FEATURES AND SPECIFICATIONS

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.

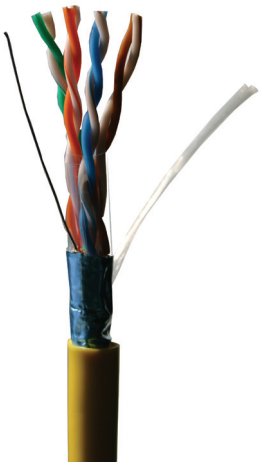
The cable is constructed of 4 pairs enclosed in laminated aluminium foil with a tin drain wire, encased in a PVC sheath.

Technical Information

Mechanical Characteristics

Conductor size [mm]: 24 AWG (0.51mm)
Insulated conductor diameter [mm]: ≤ 1.0
Single pair shield: none
Pair number: 4
Cable shield: one-side laminated aluminium foil
Outside cable diameter [mm]: ≤ 6.20
Temperature range [°C]
during installation: 0° to +50 °C
during operation: -20° to +60 °C
Acceptable bend radius
during installation: 8 x cable size
during operation: 4 x cable size
Sheath: FR-PVC (IEC -332.1)
Sheath colour: yellow
Maximum Pulling force 100N

Colour coding
Pair 1: white-blue/blue
Pair 2: white-orange/orange
Pair 3: white-green/green
Pair 4: white-brown/brown



Electrical/Optical Characteristics

Insertion Loss [1-100MHz]	≤1.967√f+0.023 (f)+0.050/√f	dB/100
Next [1-100MHz]	≥ 35.3-15·log(f/100)	dB
PS NEXT [1-100MHz]	≥ 32.3-15·log(f/100)	dB
ELEXT [1-100MHz]	≥ 23.8-20·log(f/100)	dB
PS ELFECT [1-100MHz]	≥ 20.8-20·log(f/100)	dB
RL [1≤f<10MHz]	20+5·log(f)	dB
RL [10≤f<20MHz]	25	dB
RL [20≤f≤100MHz]	25-7·log(f/20)	dB
Propagation delay [1-100MHz]	534·36/√f	ns/100m
Delay Skew [1-100MHz]	45	ns/100m

Shipping weight [kg]: 16.5

ORDERING INFORMATION

Order No.	SAP No.	Description
39A-504-FT	Consult Molex	PowerCat 5e Cable F/UTP PVC 305m - Yellow

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