

Power Sum Category 5e 25-Pair UTP Riser

Berk-Tek's Category 5e 25 pair UTP Cables are designed for use in data and voice backbone applications and is ideal for Category 5e zone cabling applications and interconnect cable assemblies.

Description

Construction

24 AWG bare copper wire insulated with polyethylene (non-plenum). Two layer core construction jacketed in flame-retardant PVC (non-plenum).

Standards

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

Flame Rating

Non-Plenum - UL 1666, CMR

Applications

Berk-Tek's 25 pair power sum Category 5e cable is intended for voice and data applications including:

- 100BASE-TX, 10BASE-T
- 155 Mb/s ATM
- ANSI X3.263 100 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 backbone cable power sum performance
- Small diameter and flexible construction with stable cable geometry.
- Ideally suited for backbone, cross-connect and pre-connectorized assemblies.

Benefits

- Supports current networking protocols
- Simplified structured cabling solution preserving long-term network investment
- High-performance multi-pair cable assemblies compatible with today's most common network interconnections.



Standards

National TIA/EIA-568-B.2

Contact

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Power Sum Category 5e 25-Pair UTP Riser

Characteristics

Dimensional characteristics

Length per reel	1000.0 ft
Number of pairs	25

Usage characteristics

Category	Cat. 5e
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Color Code

Pair 1	White	Blue	Pair 13	Black	Green
Pair 2	White	Orange	Pair 14	Black	Brown
Pair 3	White	Green	Pair 15	Black	Gray
Pair 4	White	Brown	Pair 16	Yellow	Blue
Pair 5	White	Gray	Pair 17	Yellow	Orange
Pair 6	Red	Blue	Pair 18	Yellow	Green
Pair 7	Red	Orange	Pair 19	Yellow	Brown
Pair 8	Red	Green	Pair 20	Yellow	Gray
Pair 9	Red	Brown	Pair 21	Violet	Blue
Pair 10	Red	Gray	Pair 22	Violet	Orange
Pair 11	Black	Blue	Pair 23	Violet	Green
Pair 12	Black	Orange	Pair 24	Violet	Brown
			Pair 25	Violet	Gray

Temperature Rating

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

Technical Data - Physical

Conductor diameter-in. (mm)	0.021 (0.53)
Cable diameter-in. (mm)	0.5 (12.7)
Bend radius-in. (mm)	5 (127)
Mutual Capacitance, nF/100 m nom.	5.6
DC resistance, Ohms/100 m max.	9.38
Nominal Velocity of Propagation %	70
Characteristic Impedance (Ohms)	100 ± 15
Cable weight-lb./kft. (kg/km)	132 (195)
Delay Skew nsec	45

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Technical Data - Electrical

FREQUENCY	INSERTION LOSS	RL	SRL	PS-NEXT	NEXT	ELFEXT	PS-ELFEXT
MHz	dB/100 m max.	dB min.	dB min.	dB min.	dB min	dB min.	dB min.
1	2	20	25	62.3	65.3	63.8	60.8
4	4.1	23	25	53.2	56.3	51.7	48.7
10	6.5	25	25	47.3	50.3	43.8	40.8
16	8.2	25	25	44.2	47.3	39.7	36.7
20	9.3	25	25	42.7	45.8	37.7	34.7
31.25	11.7	23.6	23.6	39.8	42.9	33.9	30.9
62.5	17	21.5	21.5	35.3	38.4	27.8	24.8
100	22	20.1	20.1	32.3	35.3	23.8	20.8
150	27.5	18.9	18.9	29.7	32.7	20.2	17.2
200	32.4	18.0	18.0	27.8	30.8	17.7	14.7
250	36.9	17.3	17.3	26.3	29.3	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 100 MHz are for engineering information. Other jacket colors available.

Product List

Berk-Tek P/N	Description	Type of cable	Colour	Packaging	Field of application
10061456	Power Sum Category 5e 25 pair UTP Riser	UTP	Grey	Reel	Indoor
10063038	Power Sum Category 5e 25 pair UTP Riser	UTP	Green	Reel	Indoor
10092804	Power Sum Category 5e 25 pair UTP Riser	UTP	White	Reel	Indoor