

# PowerCat™ 6A F/FTP Cable LS0H

**molex**

Molex PowerCat 6A F/FTP cable is specifically designed to support high-speed data network applications such as 10-Gigabit Ethernet (10G BASE-T). The cable is constructed of 4 screened pairs surrounded by an overall foil shield and a drain wire enclosed in a LS0H Dca-s2,d2,a1 sheath. This cable minimises alien crosstalk and provides superior electromagnetic interference (EMI) protection.

Molex recommends that the full range of PowerCat 6A shielded products are used in an installation to maximise system performance.

## Features and Advantages

Outstanding signal isolation

Alien Crosstalk minimisation

Colour coded for ease of termination

LS0H Dca-s2,d2,a1 sheath

500 metre reel

Compliant with current international standards



## Specifications

### COMMERCIAL STANDARDS

ANSI/TIA-568.2-D  
ISO/IEC 11801 A1.1

### FIRE PROPAGATION TESTS

EU Regulation 305/2011 (CPR)  
EN 50575:2014+A:2016  
EuroClass Dca-s2,d2,a1  
DoP No: MLXCES-2018-C-032

### APPLICATIONS

Category 6A F/FTP Cable is intended for high speed data applications up to 500MHz including:  
IEEE 802.3 10GBASE-T 10Gb/s  
IEEE 802.3 1000BASE-T 1Gb/s  
TIA/EIA-854 1000BASE-TX 1Gb/s  
ATM 155Mb/s 155Mb/s

REACH and RoHS compliant

### MECHANICAL

Basic Conductor: Solid, 23AWG, 0.56 mm, bare annealed copper  
Individual pair shield: Laminated aluminum foil (foil face outward) providing 100% coverage  
Overall shield: Polyester-aluminum tape (foil face inward) providing 100% coverage  
Drain Wire: Al/Mylar  
Outer Jacket: LS0H  
Velocity of Propagation: 78%  
Pulling Force: 110N max.  
Short Term Bend Radius: 8 x o.d. mm  
LongTerm Bend Radius: 4 x o.d. mm  
Storage and Operating Temperature: -20° to +75°C  
Outer diameter: 7.7 +/-0.05mm

### ELECTRICAL

Characteristic Impedance:  
1.0-250.0MHz 100±15  
250.0-500.0MHz 100±22  
DC Resistance ( $\Omega$ /100m) max 9.38  
Resistance unbalance: 5% max  
Voltage rating: 72 Vdc max  
Propagation Delay Skew:45 nS/100m max @ 1-500 MHz  
Weight: 25.5kg/500m reel

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## ELECTRICAL

Frequency MHz	RL	ATT	NEXT	Delay	PS NEXT	ELFEXT	PSELFEXT
	≥dB	≤dB	≥dB	≤ns	≥dB	≥dB	≥dB
1	20	-	74.3	570	72.3	67.8	64.8
4	23	3.8	65.3	552	63.3	55.8	52.8
8	24.5	5.3	60.8	547	58.8	49.7	46.7
10	25	5.9	59.3	545	57.3	47.8	44.8
16	25	7.5	56.2	543	54.2	43.7	40.7
20	25	8.4	54.8	542	52.8	41.8	38.8
25	24.3	9.4	53.3	541	51.3	39.8	36.8
31.25	23.6	10.5	51.9	540	49.9	37.9	34.9
62.5	21.5	15.0	47.4	539	45.4	31.9	28.9
100	20.1	19.1	44.3	538	42.3	27.8	24.8
200	18	27.6	39.8	537	37.8	21.8	18.8
250	17.3	31.1	38.3	536	36.3	19.8	16.8
300	16.8	34.3	37.1	536	35.1	18.3	15.3
400	15.9	40.1	35.3	536	33.3	15.8	12.8
500	15.2	45.3	33.8	536	31.8	13.8	10.8

## Ordering Information

Order No.	SAP No.	Description	Color
CAA-00373-VL	183020021	PowerCat C6A F/FTP C6A LS0H Dca-s2,d2,a1 Cable 500m	Violet

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