

Features and Benefits

Molex Premise Networks 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: Eca

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 Eca
DoP No: MLXCES-2017-C-009 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: PVC
Nominal O.D.: 7.4mm +/-0.4mm
Operating Temperature: -20° to +60°
NVP: 70%
Sheath Colour: Grey RAL 7037
Maximum Pulling Force: 100N
Shipping weight: 30.1kg

Electrical/Optical Characteristics

D.C. Resistance: 9.38 ohm/100m max
DC Conductor Resistance Unbalance: 5% max
Skew: <45ns/100m



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 Performance (100m)

Frequency (MHz)	RL ≥ dB	ATT(20°C) ≥ 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
4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.00	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	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-00161	181750036	PowerCat 6 F/UTP PVC Cable Eca violet 500m reel

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Declaration of Performance**DoP No:****MLXCES-2017-C-009****Unique Identification code & description of the product type:****CAA-00161****181750036****F/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: 19-5-2017

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

English