Features and Benefits

Molex PowerCat (C5E) 4 Pair U/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 testing.

We 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
- 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: 24 AWG Soft Plain Copper
Primary Insulation: Solid Polyethylene
Sheath: LS0H
Sheath Colour: Violet RAL 4005
Nominal O.D.: 5.0 +/-0.4mm
NVP: 69%
Operating temperature: -30°C - +60°C
Installation Temperature: -20˚C to +50˚C
Maximum Pulling Force: 100N

Fire Propogation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass: Dca-s1,d2,a1
DoP No: MLXCES-2018-C-028
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

Shipping Weight: 305m box: 10.2kg

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
39-504-5E	181700098	PowerCat 5E U/UTP LS0H cable Dca-s1,d2,a1 violet 305m box