

HyperPlus 5e Plenum
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Part Number: 10032232

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, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801 2nd Edition Category 5. EU Directive 2002/95/EC (RoHS)

Flame Rating

- Plenum - NFPA 262, CMP
- UL Listed

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	n/a	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

Standards

National TIA/EIA-568-B.2



Contact

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- 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



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Characteristics

Construction characteristics	
Type of cable	UTP
Colour	Green
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	Plenum Rated

Technical Data - Physical

Technical Data - Physical			Color Code		
			Pair-1	White/Blue	Blue
Conductor	24 AWG Bare Copper		Pair-2	White/Orange	Orange
Conductor diameter—in. (mm)	0.02	(0.52)	Pair-3	White/Green	Green
Insulated Conductor Diameter- in. (mm)	0.036	(0.91)	Pair-4	White/Brown	Brown
Cable diameter—in. (mm)	0.202	(5.13)			
Nominal cable weight—lb./kft. (kg/km)	22	(32.73)	Temperature Rating		
Max. installation tension—lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius—in. (mm)	1	(25.4)	Operation	-20°C to +60°C	

Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC resistance	9.38 Ohms/100 m max.
Skew	45 ns/100 m max.
Pair to ground Unbalance	330 pF/100 m max.
Velocity of Propagation	72% nom.
Input Impedance	100 ± 15% 1-100 MHz
DC Resistance Unbalance:	5% max.



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Technical Data - Electrical Characteristics

FREQ MHz	SRL (dB)		RL (dB)		INSERTION LOSS (dB/100m)		PS-NEXT (dB)		NEXT (dB)	
	min.	typical	min.	typical	max.	typical	min.	typical	min.	typical
1	25.0	36.9	20.0	39.0	2.0	1.7	62.3	77.0	66.3	84.0
4	25.0	42.2	23.0	37.6	4.1	3.5	53.3	68.3	57.3	84.5
10	25.0	39.1	25.0	38.0	6.5	5.6	47.3	65.0	51.3	72.4
16	25.0	38.6	25.0	37.0	8.2	7.2	44.3	58.6	48.3	77.5
20	24.3	47.0	25.0	46.4	9.3	8.1	42.8	57.3	46.8	71.8
31.25	23.6	34.6	23.6	34.5	11.7	10.1	39.9	53.5	43.9	67.9
62.5	21.5	33.7	21.5	33.0	17.0	14.6	35.4	53.2	39.4	63.6
100	20.1	36.4	20.1	37.3	22.0	18.7	32.3	45.8	36.3	57.5
250	17.3	31.6	17.3	30.9	36.9	30.7	26.3	45.1	30.3	54.8
350	16.3	34.2	16.3	33.2	44.9	36.9	24.2	36.7	28.2	49.3

Technical Data - Electrical Characteristics

FREQ Mhz	ACR (dB@100m)		PS-ACR (dB@100m)		ELFEXT (dB)		PS-ELFEXT (dB)	
	min.	typical	min.	typical	min.	typical	min.	typical
1	64.3	77.5	60.3	75.1	63.8	88.8	60.8	79.4
4	53.2	66.6	49.2	64.4	51.7	78.9	48.7	68.7
10	44.8	60.9	40.8	58.7	43.8	68.0	40.8	60.0
16	40	52.8	36.0	50.6	39.7	60.5	36.7	50.9
20	37.5	49.6	33.5	48.3	37.7	58.2	34.7	54.6
31.25	32.2	44.0	28.2	42.3	33.9	53.9	30.9	47.1
62.5	22.4	38.9	18.4	37.0	27.8	47.7	24.8	42.4
100	14.3	27.6	10.3	25.1	23.8	43.3	20.8	38.1
250	—	12.5	—	11.2	15.8	33.6	12.8	24.8
350	—	-2.3	—	-4	12.9	28.0	9.9	19.5

Frequencies above 250 MHz are for engineering information.

Selling delivery information

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