

HyperPlus 5e Plenum

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

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.

Standards

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

Flame Rating

Plenum - NFPA 262, CMP

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 100BASE-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
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HyperPlus 5e Plenum

Characteristics

Dimensional characteristics

Length per reel 1000.0 ft

Number of pairs 4

Usage characteristics

Category Cat. 5e

Fire safety Plenum Rated

Technical Data - Electrical

Horizontal				
FREQUENCY	RL	INSERTION LOSS	PS-NEXT	NEXT
	(dB)	(dB/100m)	(dB)	(dB)
MHz	min.	max.	min.	min.
1	20	2	62.3	65.3
4	23	4.1	53.2	56.2
10	25	6.5	47.3	50.3
16	25	8.2	44.2	47.2
20	25	9.3	42.7	45.7
31.25	23.6	11.7	39.8	42.8
62.5	21.5	17	35.3	38.3
100	20.1	22	32.3	35.3
150	18.9	27.5	29.7	33.7
200	18	32.4	27.8	31.8
250	17.3	36.9	26.3	30.3
FREQUENCY	ACR	PS-ACR	ELFEXT	PS-ELFEXT
	(dB@100m)	(dB@100m)	(dB)	(dB)
MHz	min.	min.	min.	min.
1	63.2	60.3	63.8	60.8
4	52.1	49.1	51.7	48.7
10	43.8	40.8	43.8	40.8
16	39	36	39.7	36.6
20	36.4	33.4	37.7	34.7
31.25	31.1	28.1	33.9	30.9
62.5	21.3	18.3	27.8	24.8
100	13.3	10.3	23.8	20.8
150	6.2	2.2	20.2	17.2
200	-	-	17.7	14.7
250	-	-	15.8	12.8

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. Values above 100MHz are for engineering information. Limited combustible version also available. Other jacket colors available.

HyperPlus 5e Plenum

Color Code

Pair 1	White/Blue	Blue
Pair 2	White/Orange	Orange
Pair 3	White/Green	Green
Pair 4	White/Brown	Brown

Temperature Rating

Installation	0°C to +50°C
Operation	-10°C to +60°C

Technical Data - Physical

	CMP	
Conductor diameter-in. (mm)	0.02	(0.520)
Cable diameter-in. (mm)	0.165	(4.2)
Nominal cable weight-lb./kft. (kg/km)	20	(30)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	1	(25.4)

Parametric Measurements

	Plenum
Mutual Capacitance	5.6 nF/100 m nom.
DC resistance	9.38 Ohms/100 m max.
Skew	25 ns/100 m max.
Velocity of Propagation	72% nom. Plenum
Input Impedance	100 ± 15% 0.772-100 MHz

Product List

Berk-Tek P/N	Description	Type of cable	Colour	Packaging	Field of application
10032223	HyperPlus 5e Plenum	UTP	White	Box	Indoor
10032221	HyperPlus 5e Plenum	UTP	White	Reel in a box	Indoor
10032222	HyperPlus 5e Plenum	UTP	White	Reel	Indoor
10033521	HyperPlus 5e Plenum	UTP	Black	Box	Indoor
10033807	HyperPlus 5e Plenum	UTP	Black	Reel	Indoor
10032229	HyperPlus 5e Plenum	UTP	Red	Box	Indoor
10032228	HyperPlus 5e Plenum	UTP	Red	Reel	Indoor

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Berk-Tek P/N	Description	Type of cable	Colour	Packaging	Field of application
10060673	HyperPlus 5e Plenum	UTP	Red	Reel in a box	Indoor
10032232	HyperPlus 5e Plenum	UTP	Green	Box	Indoor
10032231	HyperPlus 5e Plenum	UTP	Green	Reel	Indoor
10032230	HyperPlus 5e Plenum	UTP	Green	Reel in a box	Indoor
10033814	HyperPlus 5e Plenum	UTP	Pink	Box	Indoor
10034145	HyperPlus 5e Plenum	UTP	Pink	Reel	Indoor
10032224	HyperPlus 5e Plenum	UTP	Pink	Reel in a box	Indoor
10063926	HyperPlus 5e Plenum	UTP	Brown	Box	Indoor
10032235	HyperPlus 5e Plenum	UTP	Yellow	Box	Indoor
10032234	HyperPlus 5e Plenum	UTP	Yellow	Reel	Indoor
10032233	HyperPlus 5e Plenum	UTP	Yellow	Reel in a box	Indoor
10032227	HyperPlus 5e Plenum	UTP	Blue	Box	Indoor
10032226	HyperPlus 5e Plenum	UTP	Blue	Reel	Indoor
10032225	HyperPlus 5e Plenum	UTP	Blue	Reel in a box	Indoor
10034885	HyperPlus 5e Plenum	UTP	Violet	Box	Indoor
10035124	HyperPlus 5e Plenum	UTP	Violet	Reel	Indoor
10032236	HyperPlus 5e Plenum	UTP	Orange	Box	Indoor
10033516	HyperPlus 5e Plenum	UTP	Orange	Reel	Indoor
10035018	HyperPlus 5e Plenum	UTP	Orange	Reel in a box	Indoor
10032206	HyperPlus 5e Plenum	UTP	Grey	Reel	Indoor
10032207	HyperPlus 5e Plenum	UTP	Grey	Reel in a box	Indoor