

## 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](http://www.molexces.com)

**EMEA**  
Tel: 44 (0)2392 205800  
[www.molexces.co.uk](http://www.molexces.co.uk)

**APAC**  
Tel: 61 3 9971 7111  
[www.molexces.com](http://www.molexces.com)

**Technical Information**  
**Electrical Characteristics**

<b>Technical Performance (100) (20):</b>							
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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**Declaration of Performance****DoP No:****MLXCES-2017-C-005****Unique Identification code & description of the product type:****CAA-00302      CAA-00326****181740041      181740058****U/UTP C6 PVC****Intended use:**

Data communications cable for use in construction works subject to reaction to fire requirements.

**Manufacturer:**

Molex Connected Enterprise Solutions Sp. z.o.o.

83-112 Lubiszewo

ul. Tczewska 2 Rokitki

Poland

**Assessment and Verification of Consistency of Performance (AVCP) system:**

AVCP: 3

**Harmonised Standard**

EN 50575:2014+A1:2016

**Notified Product Certification Body Name and Reference No.**

Electrotechnical Testing Institute: 1014

**Declared Performance:**

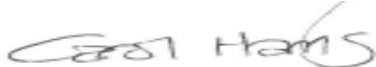
Reaction to Fire Euroclass:

**Eca**

Dangerous Substances: No Performance Declared.

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with Regulation (EU) No. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Name: Carol Harris  
Position: Product Manager  
Place: UK  
Date: 15-5-2017

Web address of the DoP : <http://www.molexc.es.com/about-us/our-compliance/cpr/>

English