

Features and Benefits

Molex Premise Networks PowerCat C5E 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 LS0H 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 LS0H 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-008
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: 6.3mm nom
Maximum Pulling force: 100N

Temperature range
during installation: -20 to +50°C
during operation: -20 to +60°C
Sheath: LS0H
Sheath colour: Violet RAL 4005

Shipping weight [kg]: 14.8

Electrical/Optical Characteristics

D.C. Resistance: 9.38 Ω/100m max
Skew: 1 - 100MHz: <45ns/100m
NVP: 69%



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	Frequency (MHz)	PSNEXT ≥ dB	ELFEXT ≥ dB	PSELFEXT ≥ 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-LS	181710013	PowerCat 5E F/UTP LS0H cable Eca violet 305m box

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**Declaration of Performance****DoP No:****MLXCES-2017-C-008****Unique Identification code & description of the product type:****39A-504-LS****181710013****F/UTP C5E LSZH****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: 17-5-2017

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

English