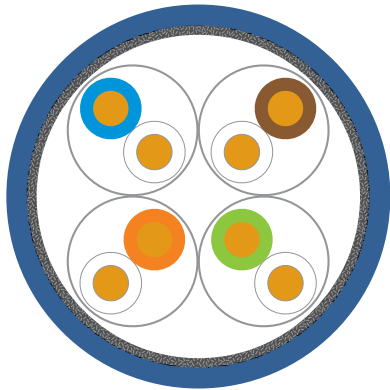


## AC6SF Cat 6A S/FTP EuroClass Dca Cables

### APPLICATION

Leviton Cat 6A S/FTP cables exceed Category 6A performance standards. They are rated to 500 MHz and are suitable for use in all Class E<sub>A</sub> structured 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

UK

### 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 screened and cabled together – providing excellent EMI immunity
- Overall braided screen – for improved shielding efficiency, increased mechanical robustness, and heat dissipation
- Designed to support all Class E<sub>A</sub> protocols including 10GBASE-T
- Halogen Free Flame Retardant – Low Smoke (HFFR-LS)
- Enhanced HFFR-LS material meets the requirements of the Construction Products Regulation (CPR) EuroClass Dca
- CE marked for CPR
- Blue jacket to identify EuroClass level Dca
- Available in a range of non-standard colors

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E<sub>A</sub>
- IEC 61156-5
- EN 50173-1 and EN 50288-10-1
- ANSI/TIA 568.2-D
- 10GBASE-T
- 802.11ac wireless
- IEEE 802.3 PoE Type 1, 2, 3, 4 (90 watts max)
- Exceeds IEEE 802.3bt standard up to 0.5 amps per conductor (100 watts) continuously
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT™ PoH (95 watts max)

**PRODUCT SPECIFICATIONS**  
**AC6SF Cat 6A S/FTP EuroClass Dca Cables**

**TECHNICAL SPECIFICATIONS**

**Primary Electrical Parameters**

|                                |                |          |
|--------------------------------|----------------|----------|
| Conductor loop resistance      | Max 19 Ω/100m  | 14Ω/100m |
| Conductor resistance unbalance | Max. 2%        | 0.1%     |
| Insulation resistance          | >5GΩ.km        | >50GΩ.km |
| Dielectric strength            | 2500 Vdc/2secs | Pass     |

**Secondary Electrical Parameters**

|                               |                           |                       |
|-------------------------------|---------------------------|-----------------------|
| Velocity of propagation       | <534nsec/100m @ 100MHz    | 413nsec/100m @ 100MHz |
| Delay skew                    | Max. 45nsec/100m @ 100MHz | 4nsec/100m @ 100MHz   |
| Mean Characteristic Impedance | 100Ω +/- 5Ω @ 100MHz      | 100Ω ± 3Ω @ 100MHz    |
| Coupling Attenuation          | Type 1                    | 90dB                  |
| Transfer Impedance            | Grade 1                   | 8mΩ/m @ 10MHz         |

**MECHANICAL SPECIFICATIONS**

**Usage Characteristics**

|                      |                                     |
|----------------------|-------------------------------------|
| Category             | Cat 6A                              |
| Type of cable        | S/FTP                               |
| Temp. (Installation) | 0 °C to +50 °C (32 °F to +122 °F)   |
| Temp. (Operating)    | -20 °C to +75 °C (-4 °F to +167 °F) |

**TECHNICAL DATA - PHYSICAL**

|                                  |                    |
|----------------------------------|--------------------|
| Max. tensile load (Installation) | 10 kg              |
| Segregation class                | Class D            |
| Min. bend radius (Installation)  | 8 x Outer Diameter |
| Min. bend radius (Operation)     | 4 x Outer Diameter |
| Field test NVP value             | 0.80               |

**REACTION TO FIRE**

| Characteristic             | IEC Standard  | EN Standard          | CPR Rating   |
|----------------------------|---------------|----------------------|--------------|
| Classification / EuroClass | —             | EN 13501-6           | Dca s1 d1 a1 |
| Single Cable Flame Rating  | IEC 60332-1-2 | —                    | —            |
| Smoke Production           | —             | EN 50399 & EN61034-2 | s1           |
| Flaming Droplets/Particles | —             | EN 50399             | d1           |
| Acid Gas Emission/Acidity  | —             | EN 50267-2-3         | a1           |

