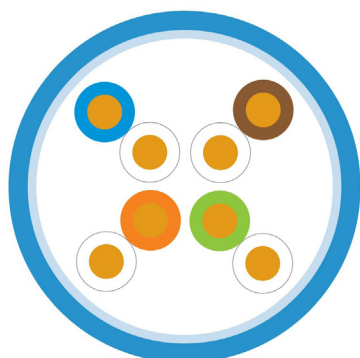


## LM-RDT Cat 6A UTP CMR Cable

### APPLICATION

LM-RDT cable features a reduced diameter of 0.245" (vs. 0.260" average Cat 6A cable), creating better flexibility, optimized cable management, and improved tray-fill ratio for high-density installations. It offers excellent signal isolation, with PoE and alien crosstalk performance that exceeds standards, making it an excellent choice for 802.11ac wireless, HD video and IP security. The cable's isolation wrap provides superior heat management and noise-reducing performance.



### COUNTRY OF ORIGIN

USA or UK

### WARRANTY INFORMATION

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

### FEATURES

- Reduced diameter of 0.245" (6.22 mm)
- 8 dB PSANEXT and PSAACRF margin to Cat 6A requirements
- Internal parameters compliant with Cat 6A standards
- Limited Power (LP) rating of 0.5 A
- Listing Temperature of 75 °C (167 °F)
- Performance to these specifications are independently verified by ETL in the Leviton Verified Performance program
- Compact design optimizes pathway space and reduces pathway costs over other 6A cables
- Improved flexibility and reduced bend radius enables ease of installation
- Elimination of cable cross-filler increases speed of installation and reduces jobsite waste for a more sustainable future
- Precision Twist Technology provides enhanced transmission performance
- Worry-free 100 W PoE performance with up to 360 cables in a single bundle
- Smaller size and lower weight means less greenhouse gases emitted during transportation
- Small diameter reels optimize storage space in warehouses
- TEKPAK boxes allow for the product to be deployed without additional equipment
- Product in TEKPAK boxes are manufactured using 100% renewable energy in a Carbon Neutral facility

### CONSTRUCTION

Bare copper wire insulated with a thermoplastic polymer. Two primaries are twisted together to form a pair and four such pairs are cabled together to form the basic unit. The cable core is surrounded by an isolation wrap and jacketed with flame-retardant polymer alloy.

### STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Category 6A
- 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)
- RoHS Compliant

### FIRE RATING

- Riser - NFPA 70
- CMR - Riser Rated
- UL Listed as CMR-LP (0.5A)
- FT4

**PRODUCT SPECIFICATIONS**  
**LM-RDT™ Cat 6A UTP CMR Cable**

**TECHNICAL SPECIFICATIONS**

**Electrical properties (20 °C ± 5 °C)**

DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 4%
Mutual capacitance	Nom. 5.3 nf/100 m at 1 kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1 kHz
Nominal velocity of propagation	65%
Delay Skew	45 ns/100 m max.

**CHARACTERISTICS**

**Dimensional Characteristics**

Length per reel	1000 ft. (305 m)
Number of pairs	4

**Usage Characteristics**

Category	Cat 6A
Fire Safety	CMR Riser Rated
Temperature (Installation):	+5 °C to +50 °C (41 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temperature	+75 °C (+167 °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 802.3bt	PoE Types 1, 2, 3, and 4

**TECHNICAL DATA - PHYSICAL**

Conductor	23 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.023	(0.58)
Insulated Conductor Diameter - in. (mm)	0.046	(1.16)
Nom. Cable Diameter - in. (mm)	0.245	(6.22)
Nom. Cable Weight - lb./kft (kg/km)	29	(43.16)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	0.98	(24.89)

**COLOR CODE**

Pair-1	White	Blue
Pair-2	White	Orange
Pair-3	White	Green
Pair-4	White	Brown

**PRODUCT SPECIFICATIONS**  
**LM-RDT™ Cat 6A UTP CMR Cable**

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS											
Freq.	RL (dB)		NEXT (db)		PS NEXT (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	
MHz											
1	20.0	20.0	74.3	74.3	72.3	72.3	72.2	72.2	70.2	70.2	
4	23.0	23.0	65.3	65.3	63.3	63.3	61.5	61.5	59.5	59.5	
10	25.0	25.0	59.3	59.3	57.3	57.3	53.4	53.4	51.4	51.4	
16	25.0	25.0	56.2	56.2	54.2	54.2	48.8	48.8	46.8	46.8	
20	25.0	25.0	54.8	54.8	52.8	52.8	46.4	46.4	44.4	44.4	
31.25	23.6	23.6	51.9	51.9	49.9	49.9	41.4	41.4	39.4	39.4	
62.5	21.5	21.5	47.4	47.4	45.4	45.4	32.4	32.4	30.4	30.4	
100	20.1	20.1	44.3	44.3	42.3	42.3	25.2	25.2	23.2	23.2	
250	17.3	17.3	38.3	38.3	36.3	36.3	7.3	7.3	5.3	5.3	
350	16.3	16.3	36.1	36.1	34.1	34.1	-1.1	-1.1	-3.1	-3.1	
400	15.9	15.9	35.3	35.3	33.3	33.3	-4.8	-4.8	-6.8	-6.8	
500	15.2	15.2	33.8	33.8	31.8	31.8	-11.4	-11.4	-13.4	-13.4	
600**	—	14.7	—	32.6	—	30.6	—	-17.4	—	-19.4	
750**	—	14.0	—	31.2	—	29.2	—	-25.5	—	-27.5	

