

## HyperPlus 5e Patch

Berk-Tek's HYPER PLUS 5e Standard Category 5e UTP Cables are designed for patch cords between data communication equipment.

### Description

#### Construction

24 AWG stranded tinned copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit, jacketed with flame-retardant PVC.

#### Standards

North American: ANSI/TIA/EIA-568-B.2 Category 5e

#### Flame Rating

Patch - UL 1685, CM

#### Applications

Berk-Tek's Hyper Plus 5e Standard Category 5e UTP cable is intended for high speed data applications up to 100 MHz including:

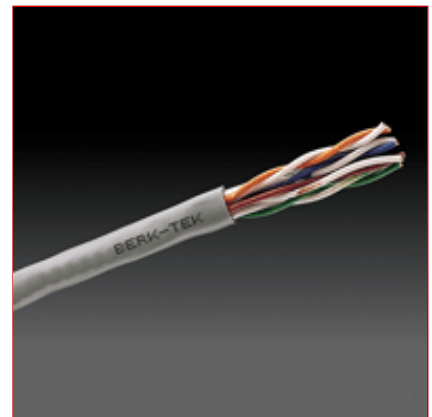
- IEEE 802.3 1000BASE-T, 100BASE-TX, 10BASE-T
- 155 Mb/s ATM
- ANSI X3.262 100 Mb/s
- 4/16 Mb/s Token Ring

#### Features

- Supports 10BASE-T, 100BASE-TX, 1000BASE-T, Token Ring, TP-PMD, Voice, Multimedia, 155 Mb/s ATM
- ETL Verified to TIA/EIA-568-B.2 Category 5e

#### Benefits

- Universally accepted design for global commercial network installations
- Simplified structured cabling solution preserving long-term network investment
- Warranted, trouble-free cabling installation and maintenance



#### Standards

**National** TIA/EIA-568-B.2

#### Contact

Copper Product Inquiry  
United States  
Phone: 717-354-6200  
Fax: 717-354-7944  
copper-pc.us@nexans.com

## HyperPlus 5e Patch

### Characteristics

<b>Construction characteristics</b>	
Type of cable	UTP
<b>Dimensional characteristics</b>	
Length per reel	1000.0 ft
Number of pairs	4
<b>Usage characteristics</b>	
Field of application	Indoor
Category	Cat. 5e
Fire safety	CM

### Color Code

<b>Pair 1</b>	White/Blue	Blue
<b>Pair 2</b>	White/Orange	Orange
<b>Pair 3</b>	White/Green	Green
<b>Pair 4</b>	White/Brown	Brown

### Technical Data - Electrical

Patch			
FREQUENCY	RL (dB)	INSERTION LOSS (Attenuation) (dB/100m)	PS-NEXT (dB)
MHz	min.	max.	min.
1	20	2.4	62.3
4	23	4.9	53.2
10	25	7.8	47.3
16	25	9.8	44.2
20	25	11.1	42.7
31.25	23.6	14.1	39.8
62.5	21.5	20.4	35.3
100	20.1	26.4	32.3
FREQUENCY	NEXT (dB)	ELFEXT (dB)	PS-ELFEXT (dB)
MHz	min.	min.	min.
1	65.3	63.8	60.8
4	56.2	51.7	48.7
10	50.3	43.8	40.8
16	47.2	39.7	36.6
20	45.7	37.7	34.7
31.25	42.8	33.9	30.9
62.5	38.3	27.8	24.8
100	35.3	23.8	20.8

## HyperPlus 5e Patch

IMPORTANT: Berk-Tek performance guarantees are based on swept-frequency testing and apply to all frequencies for the entire specified frequency range and are not limited to the tables of data shown which are presented to demonstrate our guarantees at "representative" frequencies. Combustible version also available. Other jacket colors available.

### Temperature Rating

<b>Installation</b>	0°C to +50°C
<b>Operation</b>	-10°C to +60°C

### Technical Data - Physical

	PATCH	
<b>Conductor diameter-in. (mm)</b>	0.024	(0.61)
<b>Cable diameter-in. (mm)</b>	0.215	(5.5)
<b>Nominal cable weight-lb./kft. (kg/km)</b>	23	(34)
<b>Max. installation tension-lb. (N)</b>	25	(110)
<b>Min. bend radius-in. (mm)</b>	1	(25.4)

### Parametric Measurements

	PATCH
<b>Mutual Capacitance</b>	5.6 nF/100 m nom.
<b>DC resistance</b>	9.09 Ohms/100 m max.
<b>Skew</b>	25 ns/100 m max.
<b>Velocity of Propagation</b>	70% nom.
<b>Input Impedance</b>	100 ± 15% 0.772-100 MHz

### Product List

Berk-Tek P/N	Description	Colour	Packaging
10032718	HyperPlus 5e Patch	Grey	Reel
10032719	HyperPlus 5e Patch	Grey	Box
10032705	HyperPlus 5e Patch	Black	Reel
10032706	HyperPlus 5e Patch	Black	Box
10032707	HyperPlus 5e Patch	Red	Reel
10032708	HyperPlus 5e Patch	Red	Box
10032709	HyperPlus 5e Patch	Green	Reel
10032710	HyperPlus 5e Patch	Green	Box
10034057	HyperPlus 5e Patch	Orange	Reel
10066623	HyperPlus 5e Patch	Brown	Reel
10032711	HyperPlus 5e Patch	Yellow	Reel
10032712	HyperPlus 5e Patch	Yellow	Box

## HyperPlus 5e Patch

Berk-Tek P/N	Description	Colour	Packaging
10032713	HyperPlus 5e Patch	Blue	Reel
10032714	HyperPlus 5e Patch	Blue	Box
10032715	HyperPlus 5e Patch	Violet	Reel
10032716	HyperPlus 5e Patch	White	Reel
10032717	HyperPlus 5e Patch	White	Box
10033590	HyperPlus 5e Patch	Pink	Reel
10083500	HyperPlus 5e Patch	Pink	Box