

Contact

Copper LAN Product Inquiry
Phone: 717-354-6200
copper-pc.us@nexans.com

Hyper Plus 5e Riser

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

- Riser - UL 1666, CMR
- ETL 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:

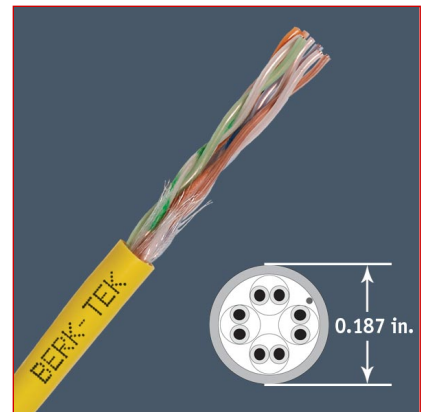
- IEEE 802.3 1000BASE-T 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100Mb/s
- CDDI 100Mb/s
- IEEE 802.3 10BASE-T 10Mb/s

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.
- Characterized to 250 MHz, 150 MHz greater than standard.



Standards

National TIA/EIA-568-B.2

Hyper Plus 5e Riser

Characteristics

Dimensional characteristics

Length per reel	1000.0 ft
Number of pairs	4

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)	0.035	(0.89)	Pair-4	White/Brown	Brown
Cable diameter-in. (mm)	0.187	(4.8)	Temperature Rating		
Nominal cable weight-lb./kft. (kg/km)	20	(30)	Installation	0°C to +50°C	
Max. installation tension-lb. (N)	25	(110)	Operation	-20°C to +75°C	
Min. bend radius-in. (mm)	1	(25.4)			

Technical Data - Parametric Measurements

Mutual Capacitance	5.6 nF/100 m max.
DC resistance	9.38 Ohms/100 m max.
Skew	25 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.

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

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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.

Product List

☎ = Make to order, 📦 = Make to stock

Part Number	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
📦 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
📦 10032508	HyperPlus 5e Riser	Grey	Reel in a box	Cat. 5e
📦 10032509	HyperPlus 5e Riser	Grey	Reel	Cat. 5e
📦 10032510	HyperPlus 5e Riser	Grey	Box	Cat. 5e
📦 10163324	HyperPlus 5e Riser	Black	Reel in a box	Cat. 5e

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Part Number	Description	Colour	Packaging	Category
10163325	HyperPlus 5e Riser	Red	Reel in a box	Cat. 5e
10116981	HyperPlus 5e Riser	Brown	Reel	Cat. 5e
10104234	HyperPlus 5e Riser	Brown	Box	Cat. 5e
10043082	HyperPlus 5e Riser	Pink	Reel in a box	Cat. 5e
10116980	HyperPlus 5e Riser	Pink	Reel	Cat. 5e

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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.