Contact
Copper LAN Product Inquiry
Phone: 717-354-6200
berktek.support@nexans.com

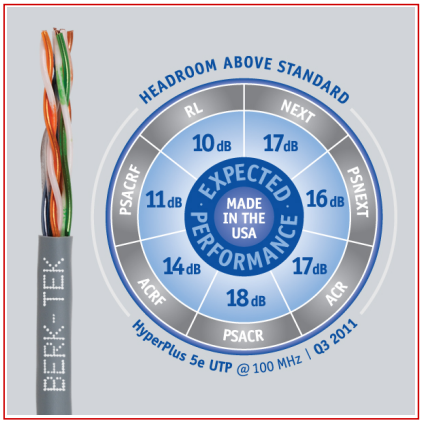
HyperPlus 5e Plenum Rated Category 5e UTP

HyperPlus 5e Plenum

Part Number: 10032227

Berk-Tek's HYPER PLUS 5e Standard Category 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.

Description



Berk-Tek HyperPlus 5e, Performance Guaranteed

Your business demands continuous performance from your IT network, so our specifications aren't simply numbers on the page. They define the way that we do business. This means that you are ***guaranteed*** industry-leading performance and quality for all Berk-Tek products.

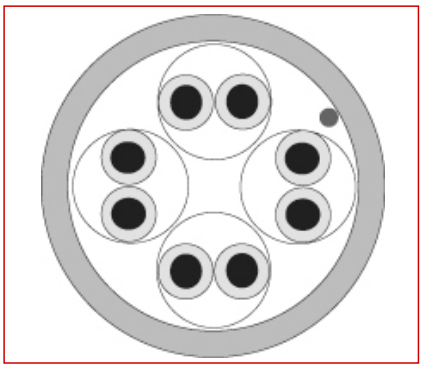
Some other manufacturers talk about "typical" values, at Berk-Tek, we hold ourselves to a higher standard. We won't talk about typicals, we talk about what is true, guaranteed, and independently verified.

Keep your business running by relying on Berk-Tek.

Berk-Tek ...*Because Your Business Runs Through Us.*

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, jacketed with flame-retardant PVC.



Flame Rating

- Plenum - NFPA 262, CMP
- UL Listed

Features

- Supports most data and voice applications
- ETL Verified to TIA/EIA-568-C.2
- RoHS Compliant

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

Standards

International ISO/IEC 11801

National ANSI/TIA-568-C.2; UL 444

Characteristics

Construction characteristics	
Type of cable	UTP
Colour	Blue
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4

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Usage characteristics	
Packaging	Box
Field of application	Indoor
Category	Cat. 5e
Fire safety	Plenum Rated

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HyperPlus 5e Parametric Data: Electrical

	RL (dB)			NEXT (dB)			PSNEXT (dB)		
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	20.0	20.0	30.0	65.3	66.3	83.0	62.3	62.3	79.0
4	23.0	23.0	33.9	56.3	57.3	74.0	53.3	53.3	69.3
10	25.0	25.0	32.7	50.3	51.3	67.2	47.3	47.3	63.0
16	25.0	25.0	35.1	47.2	48.3	64.1	44.2	44.3	59.9
20	25.0	25.0	34.6	45.8	46.8	62.8	42.8	42.8	58.8
31.25	23.6	23.6	33.3	42.9	43.9	59.8	39.9	39.9	55.6
62.5	21.5	21.5	30.2	38.4	39.4	55.6	35.4	35.4	51.3
100	20.1	20.1	30.3	35.3	36.3	52.6	32.3	32.3	48.1
150	—	—	29.6	—	—	49.9	—	—	45.8
200	—	—	29.6	—	—	47.9	—	—	43.7
250	—	—	28.4	—	—	46.1	—	—	41.9
300	—	—	28.1	—	—	44.2	—	—	40.2
350	—	—	27.2	—	—	42.9	—	—	38.8