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED												
Freq.	IL (dB)		ACRF (dB)		PSACRF (dB)		PSANEXT (dB)		PSAACRF (dB)		LCL/TCL (dB)	EL TCTL (dB)
	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
MHz												
1	2.1	2.1	67.8	67.8	64.8	64.8	67.0	75.0	67.0	75.0	40.0	35.0
4	3.8	3.8	55.8	55.8	52.8	52.8	67.0	75.0	66.2	74.2	40.0	23.0
10	5.9	5.9	47.8	47.8	44.8	44.8	67.0	75.0	58.2	66.2	40.0	15.0
16	7.5	7.5	43.7	43.7	40.7	40.7	67.0	75.0	54.1	62.1	38.0	10.9
20	8.4	8.4	41.8	41.8	38.8	38.8	67.0	75.0	52.2	60.2	37.0	9.0
31.25	10.5	10.5	37.9	37.9	34.9	34.9	67.0	75.0	48.3	56.3	35.1	—
62.5	15.0	15.0	31.9	31.9	28.9	28.9	65.6	73.6	42.3	50.3	32.0	—
100	19.1	19.1	27.8	27.8	24.8	24.8	62.5	70.5	38.2	46.2	30.0	—
250	31.1	31.1	19.8	19.8	16.8	16.8	56.5	64.5	30.2	38.2	26.0	—
350	37.2	37.2	16.9	16.9	13.9	13.9	54.3	62.3	27.3	35.3	24.6	—
400	40.1	40.1	15.8	15.8	12.8	12.8	53.5	61.5	26.2	34.2	24.0	—
500	45.3	45.3	13.8	13.8	10.8	10.8	52.0	60.0	24.2	32.2	23.0	—
600**	—	50.1	—	12.2	—	9.2	—	58.8	—	30.6	22.2	—
750**	—	56.7	—	10.3	—	7.3	—	57.4	—	28.7	21.2	—

\*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 to 300 MHz for LM-RDT CMR.

**PRINT LEGEND USA:**

BERK-TEK LM-RDT UTP 23 AWG CMR 75C C(UL)US CMR-LP (0.5A) --- FT4, ETL VERIFIED TIA-568.2-D CAT 6A [PATENT] [DATE] [COUNTER] [UID]

**PRINT LEGEND UK:**

BERK-TEK LM-RDT UTP 23 AWG CMR 75C C(UL)US E474303 CMR-LP (0.5A) ---FT4, ETL VERIFIED TIA-568.2-D CAT 6A [DATE][COUNTER][UID]"

**PRODUCT SPECIFICATIONS**  
**LM-RDT™ Cat 6A UTP CMR Cable**



LM-RDT Cat 6A UTP CMR Cable

PART NUMBERS					
Description	Color	Packaging	Field Application	COO	Part No.
LM-RDT Cat 6A UTP CMR Cable	White	Reel	Indoor	USA	11143100
LM-RDT Cat 6A UTP CMR Cable	Blue	Reel	Indoor	USA	11142398
LM-RDT Cat 6A UTP CMR Cable	Dark Gray	Reel	Indoor	USA	11142285
LM-RDT Cat 6A UTP CMR Cable	Yellow	Reel	Indoor	USA	11143101
LM-RDT Cat 6A UTP CMR Cable	Green	Reel	Indoor	USA	11143102
LM-RDT CAT6A UTP CMR Cable	White	TEKPAK Boxes	Indoor	UK	11142629
LM-RDT CAT6A UTP CMR Cable	Blue	TEKPAK Boxes	Indoor	UK	11142455
LM-RDT CAT6A UTP CMR Cable	Dark Gray	TEKPAK Boxes	Indoor	UK	11142608
LM-RDT CAT6A UTP CMR Cable	Yellow	TEKPAK Boxes	Indoor	UK	11143323
LM-RDT CAT6A UTP CMR Cable	Green	TEKPAK Boxes	Indoor	UK	11143322

For other colors or packaging, contact Customer Service at (800) 722-2082.

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

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