

Berk-Tek HyperPlus Cat 5e CMR Bulk Cable

Berk-Tek HyperPlus 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

Non-plenum - UL 1666, CMR, CMG

Applications

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

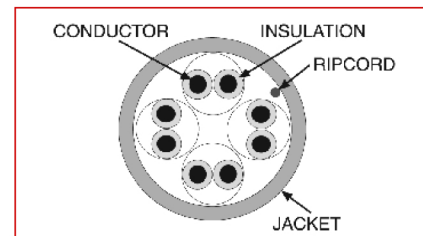
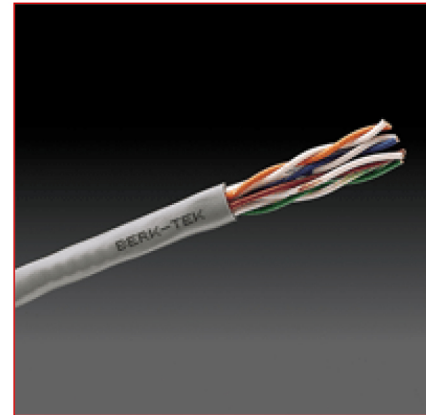
- IEEE 802.3 1000BASE-T, 100BASE-TX, 10BASE-T
- 155 Mb/s ATM
- ANSI X3.262 100 Mb/s
- 4/16 Mb/s Token Ring

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

Berk-Tek HyperPlus.Cat 5e CMR Bulk Cable

Characteristics

Dimensional characteristics

Length per reel	1000.0	ft
Number of pairs	4	

Color Code

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

Parametric Measurements

	Riser
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	70% nom. Non-Plenum
Input Impedance	100 ± 15% 0.772-100 MHz

Technical Data - Physical

	CMR	
Conductor diameter-in. (mm)	0.02	(0.52)
Cable diameter-in. (mm)	0.187	(4.8)
Nominal cable weight-lb./kft. (kg/km)	20	(30)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	1	(25.4)

Temperature Rating

Installation	0°C to +50°C
Operation	-10°C to +75°C

Technical Data - Electrical

Horizontal				
FREQUENCY	RL	INSERTION LOSS	PS-NEXT	NEXT
	(dB)	(dB/100m)	(dB)	(dB)
MHz	min.	max.	min.	min.

Berk-Tek HyperPlus Cat 5e CMR Bulk Cable

Berk-Tek P/N	Description	Colour	Packaging	Category
10032536	HyperPlus 5e Riser	Black	Box	Cat. 5e
10068825	HyperPlus 5e Riser	Violet	Reel	Cat. 5e
10033584	HyperPlus 5e Riser	Red	Box	Cat. 5e
10073294	HyperPlus 5e Riser	Orange	Reel	Cat. 5e
10032539	HyperPlus 5e Riser	Green	Box	Cat. 5e
10032530	HyperPlus 5e Riser	Yellow	Reel	Cat. 5e
10032528	HyperPlus 5e Riser	Blue	Box	Cat. 5e
10044832	HyperPlus 5e Riser	Violet	Box	Cat. 5e
10033808	HyperPlus 5e Riser	Orange	Box	Cat. 5e
10032532	HyperPlus 5e Riser	Pink	Box	Cat. 5e
10032531	HyperPlus 5e Riser	Yellow	Box	Cat. 5e

Berk-Tek HyperPlus Cat 5e CMR Bulk Cable

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.

Product List

Berk-Tek P/N	Description	Colour	Packaging	Category
10032533	HyperPlus 5e Riser	White	Reel in a box	Cat. 5e
10032537	HyperPlus 5e Riser	Green	Reel in a box	Cat. 5e
10032526	HyperPlus 5e Riser	Blue	Reel in a box	Cat. 5e
10032534	HyperPlus 5e Riser	White	Reel	Cat. 5e
10044105	HyperPlus 5e Riser	Black	Reel	Cat. 5e
10034515	HyperPlus 5e Riser	Red	Reel	Cat. 5e
10032538	HyperPlus 5e Riser	Green	Reel	Cat. 5e
10032535	HyperPlus 5e Riser	White	Box	Cat. 5e
10032529	HyperPlus 5e Riser	Yellow	Reel in a box	Cat. 5e
10032527	HyperPlus 5e Riser	Blue	Reel	Cat. 5e