**PRODUCT SPECIFICATIONS**  
**AC6SF Cat 6A S/FTP EuroClass Dca Cables**



AC6SF Cat 6A S/FTP EuroClass Dca Cables

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS**

| Freq.<br>MHz | IL (dB)  |         | NEXT (dB) |         | PSNEXT (dB) |         | ACRF (dB) |         | PSACRF (dB) |         |
|--------------|----------|---------|-----------|---------|-------------|---------|-----------|---------|-------------|---------|
|              | Standard | Typical | Standard  | Typical | Standard    | Typical | Standard  | Typical | Standard    | Typical |
| 1            | 2.0      | 1.9     | 75.3      | 100.0   | 72.3        | 97.0    | 67.5      | 103.9   | 64.5        | 87.0    |
| 4            | 3.8      | 3.5     | 66.3      | 100.0   | 63.3        | 97.0    | 56.0      | 103.9   | 53.0        | 87.0    |
| 10           | 5.9      | 5.5     | 60.3      | 100.0   | 57.3        | 97.0    | 48.0      | 102.8   | 45.0        | 87.0    |
| 20           | 8.4      | 7.8     | 55.8      | 100.0   | 52.8        | 97.0    | 42.0      | 101.8   | 39.0        | 81.8    |
| 100          | 19.1     | 18.0    | 45.3      | 100.0   | 42.3        | 97.0    | 28.0      | 89.4    | 25.0        | 67.8    |
| 200          | 27.6     | 25.7    | 40.8      | 100.0   | 37.8        | 96.1    | 22.0      | 78.2    | 19.0        | 61.8    |
| 250          | 31.1     | 28.7    | 39.3      | 100.0   | 36.3        | 95.7    | 20.0      | 74.6    | 17.0        | 59.8    |
| 500          | 45.3     | 41.1    | 34.8      | 100.0   | 31.8        | 92.5    | 14.0      | 65.2    | 11.0        | 53.8    |
| 550          | —        | 43.1    | —         | 98.2    | —           | 88.9    | —         | 62.5    | —           | 53.0    |

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED**

| Freq.<br>MHz | RL (dB)  |         | PSANEXT (dB) |         | PSAACRF (dB) |         |
|--------------|----------|---------|--------------|---------|--------------|---------|
|              | Standard | Typical | Standard     | Typical | Standard     | Typical |
| 1            | 20.0     | 27.0    | 67.0         | 100.0   | 67.0         | 98.1    |
| 4            | 23.0     | 33.1    | 67.0         | 100.0   | 66.2         | 96.5    |
| 10           | 25.0     | 34.0    | 67.0         | 100.0   | 58.2         | 94.5    |
| 20           | 25.0     | 34.3    | 67.0         | 100.0   | 52.2         | 92.2    |
| 100          | 20.1     | 39.3    | 62.5         | 100.0   | 38.2         | 82.0    |
| 200          | 18.0     | 38.4    | 58.0         | 100.0   | 32.2         | 73.9    |
| 250          | 17.3     | 34.4    | 56.5         | 100.0   | 30.2         | 70.6    |
| 500          | 17.3     | 28.7    | 52.0         | 100.0   | 24.2         | 57.0    |
| 550          | —        | 27.8    | —            | 100.0   | —            | 54.6    |

Note: 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                       | Color | Length (m) | Nom. Cable Diameter (mm) | Nom. Cable Weight (kg/km) | Packaging |                                    |                        |                  | Part No.            |
|-----------------------------------|-------|------------|--------------------------|---------------------------|-----------|------------------------------------|------------------------|------------------|---------------------|
|                                   |       |            |                          |                           | Type      | Reel Size Flange Dia. x Width (mm) | Gross Weight (kg/Item) | Items Per Pallet |                     |
| Cat 6A S/FTP Cable, EuroClass Dca | Blue† | 500        | 7.0                      | 49.5                      | Reel      | 400 x 390                          | 27.2                   | 12               | AC6S/FTP-Dca-500BU  |
| Cat 6A S/FTP Cable, EuroClass Dca | Blue† | 1000       | 7.0                      | 49.5                      | Reel      | 600 x 405                          | 56.0                   | 4                | AC6S/FTP-Dca-1000BU |

† Also available in a range of non-standard colors

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

**USA**  
 Network Solutions Headquarters  
 +1 (800) 722 2082  
[infoUSA@leviton.com](mailto:infoUSA@leviton.com)  
 Leviton Cable (formerly Berk-Tek)  
 +1 (800) 237 5835 | [infoUSA@leviton.com](mailto:infoUSA@leviton.com)

**Asia Pacific**  
 +852 3620 2602  
[infoAPAC@leviton.com](mailto:infoAPAC@leviton.com)

**Canada**  
 +1 (800) 461 2002  
[infoCanada@leviton.com](mailto:infoCanada@leviton.com)

**Europe**  
 +44 (0) 1592 772124  
[infoEurope@leviton.com](mailto:infoEurope@leviton.com)

**Latin America**  
 MX: +52 (55) 2128 6286  
 LATAM: +52 (55) 2333 5963  
[infoLATAM@leviton.com](mailto:infoLATAM@leviton.com)

**Middle East & Africa**  
 +971 (4) 247 9800  
[infoMEA@leviton.com](mailto:infoMEA@leviton.com)

NETWORK SOLUTIONS PRODUCTS ARE AVAILABLE WORLDWIDE IN OVER 100 COUNTRIES. VISIT US ONLINE AT [LEVITON.COM/NS](http://LEVITON.COM/NS) TO LEARN MORE.