

PowerCat 6 Cable

U/UTP LS0H ➤

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

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



PowerCat 6 U/UTP LS0H Cable

FEATURES AND ADVANTAGES

4 pair LS0H cable

Category 6 compliant

Color coded for ease of termination

305m reel in a box

SPECIFICATIONS

Commercial Standards

ISO/IEC 11801
ANSI/TIA-568-C.2

Flammability Test :

IEC 60332-1

Approvals:

ETL Verified to ANSI/TIA-568-C.2 & ISO/IEC 11801
UL Approved

RoHS Compliant

Mechanical

Conductor Size: 23 AWG
Primary Insulation: High Density Polyethylene
Pairs: 2 Insulated conductors twisted together
Separator: Polyolefin
Sheath: LS0H
Cable Diameter: 6.0+ 0.3 mm
NVP: 69%
Bending Radius: <4 X Cable Diameter (mm) at -20°C ± 1°C
Pulling Force: 11.5kgs
Temperature Range
Installation: 0°C to +50°C
Operation: -20°C to +70°C

Electrical

Characteristic Impedance: 100±15Ω
Conductor Resistance: ≤9.38Ω/100m
Mutual Capacitance: <5.6nF/100m
Resistance Unbalance: 5% Max
Capacitance Unbalance: 330pF/100m
Delay Skew: <45nS

Color Code

Pair No.	Color
1-2	White-Orange Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

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

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TRANSMISSION PROPERTIES

Frequency MHz	Insertion Loss dB/100m	RL dB	NEXT dB	PSNEXT dB	ELFEXT dB	PSELFEXT dB	ACR dB	PSACR dB
1	2.0	20.00	74.30	72.3	67.8	64.8	72.3	70.3
4	3.8	23.00	65.30	63.3	55.8	52.8	61.5	59.5
8	5.3	24.50	60.80	58.8	49.7	46.7	55.5	53.5
10	6.0	25.00	59.30	57.3	47.8	44.8	53.3	51.3
16	7.6	25.00	56.20	54.2	43.7	40.7	48.6	46.6
20	8.5	25.00	54.80	52.8	41.8	38.8	46.3	44.3
25	9.5	24.30	53.30	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.60	51.90	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.50	47.40	45.4	31.9	28.9	32.0	30.0
100	19.8	20.10	44.30	42.3	27.8	24.8	24.5	22.5
200	29.0	18.00	39.80	37.8	21.8	18.8	10.8	8.8
250	32.8	17.30	38.30	36.3	19.8	16.8	5.5	3.5

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00440	0181740181	CBL C6 UTP 4P LSOH 305M RIB (REEL IN BOX)

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