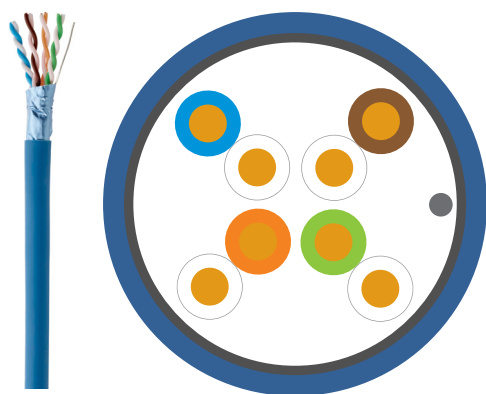


FDT Cat 6A F/UTP CMP Cables

APPLICATION

FDT Cat 6A cable features a reduced diameter of 0.235" (5.97 mm) vs. 0.270" (6.86 mm) average shielded Cat 6A cable, creating better flexibility, optimized cable management, and improved tray-fill ratio for high-density installations. It offers excellent signal isolation, with Power over Ethernet (PoE) and alien crosstalk (AXT) performance that exceeds standards, making it an excellent choice for 802.11ac wireless, HD video, and IP security. The electrical performance is independently verified by ETL (Intertek) as part of the Leviton Verified Performance program.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- Reduced diameter of 0.235" (5.97 mm)
- Elimination of cable cross-filler increases speed of installation and reduces jobsite waste for a more sustainable future
- Improves Return on Infrastructure Investment by allowing for smaller pathways and spaces compared to other 6A shielded cables
- Third Party Verified 20 dB of Guaranteed PSANEXT and PSAACRF margin to Cat 6A requirements through the Leviton Verified Performance program provides robust network performance for multigigabit Ethernet applications
- Limited Power (LP) rating of 0.7 A provides worry-free PoE performance
- Industry's smallest diameter Cat 6A F/UTP cable allows for networks to be upgraded to 10G performance using existing pathways
- Improved flexibility and reduced bend radius enables ease of installation
- Precision Twist Technology provides enhanced transmission performance
- Tested by the Leviton Systems Verification Lab for data security for added peace of mind
- Made with Leviton FLX-1 technology for maximum flexibility, tighter bend radius and smoother pulls
- Smaller size and lower weight per reel means less greenhouse gases emitted during transportation and less warehouse space required for storage

CONSTRUCTION

- Bare copper wire insulated with thermoplastic
- Two primaries are twisted together to form a pair and four such pairs are cabled together to form the basic unit
- FDT cable core is surrounded by a polyester wrap, foil shield, and jacketed with flame-retardant polymer alloy with a drain wire

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Category 6A
- RoHS Compliant

FIRE RATING

- Plenum - NFPA 70
- CMP - Plenum Rated
- UL Listed as CMP - LP (0.7A)

PRODUCT SPECIFICATIONS

FDT Cat 6A F/UTP CMP Cables

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)

DC resistance	Max. 9.38 Ω/100 m at 20 °C
DC resistance unbalance	Max. 4%
Mutual capacitance	Nom. 5.1 nf/100 m at 1 kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1 kHz
Delay Skew	45 ns/100 m max.
Nominal velocity of propagation	68%

CHARACTERISTICS

Dimensional Characteristics

Length per reel	1000 ft (305 m)
Number of pairs	4

Usage Characteristics

Category	Cat 6A
Fire Safety	CMP - Plenum Rated
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+105 °C (+221 °F)

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	10GBASE-T (10 Gb/s), 2.5/5GBASE-T (2.5/5 Gb/s), 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	
Conductor Diameter - in. (mm)	0.022	(0.56)
Insulated Conductor Diameter - in. (mm)	0.043	(1.09)
Drain Wire	26 AWG	
Nom. Cable Diameter - in. (mm)	0.235	(5.97)
Nom. Cable Weight - lb./kft (kg/km)	32	(47.62)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	0.94	(23.88)

