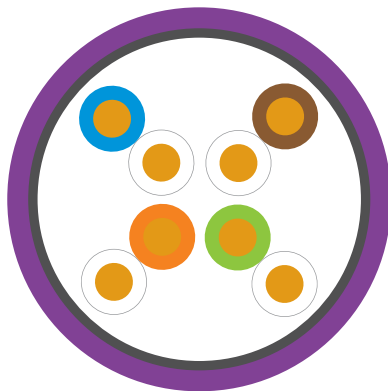


## RDT Cat 6A U/UTP Euroclass Eca Cables

### 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
- Living Building Challenge Red List free
- Available in REELEX<sup>®</sup> 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-D
- IEEE 802.3 PoE Type 1, 2, 3, 4 (100 watts max)
- Cisco UPOE, UPOE+ (90 watts max)
- Power over HDBaseT<sup>™</sup> 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	>5GΩ.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. MHz	RL (dB)		NEXT (dB)		PS NEXT (dB)		IL (dB/100 m)	
	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**



RDT Cat 6A U/UTP Euroclass Eca Cables

**PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED**

Freq. 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 (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	
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 (m)	Nominal Cable Diameter (mm)	Nominal Cable Weight (kg/km)	Packaging				Part No.
					Type	Box Size L x W x H (mm)	Gross Weight (kg/Item)	Items Per 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)