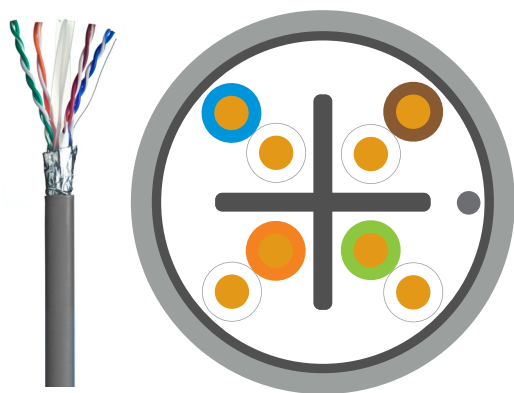


Leviton Cat 6A F/UTP Cable, LSZH

APPLICATION

Leviton Category 6A F/UTP cables exceed Category 6A performance standards. They are rated to 500 MHz and are suitable for use in all Class E_A structured wiring cable systems. The applications supported include 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet, and broadband video transmissions at frequencies up to 500 MHz.



COUNTRY OF ORIGIN

Taiwan

WARRANTY INFORMATION

For Leviton product warranties, go to [Leviton.com/ns/warranty](https://www.leviton.com/ns/warranty)

FEATURES & BENEFITS

- 23 AWG solid annealed copper wire
- 4 twisted pairs individually shielded and cabled together providing EMI immunity
- Overall braided shield for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Available in a range of HFFR-LS (Halogen Free Flame Retardant – Low Smoke) jacket materials to suit a variety of installation environments and color coded for identification
- CE marked for CPR

CONSTRUCTION

23 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit under a flame-retardant jacket. Mylar[®] tape is used as buffer layer and is laminated with aluminum foil as a shield, with foil facing inward. A drain wire (26 AWG) is placed between Mylar tape and aluminum foil laminated Mylar tape.

STANDARDS & REGULATIONS

- ISO/IEC 11801 Class EA, IEC 61156-5
- EN 50173-1 and EN 50288-10-1
- ANSI/TIA 568.2-D
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT[™] PoH (95 watts max)
- Supports 10GBASE-T
- Meets the design requirements of 802.11ac wireless
- Will exceed IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously

FTPAZ-MLS, FTPAZ-MSS

PRODUCT SPECIFICATIONS
FTPAZ-MLS, FTPAZ-MSS

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)	
DC resistance	Max. 8.2 Ω/100 m at +20 °C
Resistance unbalance	Max. 2% at 20° C
Insulation resistance (500V)	Min. 5000 MΩ/Km at +20 °C
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Capacitance unbalance (pair to ground)	Max. 160 pf/100 m at 1 kHz
Characteristic impedance (1 - 100 MHz)	(100 ± 15) Ω
Nominal velocity of propagation	67%
Test voltage (DC, 1 min.)	1 kV/1 min.
Delay Skew	45 ns/100 m

CHARACTERISTICS

Dimensional Characteristics	
Length per reel	1000 ft (305 m)
Number of pairs	4
Usage Characteristics	
Category	Cat 6A
Segregation Class	Class D
Temp. (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Installation):	0 °C to +50 °C (+32 °F to +122 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+60 °C (+140 °F)

FLAME RATING

Material identifier	LSZH
Material description	Standard HFFR-LS
Flame rating	IEC 60332-1, IEC 60332-1, IEC 60754-1, IEC 60754-1

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	1000BASE-T (1 Gb/s), 100BASE-TX (100 Mb/s), 10BASE-T (10 Mb/s)
IEEE 802.3	PoE Types 1, 2, 3, and 4

TECHNICAL DATA - PHYSICAL

Conductor	23 AWG bare copper	
Max conductor diameter - in. (mm)	0.0221	(0.561)
Nom. cable diameter - in. (mm)	0.291	(7.4)
Nom. cable weight - lb./kft (kg/km)	38.8	57.8
Max. installation tension - lb. (N)	25	100
Min. bend radius - in. (mm)	1.16	(29.6)

COLOR CODE

Pair 1	Blue	White
Pair 2	Orange	White
Pair 3	Green	White
Pair 4	Brown	White

PRODUCT SPECIFICATIONS
FTPAZ-MLS, FTPAZ-MSS



FTPAZ-MLS, FTPAZ-MSS

PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	NEXT (dB)	PS-NEXT (dB)	ACRF (dB)	PSACRF (dB/)	RL (dB)	IL (dB)	Prop. Delay (ns/100m)
MHz	Standard	Standard	Standard	Standard	Standard	Standard	Standard
1	74.3	72.3	67.8	64.8	20	2.1	570
4	65.3	63.3	55.8	52.8	23	3.8	552
10	59.3	57.3	47.8	44.8	25	5.9	545
16	56.2	54.2	43.7	40.7	25	7.5	543
20	54.8	52.8	41.8	38.8	25	8.4	542
31.25	51.9	49.9	37.9	34.9	23.6	10.5	540
62.5	47.4	45.4	31.9	28.9	21.5	15	539
100	44.3	42.3	27.8	24.8	20.1	19.1	538
250	38.3	36.3	19.8	16.8	17.3	31.1	536
300	37.1	35.1	18.3	15.3	16.8	34.3	536
500	33.8	31.8	13.8	10.8	15.2	45.3	536

*The standard values shown are the most demanding taken from the relevant IEC, TIA, and EN specifications. These standard values are the maximum permissible for insertion loss and the minimum permissible for other parameters

PART NUMBER

Description	Part No.
Cat 6A F/UTP Cable, LSZH, blue, 305-meter spool	100-FTPAZ-MLS
Cat 6A F/UTP Cable, LSZH, gray, 305-meter spool	101-FTPAZ-MSS

PRINT LEGEND:

LEVITON CAT 6A LAN CABLE LSZH 23 AWG 4 PR 60C F/UTP FTPAZ-MXS XXXXV (date code) XXXXXXXXXXX (batch code) ETL
 VERIFIED TO ANSI/TIA 568.2-D 305 METERS NVP: 67.0 COUNTRY OF ORIGIN: TAIWAN

For further support information, visit Leviton.com/ns/support