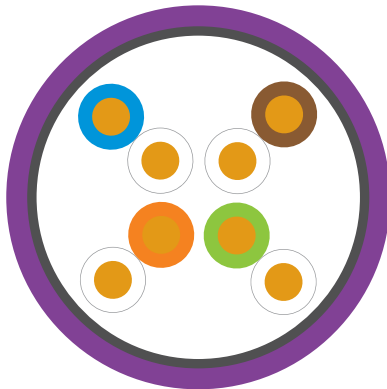


## RDT Cat 6A U/UTP Euroclass Eca Cables

### APPLICATION

Leviton RDT cables feature a reduced diameter creating better flexibility, optimized cable management, and improved tray-fill ratio for high-density installations. They exceed Cat 6A performance standards, are rated to 500 MHz, and are suitable for use in all Class E<sub>A</sub> structured cabling systems. RDT supports 10 Gigabit Ethernet, Gigabit Ethernet, Power over Ethernet (PoE), voice and broadband transmissions with excellent signal isolation, and alien crosstalk performance.



### COUNTRY OF ORIGIN

UK

### WARRANTY INFORMATION

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

### FEATURES & BENEFITS

- Reduced diameter (6.1 mm) cable
- 23 AWG solid annealed copper wire
- 4 unshielded twisted pairs cabled together
- HFFR-LS (Halogen Free Flame Retardant – Low Smoke) jacket enables the cable to meet the requirements of the Construction Products Regulation (CPR) Euroclass Eca
- CE marked for CPR
- Characterized to 550 MHz
- Exceeds PoE standards
- Guaranteed system margins when deployed with Leviton connectivity
- Designed and manufactured in Leviton's carbon neutral UK facility
- Available in REELEX® boxes with TekLok, enabling faster and easier cable pulling during installation
- Packaging is 100% recyclable
- Elimination of cable cross-filler increases speed of installation and reduces jobsite waste for a more sustainable future

### STANDARDS & REGULATIONS

- ISO/IEC 11801 Class E<sub>A</sub>
- IEC 61156-5
- EN50173-1
- EN 50288-11-1
- ANSI/TIA 568.2
- 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)

## PRODUCT SPECIFICATIONS

### RDT Cat 6A U/UTP Euroclass Eca Cables

#### CHARACTERISTICS

##### Installation Characteristics

|                                  |                    |
|----------------------------------|--------------------|
| Min Bend Radius (Installation)   | 8 x Outer Diameter |
| Min Bend Radius (Operation)      | 4 x Outer Diameter |
| Field Test NVP Value             | 0.67               |
| Temp. (Installation)             | 0 °C to +50 °C     |
| Temp. (Operating)                | -20 °C to +60 °C   |
| Segregation Class                | Class C            |
| Max. tensile load (Installation) | 10 kg              |

#### REACTION TO FIRE

| Characteristic             | IEC Standard  | EN Standard  | CPR Rating |
|----------------------------|---------------|--------------|------------|
| Classification / Euroclass | —             | EN 13501-6   | Eca        |
| Single Cable Flame Rating  | IEC 60332-1-2 | EN 60332-1-2 | Pass       |

#### TECHNICAL SPECIFICATIONS

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

| CHARACTERISTIC                 | SPECIFICATION  | TYPICAL PERFORMANCE |
|--------------------------------|----------------|---------------------|
| Conductor Loop Resistance      | Max 19 Ω/100 m | 14.5 Ω/100 m        |
| Conductor Resistance Unbalance | Max 2%         | 0.1%                |
| Insulation Resistance          | >50GΩ.km       | >50GΩ.km            |
| Dielectric Strength            | 2500 Vdc/2secs | Pass                |

#### TECHNICAL SPECIFICATIONS

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

| CHARACTERISTIC                    | SPECIFICATION            | TYPICAL PERFORMANCE    |
|-----------------------------------|--------------------------|------------------------|
| Velocity of Propagation           | <538nsec/100m @ 100 MHz  | 510nsec/100m @ 100 MHz |
| Delay Skew                        | Max 45nsec/100m @100 MHz | 20nsec/100m @ 100 MHz  |
| Characteristic Impedance (Fitted) | 100Ω +/- 5Ω @ 100 MHz    | 100Ω ± 3Ω @ 100 MHz    |

#### PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

| Freq. | RL (dB)  |         | NEXT (dB) |         | PS NEXT (dB) |         | IL (dB/100 m) |         |
|-------|----------|---------|-----------|---------|--------------|---------|---------------|---------|
| MHz   | Standard | Typical | Standard  | Typical | Standard     | Typical | Standard      | Typical |
| 1     | 20.0     | 33.9    | 75.3      | 98.2    | 72.3         | 92.2    | 2.1           | 2.0     |
| 4     | 23.0     | 35.6    | 66.3      | 86.9    | 63.3         | 80.3    | 3.8           | 3.6     |
| 10    | 25.0     | 38.3    | 60.3      | 78.8    | 57.3         | 73.2    | 5.9           | 5.7     |
| 20    | 25.0     | 38.8    | 55.8      | 73.6    | 52.8         | 67.6    | 8.4           | 8.0     |
| 100   | 20.1     | 35.8    | 45.3      | 64.1    | 42.3         | 57.9    | 19.1          | 18.1    |
| 200   | 18.0     | 32.5    | 40.8      | 60.1    | 37.8         | 53.5    | 27.6          | 25.9    |
| 250   | 17.3     | 30.8    | 39.3      | 57.0    | 36.3         | 51.3    | 31.1          | 29.1    |
| 500   | 17.3     | 24.8    | 34.8      | 50.4    | 31.8         | 44.1    | 45.3          | 41.3    |
| 550   | —        | 25.0    | —         | 50.9    | —            | 44.6    | —             | 43.6    |

# PRODUCT SPECIFICATIONS

## RDT Cat 6A U/UTP Euroclass Eca Cables

### PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

| Freq.<br>MHz | ACRF (dB) |         | PSACRF (dB) |         | PSA NEXT (dB) |         | PSAACRF (dB) |         |
|--------------|-----------|---------|-------------|---------|---------------|---------|--------------|---------|
|              | Standard  | Typical | Standard    | Typical | Standard      | Typical | Standard     | Typical |
| 1            | 68.0      | 98.9    | 65.0        | 91.2    | 67.0          | 103.2   | 67.0         | 101.9   |
| 4            | 56.0      | 87.5    | 53.0        | 80.1    | 67.0          | 112.8   | 66.2         | 108.5   |
| 10           | 48.0      | 79.6    | 45.0        | 72.3    | 67.0          | 114.9   | 58.2         | 111.3   |
| 20           | 42.0      | 73.0    | 39.0        | 66.4    | 67.0          | 118.1   | 52.2         | 111.2   |
| 100          | 28.0      | 57.2    | 25.0        | 51.7    | 62.5          | 115.8   | 38.2         | 98.4    |
| 200          | 22.0      | 50.7    | 19.0        | 44.6    | 58.0          | 102.9   | 32.2         | 81.2    |
| 250          | 20.0      | 48.8    | 17.0        | 42.3    | 56.5          | 105.2   | 30.2         | 78.6    |
| 500          | 14.0      | 42.5    | 11.0        | 36.2    | 52.0          | 102.0   | 24.2         | 61.8    |
| 550          | —         | 41.1    | —           | 35.1    | —             | 88.8    | —            | 56.9    |

• 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<br>(m) | Nominal<br>Cable<br>Diameter<br>(mm) | Nominal<br>Cable<br>Weight<br>(kg/km) | Packaging |                                          |                              |                        | Part No.      |
|---------------------------------------|----------|---------------|--------------------------------------|---------------------------------------|-----------|------------------------------------------|------------------------------|------------------------|---------------|
|                                       |          |               |                                      |                                       | Type      | Reel Size Flange<br>Dia. x Width<br>(mm) | Gross<br>Weight<br>(kg/Item) | Items<br>Per<br>Pallet |               |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | Violet † | 500           | 6.1                                  | 42.0                                  | Reel      | 395 x 375                                | 23.5                         | 18                     | RDT-Eca-500VT |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | White †  | 500           | 6.1                                  | 42.0                                  | Reel      | 395 x 375                                | 23.5                         | 18                     | RDT-Eca-500WH |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | Blue †   | 500           | 6.1                                  | 42.0                                  | Reel      | 395 x 375                                | 23.5                         | 18                     | RDT-Eca-500BU |

† Also available in a range of non-standard colors

### PART NUMBER

| Description                           | Color    | Length<br>(m) | Nominal<br>Cable<br>Diameter<br>(mm) | Nominal<br>Cable<br>Weight<br>(kg/km) | Packaging |                               |                              |                        | Part No.       |
|---------------------------------------|----------|---------------|--------------------------------------|---------------------------------------|-----------|-------------------------------|------------------------------|------------------------|----------------|
|                                       |          |               |                                      |                                       | Type      | Box Size<br>L x W x H<br>(mm) | Gross<br>Weight<br>(kg/Item) | Items<br>Per<br>Pallet |                |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | Violet † | 305           | 6.1                                  | 42.0                                  | Box       | 445 x 295 x 430               | 13.6                         | 12                     | RDT-Eca-B305VT |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | White †  | 305           | 6.1                                  | 42.0                                  | Box       | 445 x 295 x 430               | 13.6                         | 12                     | RDT-Eca-B305WH |
| RDT Cat 6A U/UTP Cable, Euroclass Eca | Blue †   | 305           | 6.1                                  | 42.0                                  | Box       | 445 x 295 x 430               | 13.6                         | 12                     | RDT-Eca-B305BU |

† Also available in a range of non-standard colors

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