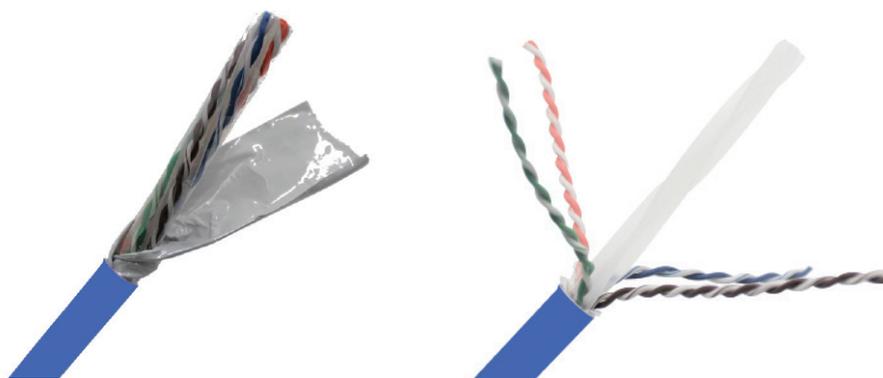


# PowerCat 6A UTP LS0H Cable Gen II >

The PowerCat 6A UTP LS0H Cable is specifically designed to support high-speed data network applications such as 10GBASE-T. The innovative design includes a double thermoplastic polymer, aluminum foil tape wrap surrounding the pairs, which provides excellent Alien Crosstalk defense. The low diameter of the cable allows for easier handling and higher cable density in containment, reducing cost. The product is 3rd party verified to ANSI/TIA-568.2-D and ISO 11801 Category 6A standards.



## FEATURES AND ADVANTAGES

Supports up to 500MHz frequency

Noise canceling isolation wrap surrounds the pairs for AXT protection

IEEE 802.3bt-2018 PoE compliance

ANSI-568.2-D and ISO-11801:2017 standards verified, ensuring reliability for high bandwidth mission-critical applications

Easy to install. No drain wire, grounding or bonding required

Low outer cable diameter 7.2mm nominal

## APPLICATIONS

IT Infrastructure Solutions:

- IT and Telecommunication
- Government and Education
- Financial
- Insurance
- Legal
- Healthcare

Suitable for any high-speed data application up to 500MHz 10/100/10GBASE-T

Backward compatible to legacy protocols and applications

[www.molex.com/products/copper/cat6a/](http://www.molex.com/products/copper/cat6a/)

# PowerCat 6A UTP LSOH Cable Gen II

## SPECIFICATIONS

### Commercial Standards

ANSI/TIA-568.2-D Cat 6A  
ISO 11801/IEC 11801:2017  
IEC 61156-5  
IEEE 802.3bt-2018  
IEEE 802.3an 10GBASE-T  
3rd Party verified by 3P

### Environmental Standards

RoHS Compliant  
REACH compliant

### Fire Propagation Tests

IEC 60332-1, IEC 60754-1&2,  
IEC 61034-2  
EN 50575:2014+A1:2016: EuroClass  
Dca-s2, d1, a1

### Mechanical

Tensile strength: 100N max.

### Electrical

#### DC Resistance:

77 Ohm/km max. (2% max. resistance unbalance)

#### DC Loop Resistance:

154 Ohm/km max. (2% max. resistance unbalance)

**Voltage Rating:** 72Vdc max.

**Delay Skew:** 45ns/100m

### Physical

**Pair Count:** 4

**Conductor:** Solid annealed copper

**AWG:** 23 (0.56mm)

**Insulation:** LSOH

**Cable Diameter:** 7.2+/-0.3mm

**Bending Radius (min.):** 8 x O.D.

**Weight (approx.):** 52kg/km nominal

**Sheath Color:** Blue RAL 5015

**Metal Wrap:** Double PET AL-Foil

**Operating Temperature:** -20 to +75°C

**Installation Temperature:** 0 to +50°C

**NVP:** 64% nominal

### PoE

**Our PowerCat 6A system is suitable for the most demanding PoE applications:**

IEEE 802.3bt from Type 1 to Type 4, and  
CISCO UPoE+

HD Base-T PoH up to 100W

RP3 compliant as defined by EN 50174-2:2018, ISO/IEC 14763-2:2019 and AS/NZS 14763.2:2020

### Notes:

For new installations of PoE Type 3 / Class 5 and above that wish to be eligible for the Molex 25 year Application Assurance Warranty, we require Category 6A cable to be used throughout.

To confirm your PoE / RP3 cabling design is eligible for the Molex 25 year Application Assurance Warranty, your design must be verified and validated with the Molex PoE Calculator. Read more <https://www.molexces.com/poe-calculator>

Molex recommends that the PoE feature on an individual switch port are power disabled prior to unplugging the associated powered Device.

Molex recommends that the full range of PowerCat 6A products be used in a system to maximize cabling and PoE performance

Details on Molex requirements for Warranty can be found at <https://www.molexces.com/about-us/our-warranty/>

## TRANSMISSION PROPERTIES

Frequency MHz	NEXT dB	IL dB	RL dB	PSNEXT dB	ACRF dB	PS ACRF dB	PS ANEXT dB	PS AACRF dB
1	74.3	2.1	20.0	72.3	67.8	64.8	92.5	78.2
10	59.3	5.9	25.0	57.3	47.8	44.8	77.5	58.2
20	54.8	8.4	25.0	52.8	41.8	38.8	73.0	52.2
31.25	51.9	10.5	23.6	49.9	37.9	34.9	70.1	48.3
62.5	47.4	15.0	21.5	45.4	31.9	28.9	65.6	42.3
100	44.3	19.1	20.1	42.3	27.8	24.8	62.5	38.2
200	39.8	27.6	18.0	37.8	21.8	18.8	58.0	32.2
250	38.3	31.1	17.3	36.3	19.8	16.8	56.5	30.2
500	33.8	45.3	15.2	31.8	13.8	10.8	52.0	24.2

[www.molexces.com/products/copper/cat6a/](https://www.molexces.com/products/copper/cat6a/)

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# PowerCat 6A UTP LS0H Cable Gen II >

## ORDERING INFORMATION

Order No.	SAP No.	Description
<b>Non-EU Markets</b>		
CAA-00445-BL	1810000034	PowerCat 6A UTP LS0H Cable 500m reel, Blue
CAA-00445-GR	1810000035	PowerCat 6A UTP LS0H Cable 500m reel, Green
<b>EU Markets</b>		
CAA-00447-BL	1810000036	PowerCat 6A UTP LS0H Dca Cable 500m reel, Blue

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