

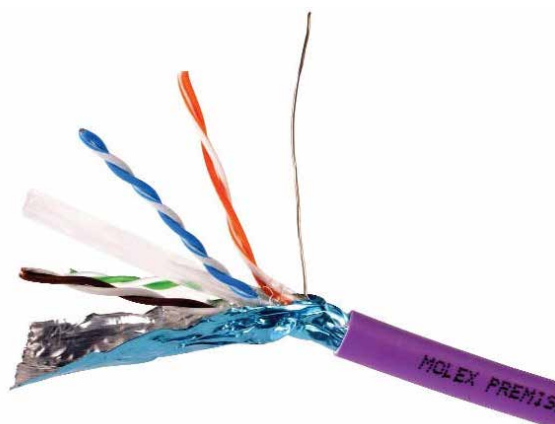
PowerCat 6 Cable

U/UTP LSZH

molex

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 maximise cabling performance, providing extended frequency response and enhanced bandwidth.



PowerCat 6 U/UTP LSZH Cable

Features and Advantages

Enhanced performance 4 pair PVC cable

Category 6 compliant

Colour coded for ease of termination

305m reel in a box

Specifications

REFERENCE INFORMATION

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
RoHS Compliant

MECHANICAL PROPERTIES

Conductor Size: 23 AWG
Primary Insulation: Solid Polyethylene
Nominal O.D.: 1.045 ± 0.02mm
Twinning: Right hand lay

Sheath Type: PVC & LSZH 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 CHARACTERISTICS

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.molexces.com

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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	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5

Ordering Information

Series No.	SAP No	Description
CAA-00266	Consult Molex	PowerCat 6 C6 Cable 305m reel in a box U/UTP PVC
CAA-00267	0181740086	PowerCat 6 C6 Cable 305m reel in a box U/UTP LSZH 332.1

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