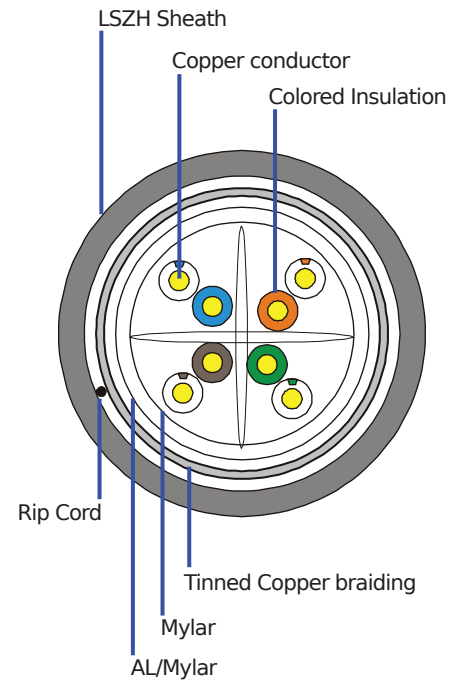


PowerCat 6 SF/UTP Cable LSZH/PVC 332.1 >

Molex PowerCat 6 SF/UTP 4 Pair cable has been designed to support high speed data transmission systems. The cable is part of the PowerCat 6 SF/UTP range of products that are designed to support a growing requirement for shielded cabling systems.

We recommend that the full range of PowerCat 6 SF/UTP products are used in a system to maximize cabling performance, providing extended frequency response and enhanced bandwidth.



FEATURES AND ADVANTAGES

Enhanced performance 4 pair shielded LSZH cable

Category 6 compliant, independently tested

Color coded for ease of termination

305 meter reel

60332.1 Fire performance

SPECIFICATIONS

Commercial Standards

ANSI/TIA-568-C.2.

ISO/IEC 11801 Ed. 2.0

UL 1581 VW1

EN0256-2-1

Flame Properties

Flammability Test – IEC 60332-1
(Testing only to LSZH sheathed cables)

Acid Gas Emission Test – IEC 60754-1
(Testing only to LSZH sheathed cables)

Smoke Density Test – ASTM 2843

Mechanical

Conductor Size: 23 AWG

Primary Insulation: High Density Polyethylene

Nominal O.D.: 1.12mm

Shield: Polyester covered Aluminum Foil
Tinned Copper Braiding with Min. 40% coverage

Sheath Type: LSZH/PVC (60332.1)

Sheath color: Violet

Nominal O.D.: 7.8mm +/-0.4mm

Operating Temperature: -20° to +70°

NVP: 69%

Bending radius: 8 x Cable dia at -20°C ± 1°C

Maximum Pulling Force: 11.5 Kg

Shipping Weight 305m reel: 22kg

Color code

Pair No Color

1-2	White-Orange Stripe and Orange
3-6	White-Green Stripe and Green
4-5	White-Blue Stripe and Blue
7-8	White-Brown Stripe and Brown

Electrical

D.C. Resistance: ≤9.38 ohm/100m

DC Resistance Unbalance: 5% max

Characteristic Impedance: 100 ± 15 Ω

Mutual Capacitance: < 5.6nF/100m

Capacitance Unbalance: 330pF/100m

Delay Skew: <45nS

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PowerCat 6 SF/UTP Cable LSZH/PVC 332.1 >

SPECIFICATIONS

Electrical continued

Loop resistance @20 deg DC:

≤190 Ω/km

Insulation resistance (500V):

≥2000 MΩ/km

Transfer impedance at:

1 MHz, 10 MHz, 30 MHz

Type2 ≤50 mΩ/m, ≤100 mΩ/m, ≤200 mΩ/m

Voltage test conductor/conductor and conductor/screen: 1000 Vdc @ 1 mn

Oxygen Index: Min 29% as per ASTM D 2863

UV Resistance: AN1≤500W/m² (IEC 60364-5-51)

Temperature Index on Sheath:

Min 235°C as per ASTM D 2863

Technical Performance (100m):

Freq (MHz)	RL ≥dB	ATT (20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PS-NEXT ≥dB	ACR dB	PS ACR dB	ELF-EXT dB	PSELFEXT dB
1	20.0	2.0	74.3	570.00	72.3	72.3	70.3	67.8	64.8
4.0	23.0	3.8	65.3	552.00	63.3	61.5	59.5	55.8	52.8
8.0	24.5	5.3	60.8	546.73	58.8	55.5	53.5	49.7	46.7
10.0	25.0	6.0	59.3	545.38	57.3	53.3	51.3	47.8	44.8
16.0	25.0	7.6	56.2	543.00	54.2	48.6	46.6	43.7	40.7
20.0	25.0	8.5	54.8	542.05	52.8	46.3	44.3	41.8	38.8
25.0	24.3	9.5	53.3	541.20	41.3	43.8	41.8	39.8	36.8
31.25	23.6	10.7	51.9	540.44	49.9	41.2	39.2	37.9	34.9
62.5	21.5	15.4	47.7	538.55	45.4	32.0	30.0	31.9	28.9
100	20.1	19.8	44.3	537.60	42.3	24.5	22.5	27.8	24.8
200	18.0	29.0	39.8	536.54	37.8	10.8	8.8	21.8	18.8
250	17.3	32.8	38.3	536.27	36.3	5.5	3.5	19.8	16.8

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00399-VL	0181750033	Cable C6 SF/UTP LSZH 332.1, 305m reel - Violet
CAA-00400-VL	0181750034	Cable C6 SF/UTP PVC 332.1, 305m reel - Violet

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