

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

EN 50173 2nd Edition, ISO/IEC 11801
2nd Edition, EIA / TIA 568.2-D
IEC 60754-2, IEC 61034-2
Fire Propagation Test: UL 1581
VW1, IEC 60332.1, EN0256-2-1
Performance Characters - Category 6 EIA / TIA 568.2-D

Oxygen index > 29% (ASTM D 2863)
Temperature index: 250 degC. (ASTM D 2863)
Acid Gas generation: max 0.5% by weight
(BS EN 50267-2-1)

RoHS Compliant

Mechanical

Conductor Size: 23 AWG
Primary Insulation: Solid Polyethylene
Nominal O.D.: 1.045 + 0.02mm
Twinning: Right hand lay
Sheath Type: LS0H 332.1
Minimal Wall: 0.55mm
Nominal O.D.: 6.1mm
Cable weight: 13.6 Kgs Nominal
NVP: 67%
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

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-00267	0181740086	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Violet
CAA-00267-BL	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Blue
CAA-00267-GY	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Gray
CAA-00267-YL	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Yellow
CAA-00267-RD	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Red
CAA-00267-GR	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP LS0H 332.1 - Green

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