

Features and Benefits

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.

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.

- Enhanced performance 4 pair LS0H cable
- Category 6 compliant
- Colour coded for ease of termination
- 500 metre and 305 metre reel
- RoHS Compliant
- Reaction to Fire Euroclass: Dca-s2,d2,a1

Commercial Standards

ISO/IEC 11801, EIA/TIA -568-C.2, EN 50173-1:2011, IEC 61156-5, IEC 60332-1-2 (332.1), EN50288-5,

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass: Dca-s2,d2,a1
DoP No: MLXCES-2018-C-031
located on web
<http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/>

Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: HDPE

Sheath Type: LS0H
External O.D: 6.2mm +/-0.4mm
Sheath Colour: Violet RAL4005
Average NVP% 69%

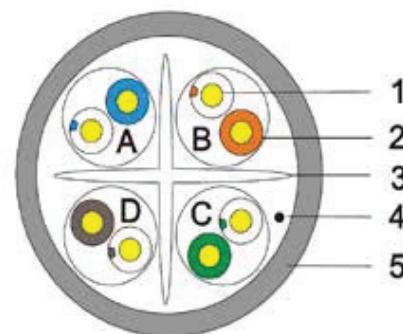
Maximum Pulling force 100N

Electrical/Optical Characteristics

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

Shipping weight

500m reel: 22.5kg
305m box: 14.9k



Technical Performance (100) (20):							
Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.00	-	74.30	570.00	72.30	67.80	64.80
4	23.00	3.78	65.30	552.00	63.30	55.80	52.80
8	24.50	5.32	60.80	546.73	58.80	49.70	46.70
10	25.00	5.95	59.30	545.38	57.30	47.80	44.80
16	25.00	7.55	56.20	543.00	54.20	43.70	40.70
20	25.00	8.47	54.80	541.20	52.80	41.80	38.80
25	24.30	9.51	53.30	541.20	51.30	39.80	36.80
31.25	23.60	10.67	51.90	540.44	49.90	37.90	34.90
62.5	21.50	15.38	47.70	538.55	45.40	31.90	28.90
100	20.10	19.80	44.30	537.60	42.30	27.80	24.80
200	18.00	28.98	39.80	536.54	37.80	21.80	18.80
250	17.30	32.85	38.30	536.27	36.30	19.80	16.80

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00325	181740057	PowerCat 6 U/UTP LS0H Cable Dca-s2,d2,a1 violet 500m reel
CAA-00305	181740044	PowerCat 6 U/UTP LS0H Cable Dca-s2,d2,a1 violet 305m box