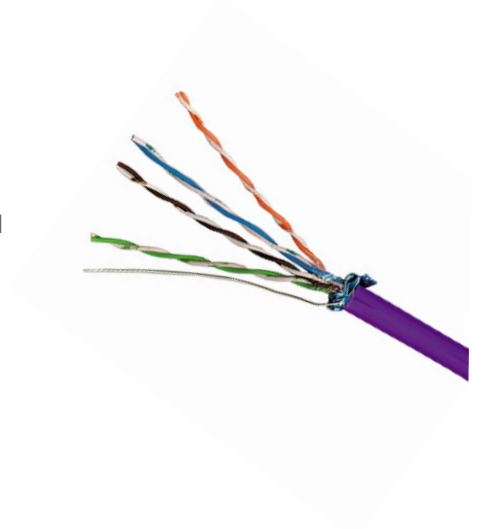


PowerCat C5e F/UTP Cable LSOH

Molex Connected Enterprise Solutions 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 aluminum foil with a tin drain wire, encased in a LSOH sheath. Molex recommend that the full range of PowerCat products is used in a system to maximize cabling performance, providing extended frequency response and enhanced bandwidth.



FEATURES AND ADVANTAGES

Enhanced performance 4 pair LSOH Cable

Category 5e Compliant

Overall foil shield and drain wire construction

Color coded pairs for ease of termination

305m easy spool box

Reaction to Fire Euroclass: Eca

SPECIFICATIONS

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
<https://www.molexces.com/about-us/dop-certificates/>

Technical Information

Mechanical Characteristics

Conductor size [mm]: 24 AWG (0.51mm)
Cable shield:
One-side laminated aluminum 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: LSOH
Sheath color: 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%

PoE

Our PowerCat 5e system is suitable for PoE applications as defined below:
IEEE 802.3bt from Type 1 to Type 4, and
CISCO UPoE+

Notes:

For new installations of PoE Type 3 / Class 5 and above that wish to be eligible for

the Molex 25 year Application Assurance Warranty, we require Category 6A cable to be used throughout.

To confirm your PoE / RP3 cabling design is eligible for the Molex 25 year Application Assurance Warranty, your design must be verified and validated with the Molex PoE Calculator. Read more
<https://www.molexces.com/poe-calculator>

Molex recommends that the PoE feature on an individual switch port are power disabled prior to unplugging the associated powered Device. Molex recommends that the full range of PowerCat 5e products be used in a system to maximize cabling and PoE performance. Details on Molex requirements for Warranty can be found at
<https://www.molexces.com/about-us/our-warranty/>

www.molexces.com/products/copper/cat5e/

PowerCat C5e F/UTP Cable LS0H

SPECIFICATIONS - CONTINUED

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

www.molex.com/products/copper/cat5e/

Molex is a registered trademark of Molex, LLC in the United States of America and may be registered in other countries; all other trademarks listed herein belong to their respective owners. This information is correct at the time of publication, specifications are subject to change.