

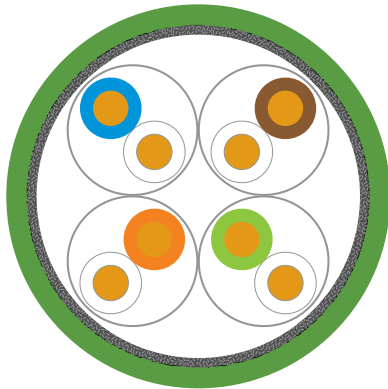
## PRODUCT SPECIFICATIONS

### AC7SF Cat 7A 7A S/FTP Euroclass Cca Cables

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### APPLICATION

Leviton AC7SF Cat 7A S/FTP cables exceed Category 7A performance standards. They are specified to 1000MHz, rated to 1200MHz, and are suitable for use in all Class F<sub>A</sub> structured wiring cable systems. The applications supported include 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet (PoE), and broadband video transmissions at frequencies up to 1000MHz.



### FEATURES & BENEFITS

- 22 AWG solid annealed copper wire
- 4 twisted pairs individually screened and cabled together providing EMI immunity
- Overall braided screen for improved shielding efficiency, increased mechanical robustness and heat dissipation
- Green HFFR-LS material enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass Cca
- Designed and manufactured in a carbon neutral facility in the UK
- Delivered in 100% recyclable packaging

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class F<sub>A</sub>, IEC 61156-5
- EN50173-1 and EN 50288-9-1
- 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)

### COUNTRY OF ORIGIN

UK

### WARRANTY INFORMATION

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

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#### TECHNICAL SPECIFICATIONS

##### Primary Electrical Properties (20 °C)

| CHARACTERISTIC                 | SPECIFICATION  | TYPICAL PERFORMANCE |
|--------------------------------|----------------|---------------------|
| Conductor Loop Resistance      | Max 19 Ω/100m  | 12Ω/100m            |
| Conductor Resistance Unbalance | Max 2%         | 0.1%                |
| Insulation Resistance          | >5GΩ.km        | >50GΩ.km            |
| Dielectric Strength            | 2500 Vdc/2secs | Pass                |

#### CHARACTERISTICS

##### Installation Characteristics

|                                |                    |
|--------------------------------|--------------------|
| Min Bend Radius (Installation) | 8 x Outer Diameter |
| Min Bend Radius (Operation)    | 4 x Outer Diameter |
| Field Test NVP Value           | 0.80               |
| Temp. (Installation)           | 0 °C to +50 °C     |
| Temp. (Operating)              | -20 °C to +75 °C   |
| Segregation Class              | Class D            |

#### TECHNICAL SPECIFICATIONS

##### Secondary Electrical Properties (20 °C)

| CHARACTERISTIC                    | SPECIFICATION            | TYPICAL PERFORMANCE   |
|-----------------------------------|--------------------------|-----------------------|
| Velocity of Propagation           | <534nsec/100m @ 100MHz   | 413nsec/100m @ 100MHz |
| Delay Skew                        | Max 25nsec/100m @ 100MHz | 4nsec/100m @ 100MHz   |
| Characteristic Impedance (Fitted) | 100Ω +/- 5Ω @ 100MHz     | 100Ω ± 3Ω @ 100 MHz   |
| Coupling Attenuation              | Type 1                   | 90dB                  |
| Transfer Impedance                | Grade 1                  | 7mΩ/m @ 10MHz         |

#### REACTION TO FIRE

| Characteristics            | IEC Standard   | EN Standard   | CPR Rating    |
|----------------------------|----------------|---------------|---------------|
| Single Cable Flame Rating  | IEC 60332-3-24 | EN 60332-3-24 | Pass          |
| Classification / Euroclass | —              | EN 13501-6    | Cca s1a d1 a1 |

