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]	62.5	54.4	47.4	33.4	26.2	8.3	-10.4	
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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