

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



CORNING

Part Number:
UU009189521

FutureCom™ U/UTP 550/24, LSZH Cable: twisted pair,
covered by a LSZH jacket, spec. up to 550 MHz, AWG 24,
Cat.6A acc. ISO/IEC11801, B2ca-s1a,d0,a1

Features and Benefits

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

Fulfills all requirements of Cat.6 acc. 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 B2ca-
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 | 6A |
| Cable Type | U/UTP |
| Bandwidth | 500 MHz |
| Halogen-free | Yes |
| Construction | Simplex, 4P |
| Reaction to fire | B2ca, s1a, d0, a1 |
| Legacy Part Number | VOL6AUL4500 |

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 | 630 MJ/m |
| Nominal Outer Diameter | 7.6 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 |
| Propagation Velocity at >10 MHz (NVP*c) | 69 % |
| Coupling Attenuation | 40 dB |

| Ordering Information | |
|----------------------|-------------|
| Product Number | UU009189521 |
| Length | 500 m |
| Weight | 49 kg |
| Packing Type | Drum |

| Standards | |
|--------------------------|--|
| RoHS | Free of hazardous substances according to RoHS 2011/65/EU |
| 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 |

| Electrical Characteristics | | | | | | | | | |
|----------------------------|---|----|----|----|-----|-----|-----|-----|--|
| Frequency [MHz] | 4 | 10 | 20 | 63 | 100 | 250 | 500 | 550 | |

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Electrical Characteristics

| | | | | | | | | |
|---|------|------|------|------|------|------|-------|------|
| 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 | 66.3 | 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 | 62.5 | 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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