

Power Sum Category 5e 25-Pair UTP Plenum

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 FEP (plenum). Two layer core construction jacketed in flame-retardant fluoropolymer (plenum).

Standards

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

Flame Rating

Plenum - NFPA 262, CMP

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 Plenum

Characteristics

Dimensional characteristics

Length per reel	1000.0 ft
Number of pairs	25

Usage characteristics

Category	Cat. 5e
Fire safety	Plenum Rated

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.

Color Code

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

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Temperature Rating

Installation	-50°C to +200°C
Operation	-50°C to +200°C

Technical Data - Physical

Conductor diameter-in. (mm)	0.021 (0.53)
Cable diameter-in. (mm)	0.46 (11.7)
Bend radius-in. (mm)	6.9 (175)
Mutual Capacitance, nF/100 m nom.	5.6
DC resistance, Ohms/100 m max.	9.38
Nominal Velocity of Propagation %	72
Characteristic Impedance (Ohms)	100 ± 15
Cable weight-lb./kft. (kg/km)	142 (210)
Delay Skew nsec	45

Product List

Berk-Tek P/N	Description	Type of cable	Colour	Packaging	Field of application
10059632	Power Sum Category 5e 25 pair UTP Plenum	UTP	Grey	Reel	Indoor
10119643	Power Sum Category 5e 25 pair UTP Plenum	UTP	Yellow	Reel	Indoor
10089521	Power Sum Category 5e 25 pair UTP Plenum	UTP	White	Reel	Indoor