FEATURES AND SPECIFICATIONS



POWERCAT™ C5e F/UTP CABLE LS0H

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-

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: LS0H IEC 60332-1

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]	≤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

ORDERING INFORMATION

Order No.	SAP No.	Description
39A-504-LS	Consult Molex	PowerCat 5E cable F/UTP LS0H Violet, 305m box

MOLEX PREMISE NETWORKS

Americas Tel: 630 969 4550 www.molexpn.com **EMEA**Tel: 44 (0)2392 205800 www.molexpn.co.uk

APAC Tel: 61 3 9971 7111 www.molexpn.com.au