

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.

Perform Beyond Expectations... Choose Berk-Tek.

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

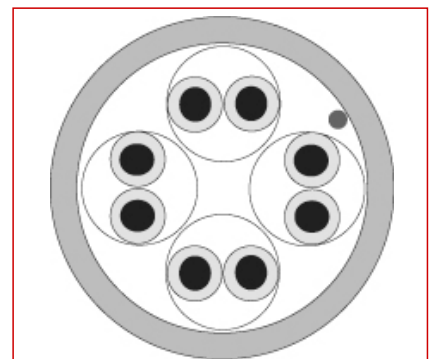
- Plenum - NFPA 262, CMP
- UL Listed

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

Contact

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

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Usage characteristics

Packaging	Box
Field of application	Indoor
Category	Cat. 5e
Fire safety	CMP - Plenum Rated

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HyperPlus 5e Parametric Data: Electrical

FQ = Frequency (MHz) / TIA = TIA Spec / PG = Product Guarantee

FQ	RL (dB)		NEXT (dB)		PSNEXT (dB)		ACRF (dB)		LCL/TCL
	TIA	PG	TIA	PG	TIA	PG	TIA	PG	PG
1	20.00	20.00	65.30	66.30	62.30	62.30	63.80	63.80	40.00
4	23.00	23.00	56.30	53.30	53.30	53.30	51.80	51.70	40.00
10	25.00	25.00	50.30	47.30	47.30	47.30	43.80	43.80	40.00
16	25.00	25.00	47.20	44.30	44.20	44.30	39.70	39.70	38.00
20	25.00	25.00	45.80	46.80	42.80	42.80	37.80	37.70	37.00
31.25	23.60	24.30	42.90	43.90	39.90	39.90	33.90	33.90	35.10
62.5	21.50	21.50	38.40	39.40	35.40	35.40	27.90	27.80	32.00
100	20.10	20.10	35.30	36.30	32.30	32.30	23.80	23.80	30.00
150	—	18.90*	—	33.70*	—	29.70*	—	—	28.20*
200	—	18.00*	—	31.80*	—	27.80*	—	—	27.00*
250	—	17.30*	—	30.30*	—	26.80*	—	—	26.00*
300	—	16.80*	—	29.20*	—	25.20*	—	—	25.20*
350	—	16.30*	—	28.20*	—	24.20*	—	—	24.60*

FQ	IL (dB/100 m)		ACR (dB/100 m)		PSACR (dB/100 m)		PSACRF (dB/100 m)		EL TCTL
	TIA	PG	TIA	PG	TIA	PG	TIA	PG	PG
1	2.00	2.00	63.30	64.30	60.30	60.30	60.80	60.80	35.00
4	4.10	4.10	52.20	53.20	49.20	49.20	48.80	48.70	23.00
10	6.50	6.50	43.80	44.80	40.80	40.80	40.80	40.80	15.00
16	8.20	8.20	39.00	40.00	36.00	36.00	36.70	36.70	10.90
20	9.30	9.30	36.50	37.50	33.50	33.50	34.80	34.80	9.00
31.25	11.70	11.70	31.20	32.20	28.20	28.20	30.90	30.90	5.10
62.50	17.00	17.00	21.40	22.40	18.40	18.40	24.90	24.80	—
100	22.00	22.00	13.30	14.30	10.30	10.30	20.80	20.80	—
150	—	27.50*	—	6.10*	—	2.10*	—	—	—
200	—	32.40*	—	-0.60*	—	-4.60*	—	—	—
250	—	36.90*	—	-6.50*	—	-10.50*	—	—	—
300	—	41.00*	—	-11.80*	—	-15.80*	—	—	—
350	—	44.90*	—	-16.70*	—	-20.70*	—	—	—

*Values provided for reference only

HyperPlus 5e Plenum UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	24 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.020	(0.51)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.038	(0.97)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.21	(5.33)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/kft)	24.8	(11.25)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)	Installation	0 to +50	
Min. bend radius - in. (mm)	1.00	(25.40)	Operation	-20 to +75	

HyperPlus 5e Plenum Technical Data - Parametric Measurements

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

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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

HyperPlus 5e UTP Plenum Jacket Legend

BERK-TEK HYPER-PLUS 24 AWG CMP 75C(UL)US ETL VERIFIED TIA-568-C.2 CAT 5E & ISO/IEC 11801 CAT 5 [ANY APPLICABLE PATENTS]
[DATECODE] [SEQ#] FT

Selling information

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