FEATURES AND SPECIFICATIONS

molex®

POWERCAT™ C6 U/UTP CABLE B2ca-s1a,d1,a1

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
- Category 6 compliant
- Colour coded for ease of termination
- 305 metre reel
- RoHS Compliant
- Reaction to Fire Euroclass: B2ca-s1a.d1.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 B2ca-s1a,d1,a1 DoP No: MLXCES-2018-C-026 located on web http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/

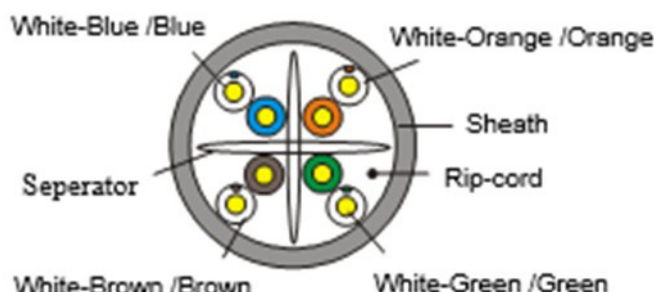## RoHS COMPLIANT

Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: HDPE
Sheath Type: LS0H
External O.D: 6.6±0.4 mm
Sheath Colour: Violet RAL4005
Average NVP%:   69%

Maximum Pulling force:110N

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

Freq.	RL	ATT (20°C)	NEXT	Phase Delay	PSNEXT	ELFEXT	PSELFEXT
MHz	>dB	>dB	>dB	<ns	>dB	>dB	>dB
1	20	2.03	74.3	570	72.3	67.8	64.8
4	23	3.78	65.3	552	63.3	55.8	52.8
8	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10	25	5.95	59.3	545.38	57.3	47.8	44.8
16	25	7.55	56.2	543	54.2	43.7	40.7
20	26	8.47	54.8	542.05	52.8	41.8	38.8
25	24.3	9.51	53.3	551.2	51.3	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	19.8	44.3	537.6	42.3	27.8	24.8
200	18	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.	SAP No.	Description
CAA-0336-VL	181740137	PowerCat C6 U/UTP LS0H Cable 305M Violet B2ca-s1a,d1,a1 305m

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