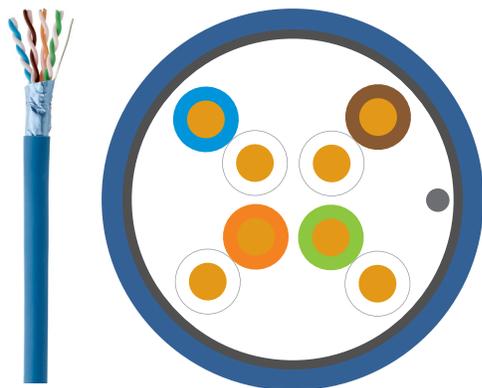


## FDT Cat 6A F/UTP CMP Cables

### 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](https://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



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. MHz | 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 |
| 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 |
| 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. PSACRF 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](http://Leviton.com/ns/support)

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