

FutureCom™ U/UTP 550/24, Category 6A, LSZH™/FRNC, Eca 4P, Green



CORNING

Part Number:
UU004891568

FutureCom™ U/UTP 550/24, LSZH Cable: twisted pair,
covered by a LSZH jacket, spec. up to 550MHz, AWG 24,
LSZH acc. to IEC60332-1, Cat.6A acc. ISO/IEC11801, Eca

Features and Benefits

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

Fulfills all requirements of category 6A according to EN
50288-11-1 and IEC 61156-5

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

Twisted pair, covered by a LSZH Jacket CPR Eca

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

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	U/UTP
Bandwidth	500 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Eca

Cable Design

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

Mechanical Specifications

Fire Load	1260 MJ/m
Nominal Outer Diameter	7.3 mm x 15 mm
Min. Bend Radius Installation	8x Cable-Ø (over flat side)
Maximum Tensile Strength	160 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	40 dB

Ordering Information

Product Number	UU004891568
Length	500 m
Weight	97 kg
Weight	97 kg/km
Packing Type	Drum

Standards

Approvals and Listings	IEC 61156-5; EN 50288-11-1, ISO/IEC 11801 Ed. 2.2; EN 50173-1, ANSI/TIA -568-C-2; IEC60304
Design and Test Criteria	IEEE 802.3 an 1000 Base-TCompliant with PoE / PoE++ IEEE 802.3af, IEEE 802.3at
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	5.7	8.3	14.8	19.0	31.0	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]	68.0	60.0	38.2	38.2	13.0	13.0	40.0	39.0



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