

**Contact**

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## 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-C.2 Category 5e, UL 444 and C22.2 No.214-02

International: ISO/IEC 11801 2nd Edition Category 5, EU Directive 2002/95/EC (RoHS)

#### 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 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s

#### Features

- Supports most data and voice applications
- 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

### Standards

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

## HyperPlus 5e Patch

### Characteristics

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

### Product List

☎=Make to order, 📦=Make to stock

| Part Number | 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       |
| 📦 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       |

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## HyperPlus 5e Patch

### Technical Data - Physical

| Technical Data - Physical                     |                    |        | Color Code                |                     |               |
|---|--------------------|--------|---------------------------|---------------------|---------------|
|   |                    |        | <b>Pair-1</b>             | <b>White/Blue</b>   | <b>Blue</b>   |
|   |                    |        | <b>Pair-2</b>             | <b>White/Orange</b> | <b>Orange</b> |
|   |                    |        | <b>Pair-3</b>             | <b>White/Green</b>  | <b>Green</b>  |
|   |                    |        | <b>Pair-4</b>             | <b>White/Brown</b>  | <b>Brown</b>  |
|   |                    |        | <b>Temperature Rating</b> |                     |               |
|   |                    |        | <b>Installation</b>       | 0°C to +50°C        |               |
|   |                    |        | <b>Operation</b>          | -20°C to +75°C      |               |
| <b>Conductor</b>                              | 24 AWG Stranded TC |        |                           |                     |               |
| <b>Conductor diameter—in. (mm)</b>            | 0.024              | (0.61) |                           |                     |               |
| <b>Insulated Conductor Diameter- in. (mm)</b> | 0.04               | (1.02) |                           |                     |               |
| <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) |                           |                     |               |

### Technical Data - Parametric Measurements

|                                 |                      |
|---------------------------------|----------------------|
| <b>Mutual Capacitance</b>       | 5.6 nF/100 m max.    |
| <b>DC resistance</b>            | 9.09 Ohms/100 m max. |
| <b>Skew</b>                     | 45 ns/100 m max.     |
| <b>Pair to ground Unbalance</b> | 330 pF/100 m max.    |
| <b>Velocity of Propagation</b>  | 70% nom.             |
| <b>Input Impedance</b>          | 100 ± 15% 1-100 MHz  |
| <b>DC Resistance Unbalance:</b> | 5% max.              |

### Technical data - Electrical

| FREQ<br>MHz | SRL<br>(dB) | RL<br>(dB) | IL<br>(dB/100m) | PS-NEXT<br>(dB) | NEXT<br>(dB) | ELFEXT<br>(dB) | PS-ELFEXT<br>(dB) |
|-------------|-------------|------------|-----------------|-----------------|--------------|----------------|-------------------|
|             | min.        | min.       | max.            | min.            | min.         | min.           | min.              |
| 1           | 25.0        | 20.0       | 2.4             | 62.3            | 66.3         | 63.8           | 60.8              |
| 4           | 25.0        | 23.0       | 4.9             | 53.3            | 57.3         | 51.7           | 48.7              |
| 10          | 25.0        | 25.0       | 7.8             | 47.3            | 51.3         | 43.8           | 40.8              |
| 16          | 25.0        | 25.0       | 9.9             | 44.3            | 48.3         | 39.7           | 36.7              |
| 20          | 25.0        | 24.2       | 11.1            | 42.8            | 46.8         | 37.7           | 34.7              |
| 31.25       | 24.2        | 23.3       | 14.1            | 39.9            | 43.9         | 33.9           | 30.9              |
| 62.5        | 20.7        | 20.7       | 20.4            | 35.4            | 39.4         | 27.8           | 24.8              |
| 100         | 19.0        | 19.0       | 26.4            | 32.3            | 36.3         | 23.8           | 20.8              |

### 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.