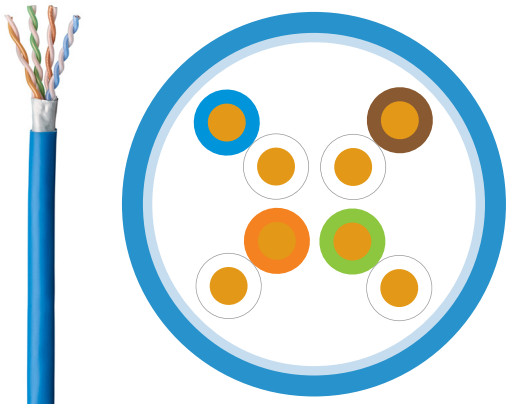
BERK-TEK RDT Cat 6A UTP CMP Cable

APPLICATION

BERK-TEK RDT cable features a reduced diameter of 0.230" (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. The electrical performance is independently verified by ETL (Intertek) as part of the Leviton Verified Performance program.



COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- Reduced diameter of 0.230" (5.84 mm) optimizes pathway space and reduces pathway costs over other 6A cables
- Performance beyond standard is independently verified as part of Leviton Verified Performance Program and includes 8 dB PSANEXT and PSAACRF margin to Cat 6A requirements
- Elimination of cross filler Improves flexibility, reduces bend radius, and increases speed of installation while reducing job site waste for a more sustainable future
- Precision Twist Technology provides enhanced transmission characteristics and robust real-world network performance for 2.5/5/10G applications
- Made with Leviton FLX-1 technology for maximum flexibility, tighter bend radius and smoother pulls
- Smaller size and lower weight per reel means less greenhouse gases emitted during transportation and less warehouse space required for storage
- Includes innovative Patented Profile Technology

CONSTRUCTION

Bare copper wire insulated with thermoplastic. 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 Category 6A
- RoHS Compliant

FIRE RATING

- Plenum - NFPA 70
- CMP - Plenum Rated
- UL Listed as CMP - LP (0.7A)

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PRODUCT SPECIFICATIONS
BERK-TEK™ RDT Cat 6A UTP CMP Cable

LEVITON
Network Solutions

TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)	
DC resistance	Max. 9.38 Ω/100 m at 20 °C
DC resistance unbalance	Max. 4%
Mutual capacitance	Nom. 5.1 nf/100 m at 1kHz
Capacitance unbalance (pair to ground)	Max. 330 pf/100 m at 1kHz
Nominal velocity of propagation	67%
Delay Skew	45 ns/100 m max.

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

MECHANICAL SPECIFICATIONS

Dimensional characteristics	
Length per reel	1000 ft (305 m)
Number of pairs	4
Usage characteristics	
Category	Cat 6A
Fire Safety	CMP - Plenum Rated
Temp. (Installation):	+5 °C to +50 °C (+41 °F to +122 °F)
Temp. (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Temp. (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+105 °C (+221 °F)

TECHNICAL DATA - PHYSICAL

Conductor	23 AWG Bare Copper	
Conductor Diameter - in. (mm)	0.023	(0.56)
Insulated Conductor Diameter - in. (mm)	0.043	(1.09)
Nom. Cable Diameter - in. (mm)	0.230	(5.84)
Nom. Cable Weight - lb./kft (kg/km)	30	(46.13)
Max. Installation Tension - lb. (N)	25	(110)
Min. Bend Radius - in. (mm)	0.92	(23.37)

COLOR CODE

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

PART NUMBERS

Description	Color	Packaging	Field Application	Part No.
RDT Cat 6A UTP CMP Cable	White	Reel	Indoor	11141651
RDT Cat 6A UTP CMP Cable	Blue	Reel	Indoor	11141650
RDT Cat 6A UTP CMP Cable	Dark gray	Reel	Indoor	11141959
RDT Cat 6A UTP CMP Cable	Yellow	Reel	Indoor	11142234
RDT Cat 6A UTP CMP Cable	Green	Reel	Indoor	11142235
RDT Cat 6A UTP CMP Cable	Violet	Reel	Indoor	11142238
RDT Cat 6A UTP CMP Cable	White	TEKPAK™ Boxes	Indoor	11142628
RDT Cat 6A UTP CMP Cable	Blue	TEKPAK Boxes	Indoor	11142454
RDT Cat 6A UTP CMP Cable	Dark gray	TEKPAK Boxes	Indoor	11142571
RDT Cat 6A UTP CMP Cable	Yellow	TEKPAK Boxes	Indoor	11143774
RDT Cat 6A UTP CMP Cable	Green	TEKPAK Boxes	Indoor	11143775
RDT Cat 6A UTP CMP Cable	Violet	TEKPAK Boxes	Indoor	11143779

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

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PRODUCT SPECIFICATIONS
BERK-TEK™ RDT Cat 6A UTP CMP Cable

LEVITON Network Solutions

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PS NEXT (dB)		ACR (dB)*		PSACR (dB)†	
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
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	54.3	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	36.2	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)
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	Product Guarantee	Product Guarantee
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	23.4	—
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 CMP.

PRINT LEGEND:
BERK-TEK RDT UTP 23 AWG CMP 105C C(ETL)US CMP-LP (0.7A) ETL VERIFIED TIA-568.2-D CAT 6A US7560646 [DATE] [COUNTER] [UID]

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

USA
Network Solutions Headquarters
+1 (800) 722 2082
infoUSA@leviton.com

BERK-TEK™ Cable
+1 (800) 237 5835 | infoUSA@leviton.com

Asia Pacific
+852 3620 2602
infoAPAC@leviton.com

Canada
+1 (800) 461 2002
infoCanada@leviton.com

Europe
+44 (0) 1592 772124
infoEurope@leviton.com

Latin America
MX: +52 (55) 2128 6286
LATAM: +52 (55) 2333 5963
infoLATAM@leviton.com

Middle East & Africa
+971 (4) 247 9800
infoMEA@leviton.com

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