Hyper Plus 5e CMP UTP Cable

APPLICATION

Hyper Plus 5e Cat 5e UTP Cables are designed for horizontal network and voice applications in a structured cabling network to connect between the user outlet and horizontal cross-connect.



BENEFITS

- Universally accepted design for global commercial network installations
- Simplified structured cabling solution preserving long-term network investment
- Characterized to 350 MHz, 250 MHz greater than the standard
- Supports most data and voice applications

CONSTRUCTION

24 AWG bare copper wire insulated with thermoplastic. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit under a flame-retardant jacket.

STANDARDS & REGULATIONS

- ANSI/TIA-568.2-D Cat 5e
- 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
- UL 444 rated

FIRE RATING

- Plenum - NFPA 262, CMP
- ETL Listed

COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

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

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TECHNICAL SPECIFICATIONS

Electrical properties (20 °C ± 5 °C)	
DC resistance	Max. 9.38 Ω/100 m
DC resistance unbalance	Max. 5%
Mutual capacitance	Nom. 5.2 nF/100 m at 1 kHz
Capacitance unbalance (pair-to-ground)	Max. 330 pF/100 m at 1 kHz
Delay skew	45 ns/100 m max.
Nominal velocity of propagation	66%

HIGH SPEED DATA AND POWER APPLICATIONS

IEEE 802.3	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

CHARACTERISTICS

Dimensional Characteristics	
Length per reel	1000 ft (305 m)
Number of pairs	4
Usage Characteristics	
Category	Cat 5e
Type of cable	UTP
Temperature (Storage):	-20 °C to +60 °C (-4 °F to +140 °F)
Temperature (Installation):	+10 °C to +50 °C (+50 °F to +122 °F)
Temperature (Operating):	-20 °C to +60 °C (-4 °F to +140 °F)
Listed cable temp.	+75 °C (+167 °F)

COLOR CODE

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

TECHNICAL DATA - PHYSICAL

Conductor	24 AWG bare copper	
Max conductor diameter - in. (mm)	0.020	(0.51)
Max insulated conductor diameter - in. (mm)	0.038	(0.97)
Nom. cable diameter - in. (mm)	0.21	(5.33)
Nom. cable weight - lb./kft (kg/km)	24.8	(36.9)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

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GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS

Freq.	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB/100 m)	
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
1	20.0	20.0	65.3	66.3	62.3	62.3	63.8	63.8
4	23.0	23.0	56.3	57.3	53.3	53.3	51.8	51.8
10	25.0	25.0	50.3	51.3	47.3	47.3	43.8	43.8
16	25.0	25.0	47.2	48.2	44.2	44.2	39.7	39.7
20	25.0	25.0	45.8	46.8	42.8	42.8	37.8	37.8
31.25	23.6	23.6	42.9	43.9	39.9	39.9	33.9	33.9
62.5	21.5	21.5	38.4	39.4	35.4	35.4	27.9	27.9
100	20.1	20.1	35.3	36.3	32.3	32.3	23.8	23.8
150**	—	18.9	—	33.7	—	29.7	—	20.3
200**	—	18.0	—	31.8	—	27.8	—	17.8
250**	—	17.3	—	30.3	—	26.3	—	15.8

GUARANTEED PRODUCT PERFORMANCE TRANSMISSION CHARACTERISTICS, CONTINUED

Freq.	IL (dB/100 m)		ACR* (dB/100 m)		PSACR* (dB/100 m)		PSACRF (dB/100 m)	
MHz	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee	TIA Spec	Product Guarantee
1	2.0	2.0	63.3	64.3	60.3	60.3	60.8	60.8
4	4.1	4.1	52.2	53.2	49.2	49.2	48.8	48.8
10	6.5	6.5	43.8	44.8	40.8	40.8	40.8	40.8
16	8.2	8.2	39.0	40.0	36.0	36.0	36.7	36.7
20	9.3	9.3	36.5	37.5	33.5	33.5	34.8	34.8
31.25	11.7	11.7	31.2	32.2	28.2	28.2	30.9	30.9
62.5	17.0	17.0	21.4	22.4	18.4	18.4	24.9	24.9
100	22.0	22.0	13.3	14.3	10.3	10.3	20.8	20.8
150**	—	27.5	—	6.1	—	2.1	—	17.3
200**	—	32.4	—	-0.6	—	-4.6	—	14.8
250**	—	36.9	—	-6.5	—	-10.5	—	12.8

*TIA values for ACR and PSACR are provided for information only

**Hyper Plus 5e is guaranteed to 100 MHz; values shown above 100 MHz are for information only

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PART NUMBERS

Description	Color	Packaging	Length (Ft.)	Part No.
Hyper Plus 5e Plenum	White	Box	1000	10032223
Hyper Plus 5e Plenum	Blue	Box	1000	10032227
Hyper Plus 5e Plenum	Dark gray	Box	1000	10032207
Hyper Plus 5e Plenum	Yellow	Box	1000	10032235
Hyper Plus 5e Plenum	Green	Box	1000	10032232
Hyper Plus 5e Plenum	Pink	Box	1000	10033814
Hyper Plus 5e Plenum	Red	Box	1000	10032229
Hyper Plus 5e Plenum	Black	Box	1000	10033521
Hyper Plus 5e Plenum	Violet	Box	1000	10034885
Hyper Plus 5e Plenum	Orange	Box	1000	10032236
Hyper Plus 5e Plenum	Brown	Box	1000	10063926

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

PRINT LEGEND:

BERK-TEK HYPER PLUS 5E 24 AWG CMP 75C C(ETL)US ETL VERIFIED TIA-568.2-D CAT 5E & ISO/IEC 11801 CAT 5 [DATE] [COUNTER] [UID]

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

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