

## Features and Benefits

Molex PowerCat 6 F/UTP 4 Pair cable has been designed to support high speed data transmission systems. The cable is part of the PowerCat 6 F/UTP range of products that are designed to support a growing requirement for shielded cabling systems.

We recommend that the full range of PowerCat 6 F/UTP products are used in a system to maximise cabling performance, providing extended frequency response and enhanced bandwidth.

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

## Commercial Standards

ISO/IEC 11801 amendment 2:2010  
TIA/EIA-568-C.2

## Fire Propagation Tests

EU Regulation 305/2011 (CPR)  
EN 50575:2014+A:2016  
Euroclass: Dca-s2,d2,a1  
DoP No: MLXCES-2018-C-030 located on web  
<http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/>

## Technical Information

### Mechanical Characteristics

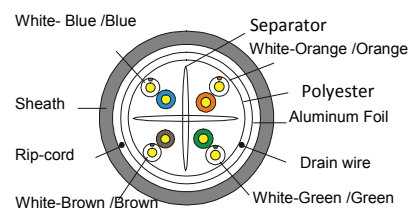
Conductor Size: 23 AWG  
Primary Insulation: Solid Polyethylene  
Nominal O.D.: 1.12mm  
Screen Material: Aluminium Mylar  
Sheath Type: LS0H  
Nominal O.D.: 7.4mm +/-0.4mm  
Operating Temperature: -30° to +60°  
Installation Temperature: -20°C to +50°C  
NVP: 69%  
Sheath Colour: Violet RAL 4005

Maximum Pulling Force: 100N

### Electrical/Optical Characteristics

D.C. Resistance : 9.38 ohm/100m max  
DC Conductor Resistance Unbalance: 5% max

Skew: <45ns/100m  
Shipping Weight 500m reel: 29.5kg



### Technical Performance (100m)

Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥Db	ELFEXT ≥dB	PSELFEXT ≥dB
1.00	20.00	-	74.30	570.00	72.30	67.80	64.80
4.00	23.00	3.78	65.30	552.00	63.30	55.80	52.80
8.00	24.50	5.32	60.80	546.73	58.80	49.70	46.70
10.00	25.00	5.95	59.30	545.38	57.30	47.80	44.80
16.00	25.00	7.55	56.20	543.00	54.20	43.70	40.70
20.00	25.00	8.47	54.80	541.20	52.80	41.80	38.80
25.00	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
62.50	21.50	15.38	47.70	538.55	45.40	31.90	28.90
100.00	20.10	19.80	44.30	537.60	42.30	27.80	24.80
200.00	18.00	28.98	39.80	536.54	37.80	21.80	18.80
250.00	17.30	32.85	38.30	536.27	36.30	19.80	16.80

## ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00251	181750035	PowerCat 6 F/UTP LS0H Cable Dca-s2,d2,a1 violet 500m reel

## 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)



Connected Enterprise Solutions



## Declaration of Performance

DoP No:

**MLXCES-2018-C-030**

Unique Identification code & description of the product type:

**CAA-00251**

**181750035**

**F/UTP C6 LS0H**

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.

Force:0200

Declared Performance:

Reaction to Fire Euroclass:

**Dca-s2,d2,a1**

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: 10-9-2018

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

English