

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 PVC cable
- Category 6 compliant
- Colour coded for ease of termination
- 500 metre reel and 305 metre box
- Reaction to Fire Euroclass: Eca

Commercial Standards

ISO/IEC 11801 amendment 2:2010
TIA/EIA-568-C.2 Category 6
IEC 61156-5
Intertek ETL certified
RoHS compliant

Fire Propagation Tests:

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass Eca
DoP No: MLXCES-2017-C-005 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: PVC
External O.D: 6.2mm +/- 0.4mm
Sheath Colour: Grey (RAL 7037)
Average NVP%: 69%
Maximum Pulling Strength: 100N
Operating Temperature: -20°C to +65°C
Installation Temperature: -20°C to +50°C

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

Shipping weight:

500m reel: 23.8kg
305m box: 14.5kg



MOLEX CONNECTED ENTERPRISE SOLUTIONS

Americas
Tel: 630 969 4550
www.molexces.com

EMEA
Tel: 44 (0)2392 205800
www.molexces.co.uk

APAC
Tel: 61 3 9971 7111
www.molexces.com

Technical Information
Electrical Characteristics

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.	SAP No.	Description
CAA-00326	181740058	PowerCat 6 U/UTP PVC Cable Eca grey 500m reel
CAA-00302	181740041	PowerCat 6 U/UTP PVC Cable Eca grey 305m box

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