

FutureCom™ U/UTP 450/24, Category 6, LSZH™/FRNC, Cca 4P, green

The CORNING logo is displayed in white, uppercase letters on a dark blue rectangular background.**Part Number:
UU009175405**

FutureCom™ U/UTP 450/24, LSZH Cable: twisted pair,
covered by a LSZH jacket, spec.
up to 200MHz, AWG 24, Cat.6 acc. ISO/IEC11801, Cca-
s1a,d0,a1

Features and Benefits

U/UTP 450/24 copper cable specified up to 200 MHz

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

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

Twisted pair, covered by a LSZH Jacket, CPR Cca-
s1a,d0,a1

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	6
Cable Type	U/UTP
Bandwidth	250 MHz
Halogen-free	Yes
Construction	Simplex, 4P
Reaction to fire	Cca-s1a,d0,a1
Legacy Part Number	VOL6UL4500

Cable Design

Conductor	Copper Wire, AWG 24
Conductor Insulation	Solid PE
Twisting	2 cores to a pair
Outer Jacket Material	LSZH™
Outer Jacket Color	Green

Mechanical Specifications

Fire Load	440 MJ/m
Nominal Outer Diameter	6.1 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	40 ns/100 m
Max. loop resistance	190 MΩ*km
Propagation delay	520 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
Propagation Velocity at >10 MHz (NVP*c)	69 %
Coupling Attenuation	40 dB

Ordering Information

Product Number	UU009175405
Length	500 m
Weight	36 kg
Packing Type	Drum

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
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

Electrical Characteristics

Frequency [MHz]	4	10	20	63	100	155	200
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Electrical Characteristics

Attenuation according to Standard							
Typical attenuation [db/100m]	3.8	6.0	8.5	15.2	19.5	25.0	28.0
NEXT according to Standard							
Typical NEXT Values [db/100m]	63.0	57.0	52.0	45.0	42.0	39.0	37.0
ACR-N according to Standard							
Typical ACR-N Values [db/100m]	59.2	51.0	43.5	29.8	22.5	14.0	9.0



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, Germany
+00 800 2675 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

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