PowerCat 5E F/UTP Cable PVC

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
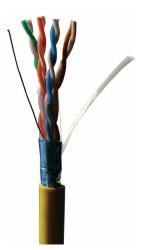
Fire Propogation Tests

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	**EMEA**	**APAC**
Tel: 630 969 4550	Tel: 44 (0)2392 205800	Tel: 61 3 9971 7111
www.molexces.com	www.molexces.co.uk	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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