TECHNICAL SPECIFICATIONS



24 AWG (0.51mm)

≤ 1.0

none

none

≤ 5.50

 $0 \degree C$ to $+50 \degree C$

-20 °C to +60 °C

45

4

UTP LSZH Cable, PowerCat 5e 4-pair, 305m

Features summary

Category 5e compliant. The PowerCat 5e cable is a basic element of the PowerCat 5e line of products designed for high speed network applications (eg. Gigabit Ethernet 1000Base-T). 4 pair FTP with different pitch for each pair. Small outside diameter, high flexibility. Available in 305m lengths and packed in carton boxes for easy transportation and laying in troughs. The cable does not feed fire and goes out when the source of fire is removed. Recommended as a basic product for horizontal cabling.

		during installation:	8 x cable size	
Colour coding		during operation:	4 x cable size	
Pair 1:	white-blue/blue	Sheath:	LSZH (IEC -332.1)	
Pair 2:	white-orange/orange	Sheath colour:	purple	
Pair 3:	white-green/green	Shipping weight [kg]:	11.5	
Pair 4:	white-brown/brown			
		Transmission parameters:		
Electric parameters:		Insertion Loss [1-100MHz]	≤1.967√f+0.023 (f)+0.050/√	f dB/100
Resistance [Ω /km]:	98	Next[1-100MHz]	≥ 35.3-15·log(f/100)	dB
Nominal propagation:	value printed on a cable	PS NEXT [1-100MHz]	\geq 32.3-15·log(f/100)	dB
		ELEXT [1-100MHz]	\geq 23.8-20·log(f/100)	dB
		PS ELFECT [1-100MHz]	\geq 20.8-20·log(f/100)	dB
		RL [1≤f<10MHz]	$20+5 \cdot \log(f)$	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]

Mechanical parameters:

Outside cable diameter [mm]:

Temperature range [°C]

Acceptable bend radius

Insulated conductor diameter [mm]:

during installation:

during operation:

Conductor size [mm]:

Single pair shield:

Pair number:

Cable shield:

REFERENCE INFORMATIONS

Part number	Name	
39-504-5E	UTP LSZH Cable, PowerCat 5e 4-pair, 305m	

Molex Premise Networks Corporate Headquarters Tel. +1 603 324 0200 www.molexpn.com Western Europe Headquarters Tel + 44 (0) 1489 572111 www.molexpn.co.uk

MOLEX PREMISE NETWORKS Eastern Europe Headquarters Asia Headqua

Polska Tel. + 48 22 326 07 20 www.molexpn.com.pl Asia Headquarters Tel. + 852 2637 3111

www.molexpn.com.hk

....

South Pacific Headquarters Tel. + 61 3 9971 7111 www.molexpn.com.au

ns/100m

Molex Incorporated

Tel. +1 630 969 4550 www.molex.com

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