

**Contact**

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## HyperPlus 5e Riser Rated Category 5e UTP

HyperPlus 5e Riser  
Part Number: 10032535

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

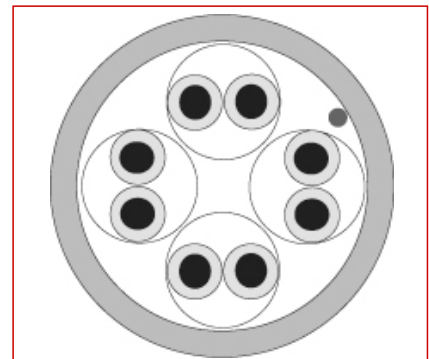
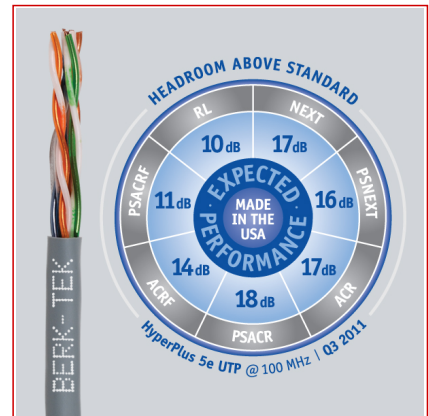
- Riser - NFPA 262, CMR
- UL Listed

#### 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

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### Characteristics

Construction characteristics	
Type of cable	UTP
Colour	White
Dimensional characteristics	
Length per reel	1000.0 ft
Number of pairs	4
Usage characteristics	
Packaging	Box
Field of application	Indoor
Category	Cat. 5e
Fire safety	Riser Rated

### HyperPlus 5e Parametric Data: Electrical

FREQ MHz	RL (dB)			NEXT (dB)			PSNEXT (dB)		
	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>
1	20.0	<b>20.0</b>	30.0	65.3	<b>66.3</b>	83.0	62.3	<b>62.3</b>	79.0
4	23.0	<b>23.0</b>	33.9	56.3	<b>57.3</b>	74.0	53.3	<b>53.3</b>	69.3
10	25.0	<b>25.0</b>	32.7	50.3	<b>51.3</b>	67.2	47.3	<b>47.3</b>	63.0
16	25.0	<b>25.0</b>	35.1	47.2	<b>48.3</b>	64.1	44.2	<b>44.3</b>	59.9
20	25.0	<b>25.0</b>	34.6	45.8	<b>46.8</b>	62.8	42.8	<b>42.8</b>	58.8
31.25	23.6	<b>23.6</b>	33.3	42.9	<b>43.9</b>	59.8	39.9	<b>39.9</b>	55.6
62.5	21.5	<b>21.5</b>	30.2	38.4	<b>39.4</b>	55.6	35.4	<b>35.4</b>	51.3
100	20.1	<b>20.1</b>	30.3	35.3	<b>36.3</b>	52.6	32.3	<b>32.3</b>	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
FREQ MHz	IL (dB/100m)			ACR (dB/100m)			PSACR (dB/100m)		
	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>	TIA Spec	Product Guarantee	<u>Expected Performance</u>
1	2.0	<b>2.0</b>	1.8	63.3	<b>64.3</b>	<b>78.3</b>	60.3	<b>60.3</b>	77.1

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4	4.1	<b>4.1</b>	3.7	52.2	<b>53.3</b>	66.8	49.2	<b>49.3</b>	65.6
10	6.5	<b>6.5</b>	5.9	43.8	<b>44.9</b>	58.3	40.8	<b>40.9</b>	57.0
16	8.2	<b>8.2</b>	7.5	39.0	<b>40.0</b>	53.6	36.0	<b>36.0</b>	52.4
20	9.3	<b>9.3</b>	8.4	36.5	<b>37.6</b>	51.8	33.5	<b>33.6</b>	50.4
31.25	11.7	<b>11.7</b>	10.5	31.2	<b>32.3</b>	46.3	28.2	<b>28.3</b>	45.0
62.5	17.0	<b>17.0</b>	15.1	21.4	<b>22.4</b>	37.1	18.4	<b>18.4</b>	36.0
100	22.0	<b>22.0</b>	19.2	13.3	<b>14.4</b>	30.0	10.3	<b>10.4</b>	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
350	—	—	37.2	—	—	1.4	—	—	0.1

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

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HyperPlus 5e Riser

### HyperPlus 5e Parametric Data: Electrical (cont)

FREQ MHz	ACRF (dB/100m)		PSACRF (dB/100m)		LCL/TCL	EL TCTL		
	TIA Spec	Product Guarantee	Expected Performance	TIA Spec	Product Guarantee	Expected Performance	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
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 Riser UTP Physical Data

Technical Data - Physical			Color Code		
Conductor	24 AWG Bare Copper		Pair-1	White/Blue	Blue
Conductor diameter - in. (mm)	0.020	(0.58)	Pair-2	White/Orange	Orange
Insulated conductor dia.-in.(mm)	0.035	(1.04)	Pair-3	White/Green	Green
Cable diameter - in. (mm)	0.191	(5.69)	Pair-4	White/Brown	Brown
Nom. cable wt.-lb./kft. (kg/km)	20	(13.2)	Temperature Rating (degrees C)		
Max. installation tension - lb. (N)	25	(110)			
Min. bend radius - in. (mm)	1	(25.4)	Installation	0 to +50	
			Operation	-20 to +75	

### HyperPlus 5e Riser Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC Resistance	9.38 Ohms/100 m max.
Skew	25 ns/100 m max.
Pair to Ground Unbalance	330 pF/100 m max.
Velocity of Propagation	72% nom.
DC Resistance unbalance	5% max.

### Supported Category 5e Applications

STANDARD	APPLICATION	SPEED
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HyperPlus 5e Riser

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

PLEASE NOTE: In the interest of product improvement, Berk-Tek, a Nexans company may make improvements or changes in the products, the programs or services described at any time without notice. Additionally, the information contained herein may include typographical errors or technical inaccuracies. Changes will be periodically made to address any such issues.