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| TYPICAL PERFORMANCE TRANSMISSION CHARACTERISTICS |          |         |          |         |           |         |             |         |
|--|----------|---------|----------|---------|-----------|---------|-------------|---------|
| Freq.  | IL (dB)  |         | RL (dB)  |         | NEXT (dB) |         | PSNEXT (dB) |         |
| MHz  | Standard | Typical | Standard | Typical | Standard  | Typical | Standard    | Typical |
| 1  | 2.0      | 1.9     | 20.0     | 30.0    | 78.0      | 100.0   | 75.0        | 90.0    |
| 4  | 3.7      | 3.4     | 23.0     | 33.0    | 78.0      | 100.0   | 75.0        | 90.0    |
| 10   | 5.8      | 5.3     | 25.0     | 36.0    | 78.0      | 100.0   | 75.0        | 90.0    |
| 100  | 18.5     | 16.7    | 20.1     | 35.1    | 75.4      | 100.0   | 72.4        | 90.0    |
| 250  | 29.7     | 26.9    | 17.3     | 32.3    | 69.4      | 97.2    | 66.4        | 88.0    |
| 500  | 42.8     | 38.7    | 17.3     | 31.3    | 64.9      | 91.8    | 61.9        | 83.5    |
| 600  | 47.1     | 42.7    | 17.3     | 30.5    | 63.7      | 90.4    | 60.7        | 82.3    |
| 1000   | 61.9     | 56.2    | 15.1     | 28.3    | 60.4      | 86.4    | 57.4        | 79.0    |
| 1200   | —        | 62.1    | —        | 27.5    | —         | 85.0    | —           | 77.8    |

| TYPICAL PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED |           |         |             |         |              |         |              |         |
|---|-----------|---------|-------------|---------|--------------|---------|--------------|---------|
| Freq.   | ACRF (dB) |         | PSACRF (dB) |         | PSANEXT (dB) |         | PSAACRF (dB) |         |
| MHz   | Standard  | Typical | Standard    | Typical | Standard     | Typical | Standard     | Typical |
| 1   | 78.0      | 100.0   | 75.0        | 90.0    | 67.0         | 98.1    | 67.0         | 88.1    |
| 4   | 78.0      | 99.0    | 75.0        | 90.0    | 67.0         | 96.6    | 67.0         | 86.6    |
| 10  | 78.0      | 91.0    | 75.0        | 84.5    | 67.0         | 94.7    | 67.0         | 84.7    |
| 100   | 65.3      | 71.0    | 62.3        | 64.5    | 67.0         | 83.3    | 53.2         | 73.3    |
| 250   | 57.3      | 63.0    | 54.3        | 56.5    | 67.0         | 70.4    | 45.2         | 61.2    |
| 500   | 51.3      | 57.0    | 48.3        | 50.5    | 67.0         | 53.1    | 39.2         | 44.8    |
| 600   | 49.7      | 55.4    | 46.7        | 48.9    | 65.8         | 47.7    | 37.6         | 39.6    |
| 1000  | 45.3      | 51.0    | 42.3        | 44.5    | 62.5         | 30.2    | 33.2         | 22.8    |
| 1200  | —         | 49.4    | —           | 42.9    | —            | 22.8    | —            | 15.7    |

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) | Nominal Cable Diameter (mm) | Nominal Cable Weight (kg/km) | Packaging |                                    |                        |                  | Part No.         |
|   |        |            |                             |                              | Type      | Reel Size Flange Dia. x Width (mm) | Gross Weight (kg/Item) | Items Per Pallet |                  |
| AC7SF Cat 7A S/FTP Cable, Euroclass Cca | Green† | 500        | 7.2                         | 61.5                         | Reel      | 400 x 390                          | 33.2                   | 12               | UM12-Cca-500GN   |
| AC7SF Cat 7A S/FTP Cable, Euroclass Cca | Green† | 1000       | 7.2                         | 61.5                         | Reel      | 600 x 405                          | 68.0                   | 4                | UM12-Cca-1000GN† |

† Also available in a range of non-standard colors

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