COLOR CODE

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

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	IL (dB)		RL (dB)		NEXT (dB)		PSNEXT (dB)		ACR (dB)*		PSACR (dB)†	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
MHz												
1	2.1	2.1	20.0	20.0	74.3	74.3	72.3	72.3	72.2	72.2	70.2	70.2
4	3.8	3.8	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5
10	5.9	5.9	25.0	25.0	59.3	59.3	57.3	57.3	53.4	53.4	51.4	51.4
16	7.5	7.5	25.0	25.0	56.2	56.2	54.2	54.2	48.8	48.8	46.8	46.8
20	8.4	8.4	25.0	25.0	54.8	54.8	52.8	52.8	46.4	46.4	44.4	44.4
31.25	10.5	10.5	23.6	23.6	51.9	51.9	49.9	49.9	41.4	41.4	39.4	39.4
62.5	15.0	15.0	21.5	21.5	47.4	47.4	45.4	45.4	32.4	32.4	30.4	30.4
100	19.1	19.1	20.1	20.1	44.3	44.3	42.3	42.3	25.2	25.2	23.2	23.2
250	31.1	31.1	17.3	17.3	38.3	38.3	36.3	36.3	7.3	7.3	5.3	5.3
350	37.2	37.2	16.3	16.3	36.1	36.1	34.1	34.1	-1.1	-1.1	-3.1	-3.1
400	40.1	40.1	15.9	15.9	35.3	35.3	33.3	33.3	-4.8	-4.8	-6.8	-6.8
500	45.3	45.3	15.2	15.2	33.8	33.8	31.8	31.8	-11.4	-11.4	-13.4	-13.4
600**	—	50.1	—	14.7	—	32.6	—	30.6	—	-17.4	—	-19.4
750**	—	56.7	—	14.0	—	31.2	—	29.2	—	-25.5	—	-27.5

*Values for ACR are provided as calculations. **Values above 500 MHz are for information only.

† TIA values provided for calculations only. PSACR is only guaranteed up to 300 MHz for FDT CMP.

PRODUCT SPECIFICATIONS
FDT Cat 6A F/UTP CMP Cables



FDT Cat 6A F/UTP CMP Cables

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED												
Freq.	ACRF (dB)		PSACRF (dB)		LCL/TCL (dB)		EL/TCTL (dB)		PSANEXT (dB)		PSAACRF (dB)	
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
MHz												
1	67.8	67.8	64.8	64.8	40.0	40.0	35.0	35.0	67.0	87.0	67.0	87.0
4	55.8	55.8	52.8	52.8	40.0	40.0	23.0	23.0	67.0	87.0	66.2	86.2
10	47.8	47.8	44.8	44.8	40.0	40.0	15.0	15.0	67.0	87.0	58.2	78.2
16	43.7	43.7	40.7	40.7	38.0	38.0	10.9	10.9	67.0	87.0	54.1	74.1
20	41.8	41.8	38.8	38.8	37.0	37.0	9.0	9.0	67.0	87.0	52.2	72.2
31.25	37.9	37.9	34.9	34.9	35.1	35.1	—	—	67.0	87.0	48.3	68.3
62.5	31.9	31.9	28.9	28.9	32.0	32.0	—	—	65.6	85.6	42.3	62.3
100	27.8	27.8	24.8	24.8	30.0	30.0	—	—	62.5	82.5	38.2	58.2
250	19.8	19.8	16.8	16.8	26.0	26.0	—	—	56.5	76.5	30.2	50.2
350	16.9	16.9	13.9	13.9	24.6	24.6	—	—	54.3	74.3	27.3	47.3
400	15.8	15.8	12.8	12.8	24.0	24.0	—	—	53.5	73.5	26.2	46.2
500	13.8	13.8	10.8	10.8	23.0	23.0	—	—	52.0	72.0	24.2	44.2
600**	—	12.2	—	9.2	—	22.2	—	—	—	70.8	—	42.6
750**	—	10.3	—	7.3	—	21.2	—	—	—	69.4	—	40.7

*Values for ACR are provided as calculations. **Values above 500 MHz are for information only.
† TIA values provided for calculations only. PSACR is only guaranteed up to 300 MHz for FDT CMP.

PRINT LEGEND:
LEVITON FDT F/UTP 23 AWG CMP 105C C(ETL)US CMP-LP (0.7A) --- FT6, ETL VERIFIED TIA-568.2-D CAT 6A [DATE] [COUNTER] [UID]

PART NUMBERS					
Description	Color	Packaging	Length (Ft.)	Field Application	Part No.
FDT Cat 6A F/UTP CMP Cable	Blue	Reel	1000	Indoor	11143338
FDT Cat 6A F/UTP CMP Cable	White	Reel	1000	Indoor	11143337
FDT Cat 6A F/UTP CMP Cable	Dark gray	Reel	1000	Indoor	11143339
FDT Cat 6A F/UTP CMP Cable	Red	Reel	1000	Indoor	11144171
FDT Cat 6A F/UTP CMP Cable	Black	Reel	1000	Indoor	11144176
FDT Cat 6A F/UTP CMP Cable	Violet	Reel	1000	Indoor	11144172
FDT Cat 6A F/UTP CMP Cable	Green	Reel	1000	Indoor	11144173
FDT Cat 6A F/UTP CMP Cable	Yellow	Reel	1000	Indoor	11144174

For further support information, visit [Leviton.com/ns/support](https://leviton.com/ns/support)