

Features and Benefits

Molex Premise Networks 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 LSOH 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
Maximum Pulling force: 100N

Temperature range
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: purple

Colour coding

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

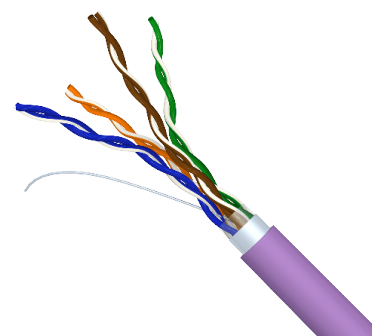
Shipping weight [kg]: 16.5

Electrical/Optical Characteristics

Resistance [W/km]: 98
Nominal propagation: value printed on
a cable

Transmission parameters:

Insertion Loss [1-100MHz]	$\leq 1.967\sqrt{f} + 0.023(f) + 0.050/\sqrt{f}$	dB/100
Next[1-100MHz]	$\geq 35.3 - 15 \cdot \log(f/100)$	dB
PS NEXT [1-100MHz]	$\geq 32.3 - 15 \cdot \log(f/100)$	dB
ELEXT [1-100MHz]	$\geq 23.8 - 20 \cdot \log(f/100)$	dB
PS ELFECT [1-100MHz]	$\geq 20.8 - 20 \cdot \log(f/100)$	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



ORDERING INFORMATION

Order No.	SAP No.	Description
39A-504-LS	Consult Molex	PowerCat 5E cable F/UTP LSOH Violet, 305m box

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