FEATURES AND SPECIFICATIONS

molex

PowerCat 6 C6 Cable U/UTP LS0H IEC 60332-3

Features and Benefits

Molex Premise Networks 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 IEC 60332.3
- Category 6 compliant
- Colour coded for ease of termination
- 500 metre and 305 metre reel
- IEC 60332-3D fire rating

Commercial Standards

ISO/IEC 11801, EIA/TIA -568-C.2, EN61034 and EN50267

Fire Propagation Tests:

IEC 60332-3-25 (Category D)

Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: HDPE

Sheath Type: LS0H
External O.D: 6.5mm +/-0.4mm
Sheath Colour: Violet RAL4005
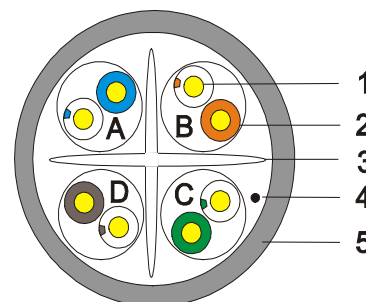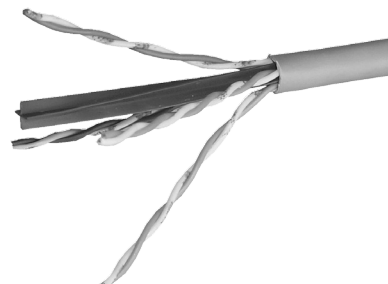Average NVP%   68%

Electrical 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

Technical Performance (100) (20):

Frequency (MHz)	RL ≥dB	ATT ≤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	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25	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.	Description
CAA-00318	PowerCat 6 C6 Cable 500m reel U/UTP LS0H IEC 60332-3

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