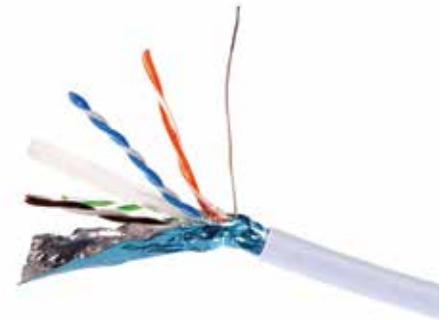


PowerCat 6 F/UTP Cable PVC

Molex PowerCat 6 F/UTP 4 Pair PVC Cable has been designed to support high speed data transmission systems. The cable is part of the PowerCat 6 F/UTP range of products that are designed to support a growing requirement for shielded cabling systems.

We recommend that the full range of PowerCat 6 F/UTP products are used in a system to maximize cabling performance, providing extended frequency response and enhanced bandwidth.



FEATURES AND ADVANTAGES

Enhanced performance 4 pair shielded LS0H cable

Category 6 compliant, independently tested

Color coded for ease of termination

500 meter reel

Reaction to Fire Euroclass: Eca

SPECIFICATIONS

Commercial Standards

ISO/IEC 11801 amendment 2:2010
TIA/EIA-568-C.2

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass Eca
DoP No: MLXCES-2017-C-009 located on web
<https://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/>

Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: Solid Polyethylene
Nominal O.D.: 1.12mm
Screen Material: Aluminum Mylar
Sheath Type: PVC
Nominal O.D.: 7.4mm +/-0.4mm
Operating Temperature: -20° to +60°
NVP: 70%
Sheath Color: Gray RAL 7037
Maximum Pulling Force: 100N
Shipping weight: 30.1kg

Electrical/Optical Characteristics

D.C. Resistance: 9.38 ohm/100m max
D.C. Conductor Resistance Unbalance: 5% max
Skew: <45ns/100m

www.molexces.com/products/copper/outlets/

PowerCat 6 F/UTP Cable PVC

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/>

TECHNICAL PERFORMANCE (100M)

Frequency (MHz)	RL ≥ dB	ATT(20°C) ≥ dB	NEXT ≥ dB	PHASE DELAY ≥ ns	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.00	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00161	181750036	PowerCat 6 F/UTP PVC Cable Eca violet 500m reel

www.molexces.com/products/copper/outlets/