Features and Benefits

Molex 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: Dca-s1,d2,a1

Commercial Standards

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

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
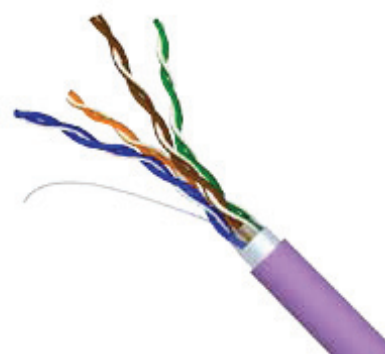Sheath: LS0H
Sheath colour: Violet RAL 4005

Shipping weight [kg]: 14.8

Fire Propogation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass: Dca-s1,d2,a1
DoP No: MLXCES-2018-C-029
located on web
http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/

Electrical/Optical Characteristics

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

Technical Performance (100m)

Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥Db	ELFEXT ≥dB	PSELFEXT ≥dB
1.00	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4.00	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8.00	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10.00	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16.00	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
25.00	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
62.50	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100.00	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 Dca-s1,d2,a1 violet 305m box

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