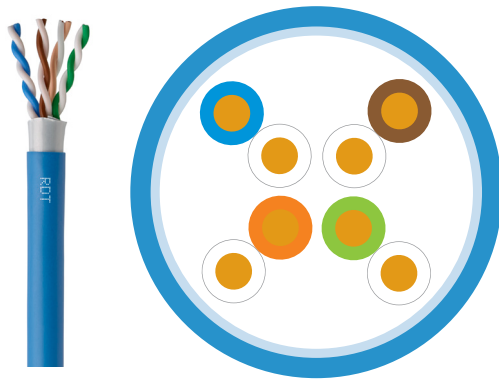


RDT Cat 6A UTP CMR Cable

APPLICATION

RDT cable features a Reduced Diameter Technology with an industry leading small 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 Wi-Fi 5 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://www.leviton.com/ns/warranty)

FEATURES & BENEFITS

- 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
- Leviton Network Solutions is helping to create a more sustainable future and has achieved carbon neutrality across our entire business unit

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
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.

MECHANICAL SPECIFICATIONS

Dimensional Characteristics	
Length per reel	1000 ft. (305 m)
Number of pairs	4
Usage Characteristics	
Category	Cat 6A
Fire Safety	CMR Riser Rated
Temp. (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+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 802.3	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	Blue	White
Pair 2	Orange	White
Pair 3	Green	White
Pair 4	Brown	White

RDT Cat 6A UTP CMR Cable

PRODUCT SPECIFICATIONS
RDT Cat 6A UTP CMR Cable



RDT Cat 6A UTP CMR Cable

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

*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 COO 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 COO 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.
RDT Cat 6A UTP CMR Cable	White	Reel	Indoor	USA	11143100
RDT Cat 6A UTP CMR Cable	Blue	Reel	Indoor	USA	11142398
RDT Cat 6A UTP CMR Cable	Dark Gray	Reel	Indoor	USA	11142285
RDT Cat 6A UTP CMR Cable	Yellow	Reel	Indoor	USA	11143101
RDT Cat 6A UTP CMR Cable	Green	Reel	Indoor	USA	11143102
RDT Cat 6A UTP CMR Cable	Red	Reel	Indoor	USA	11143156
RDT Cat 6A UTP CMR Cable	Black	Reel	Indoor	USA	11143157
RDT Cat 6A UTP CMR Cable	Violet	Reel	Indoor	USA	11143158
RDT Cat 6A UTP CMR Cable	Orange	Reel	Indoor	USA	11143155
RDT Cat 6A UTP CMR Cable	Red	TEKPAK Box	Indoor	USA	11144051
RDT Cat 6A UTP CMR Cable	Black	TEKPAK Box	Indoor	USA	11144052
RDT Cat 6A UTP CMR Cable	Violet	TEKPAK Box	Indoor	USA	11144053
RDT Cat 6A UTP CMR Cable	Orange	TEKPAK Box	Indoor	USA	11144054
RDT Cat 6A UTP CMR Cable	Pink	TEKPAK Box	Indoor	USA	11144055
RDT Cat 6A UTP CMR Cable	Brown	TEKPAK Box	Indoor	USA	11144056
RDT Cat 6A UTP CMR Cable	Gray	TEKPAK Box	Indoor	USA	11144057
RDT CAT 6A UTP CMR Cable	White	TEKPAK Box	Indoor	UK or USA	11142629
RDT CAT 6A UTP CMR Cable	Blue	TEKPAK Box	Indoor	UK or USA	11142455
RDT CAT 6A UTP CMR Cable	Dark Gray	TEKPAK Box	Indoor	UK or USA	11142608
RDT CAT 6A UTP CMR Cable	Yellow	TEKPAK Box	Indoor	UK or USA	11143323
RDT CAT 6A UTP CMR Cable	Green	TEKPAK Box	Indoor	UK or USA	11143322

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

For further support information, visit leviton.com/ns/support

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