

## Features and Benefits

Molex Premise Networks PowerCat 5e 4 Pair F/UTP cable has been designed to support high speed data transmission systems. This cable is part of the PowerCat System range of products that have been designed based on the PowerSum principle of crosstalk, measurement and test.

The cable is constructed of 4 pairs enclosed in laminated aluminium foil with a tin drain wire, encased in a PVC sheath. Molex recommend that the full range of PowerCat products is used in a system to maximise cabling performance, providing extended frequency response and enhanced bandwidth.

- Enhanced performance 4 pair PVC Cable
- Category 5E Compliant
- Overall foil shield and drain wire construction
- Colour coded pairs for ease of termination
- 305m easy spool box
- Reaction to Fire Euroclass: Eca

## Commercial Standards

EN 50173 2nd Edition, ISO/IEC 11801  
2nd Edition, EIA/TIA 568-C.2  
RoHS compliant

## Fire Propagation Tests

EU Regulation 305/2011 (CPR)  
EN 50575:2014+A:2016  
Euroclass: Eca  
DoP No: MLXCES-2017-C-007  
located on web  
<http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/>

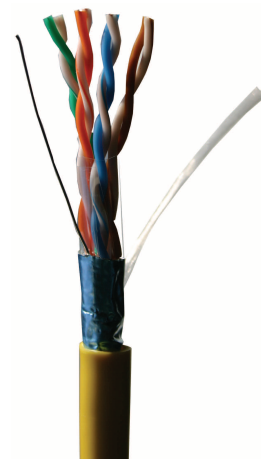
## Technical Information

### Mechanical Characteristics

Conductor size [mm]: 24 AWG  
(0.51mm)  
Cable shield: one-side laminated  
aluminium foil  
Outside cable diameter [mm]: ≤ 6.3 nom  
Temperature range [°C]  
during installation: -20° to +50 °C  
during operation: -20° to +60 °C  
Sheath: PVC  
Sheath colour: Yellow RAL (1018)  
Maximum Pulling force: 100N

### Electrical/Optical Characteristics

D.C. Resistance: 9.38 Ω/100m max  
Skew: 1-100MHz: <45ns/100m  
NVP: 69%  
Shipping weight [kg]: 14.5



## 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 Performance (100m)									
Frequency	RL	ATT(20°C)	NEXT	PHASE DELAY	Frequency	PSNEXT	ELFEXT	PSELFEXT	
(MHz)	≥ dB	≥ dB	≥ dB	≥ ns	(MHz)	≥ dB	≥ dB	≥ dB	
1	20.0	2.0	65.3	570.00	1	62.3	63.8	60.8	
4.0	23.0	4.1	56.3	552.00	4	53.3	51.8	48.8	
8.0	24.5	5.8	51.8	546.73	8	48.8	45.7	42.7	
10.0	25.0	6.5	50.3	545.38	10	47.3	43.8	40.8	
16.0	25.0	8.2	47.2	543.00	16	44.4	39.7	36.7	
20.00	25.0	9.3	45.8	542.05	20	42.8	37.8	34.8	
25.0	24.3	10.4	44.3	541.20	25	41.3	35.8	32.8	
31.25	23.6	11.7	42.9	540.44	31.25	39.9	33.9	30.9	
62.5	21.5	17.0	38.4	538.55	62.5	35.4	27.9	24.9	
100	20.1	22.0	35.3	537.60	100	32.3	23.8	20.8	

**ORDERING INFORMATION**

Order No.	SAP No.	Description
39A-504-FT	181710012	PowerCat 5E F/UTP PVC cable Eca yellow 305m box

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**Declaration of Performance****DoP No:****MLXCES-2017-C-007****Unique Identification code & description of the product type:****39A-504-FT****181710012****F/UTP C5E 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