	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance
1	2.0	2.0	1.8	63.3	64.3	78.3	60.3	60.3	77.1
4	4.1	4.1	3.7	52.2	53.3	66.8	49.2	49.3	65.6
10	6.5	6.5	5.9	43.8	44.9	58.3	40.8	40.9	57.0
16	8.2	8.2	7.5	39.0	40.0	53.6	36.0	36.0	52.4
20	9.3	9.3	8.4	36.5	37.6	51.8	33.5	33.6	50.4
31.25	11.7	11.7	10.5	31.2	32.3	46.3	28.2	28.3	45.0
62.5	17.0	17.0	15.1	21.4	22.4	37.1	18.4	18.4	36.0
100	22.0	22.0	19.2	13.3	14.4	30.0	10.3	10.4	28.7
150	—	—	23.8	—	—	23.0	—	—	21.4
200	—	—	27.7	—	—	16.7	—	—	15.3
250	—	—	31.1	—	—	11.5	—	—	9.9
300	—	—	34.3	—	—	5.9	—	—	4.5

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350	—	—	37.2	—	—	1.4	—	—	0.1

All swept frequency values above 100 MHz are for engineering purposes only.

HyperPlus 5e Parametric Data: Electrical (cont)

	ACRF (dB/100m)			PSACRF (dB/100m)			LCL/TCL	EL TCTL
FREQ MHz	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	Product Guarantee	Product Guarantee
1	63.8	**63.8**	78.7	60.8	**60.8**	73.0	40.0	35.0
4	51.8	**51.8**	66.7	48.8	**48.8**	61.1	40.0	23.0
10	43.8	**43.8**	58.7	40.8	**40.8**	53.1	40.0	15.0
16	39.7	**39.7**	54.3	36.7	**36.7**	48.8	38.0	10.9
20	37.8	**37.8**	52.3	34.8	**34.8**	46.7	37.0	9.0

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31.25	33.9	**33.9**	48.6	30.9	**30.9**	42.3	35.1	5.1
62.5	27.9	**27.9**	42.0	24.9	**24.9**	36.3	32.0	—
100	23.8	**23.8**	37.9	20.8	**20.8**	32.2	30.0	—
150	—	—	34.8	—	—	29.2	28.2	—
200	—	—	32.1	—	—	26.8	27.0	—
250	—	—	29.9	—	—	25.2	26.0	—
300	—	—	27.9	—	—	23.4	25.2	—
350	—	—	27.1	—	—	22.8	24.6	—

All swept frequency values above 100 MHz are for engineering purposes only.

HyperPlus 5e Plenum UTP Physical Data

Technical Data - Physical		
Conductor	24 AWG Bare Copper	
Conductor diameter - in. (mm)	0.020	(0.58)
Insulated conductor dia.-in.(mm)	0.038	(0.97)
Cable diameter - in. (mm)	0.210	(5.33)
Nom. cable wt.-lb./kft. (kg/kft)	25	(11.34)
Max. installation tension - lb. (N)	25	(110)
Min. bend radius - in. (mm)	1	(25.4)

Color Code		
Pair-1	**White/Blue**	**Blue**
Pair-2	**White/Orange**	**Orange**
Pair-3	**White/Green**	**Green**
Pair-4	**White/Brown**	Brown

Temperature Rating (degrees C)	
Installation	0 to +50
Operation	-20 to +60

HyperPlus 5e Plenum Technical Data - Parametric Measurements

Mutual Capacitance	5.2 nF/100 m max.
DC Resistance	9.38 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to Ground Unbalance	330 pF/100 m max.
Velocity of Propagation	66% nom.
DC Resistance unbalance	5% max.

Supported Category 5e Applications

STANDARD	APPLICATION	SPEED
IEEE 802.3	1000BASE-T	1 Gb/s
ATM	155Mb/s	155 Mb/s
IEEE 802.3	100BASE-TX	100 Mb/s
CDDI		100 Mb/s
IEEE 802.3	10BASE-T	10 Mb/s

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Selling delivery information

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