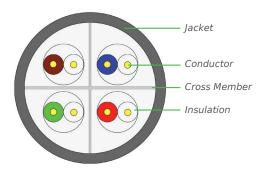


PowerCat 6 U/UTP LS0H Cable Cca-s1a,d1,a1 Easy-pull box >

Molex PowerCat 6 (C6) 4 Pair U/UTP cable has been designed to support high speed data transmission systems such as Gigabit Ethernet. The cable is part of the PowerCat 6 range of products that are designed to comply with the Category 6 specification.







FEATURES AND ADVANTAGES

Category 6 compliant

Color coded for ease of termination

Supplied on 305m easy-pull boxes

RoHS Compliant

Reaction to Fire Euroclass: Cca-s1a.d1.a1

SPECIFICATIONS

Commercial Standards

ISO 11801:2017, ANSI/TIA-568.2-D-2018, IEC 60332-1, IEC 61034-1&2, IEC 60754-1 & 2

Fire Propagation Tests

EU Regulation 305/2011 (CPR) EN 50575:2014+A:2016 Euroclass: Cca-s1a,d1,a1

Mechanical

Conductor Size: 0.530 ± 0.005 mm **Primary Insulation:** Polyethylene

Sheath Type: LS0H

External O.D: 6.0 ± 0.3mm

Sheath Color: Violet RAL4005

Average NVP%: 65% (nom.)

Minimum bend radius: 8 x o.d.

Maximum Pulling force: 100N

Operating Temperature: -15 to +75 **Installation Temperature:** 0° to + 50°C

Electrical

1.0-250.0MHz Impedance (Ω): 100 \pm 15 1.0-250.0MHz Delay Skew (ns/100m): 45 DC Resistance (Ω /100m) max.: 9.38 DC Conductor Resistance Unbalance (%):

Maximum 5.0

Physical

Shipping weight: 39kg/km

www.molexces.com/products/copper/cat6/



PowerCat 6 U/UTP LS0H Cable Cca-s1a,d1,a1 Easy-pull box >

SPECIFICATIONS (CONT.)

PoE

Our PowerCat 6 system is suitable for PoE applications as defined below:

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

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 6 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/ourwarranty/

TRANSMISSION PROPERTIES

Frequency MHz	NEXT dB/100m	Characteristic Impedance Ω	Attenuation dB/100m	RL dB/100m	PS-NEXT dB/100m	ELFEXT dB/100m	PS-ELFEXT dB/100m	Delay ns/100m	Skew ns/100m
1	74.3	100±15	2	20	72.3	68	65	570	45
4	65.3		3.8	23	63.3	56	53	552	
10	59.3		6	25	57.3	48	45	545.4	
16	56.2		7.6	25	54.2	43.9	40.9	543	
20	54.8		8.5	25	52.8	42	39	542	
31.25	51.9		10.7	23.6	49.9	38.1	35.1	540.4	
62.5	47.4		15.4	21.5	45.4	32.1	29.1	538.6	
100	44.3		19.8	20.1	42.3	28	25	537.6	
200	39.8		29	18	37.8	22	19	536.5	
250	38.3		32.8	17.3	36.3	20	17	536.3	

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00444-VL	181740188	PowerCat 6 U/UTP LS0H Cable Cca-s1a,d1,a1, Violet 305m easy-pull box

www.molexces.com/products/copper/cat6/