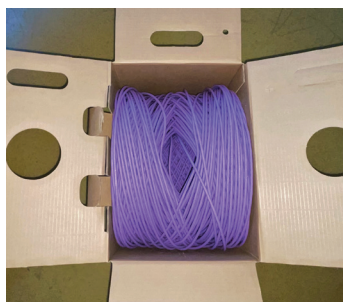
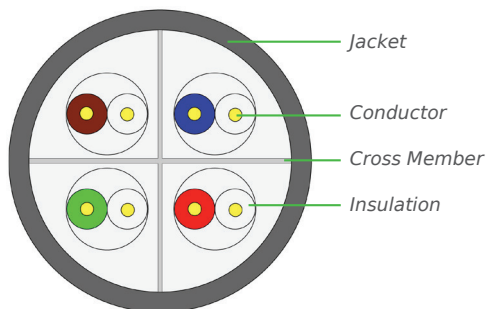


PowerCat 6 U/UTP LS0H Cable Dca-s1,d0,a1 Easy-pull box >

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: Dca- s1,d0,a1

SPECIFICATIONS

Commercial Standards

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

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass: Dca-s1,d0,a1

Mechanical

Conductor Size: $0.515 \pm 0.005\text{mm}$
Primary Insulation: Polyethylene
Sheath Type: LS0H
External O.D: $5.8 \pm 0.3\text{mm}$
Sheath Color: Violet RAL4005
Average NVP%: 65% (nom.)
Minimum bend radius: $8 \times \text{o.d.}$
Maximum Pulling force: 100N

Operating Temperature: -20° to 60°C

Installation Temperature: 0° to $+50^\circ\text{C}$

Electrical

1.0-250.0MHz Impedance (Ω): 100 ± 15
1.0-250.0MHz Delay Skew (ns/100m): 45
DC Resistance ($\Omega/100\text{m}$) max.: 9.38
DC Conductor Resistance Unbalance (%):
Maximum 5.0

Physical

Shipping weight: 39kg/km

www.molex.com/products/copper/cat6/

PowerCat 6 U/UTP LS0H Cable Dca-s1,d0,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/our-warranty/>

TRANSMISSION PROPERTIES

Frequency MHz	NEXT dB	IL dB	RL dB	PSNEXT dB	ACRF dB	PS ACRF dB
1	74.3	2.1	20.0	72.3	67.8	64.8
10	59.3	5.9	25.0	57.3	47.8	44.8
20	54.8	8.4	25.0	52.8	41.8	38.8
31.25	51.9	10.7	23.6	49.9	37.9	34.9
62.5	47.4	15.4	21.5	45.4	31.9	28.9
100	44.3	19.8	20.1	42.3	27.8	24.8
200	39.8	29.0	18.0	37.8	21.8	18.8
250	38.3	32.8	17.3	36.3	19.8	16.8

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00443-VL	181740187	PowerCat 6 U/UTP LS0H Cable Dca-s1,d0,a1, Violet 305m easy-pull box

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