Berk-Tek®
A NEXANS COMPANY

Contact
Copper LAN Product Inquiry
Phone: 717-354-6200
berktek.support@nexans.com

Multi-Pair Category 3

Berk-Tek's Category 3 UTP Power Sum cables are designed for use in voice applications. These cables are used to support building backbone service. They also can be used for interconnecting satellite wiring closets.

Description

Construction

24 AWG) bare copper wire insulated with thermoplastic. Three layer core construction jacketed in flame retardant PVC.

Standards

- North American: ANSI/TIA/EIA-568-C.2, UL 444 and C22.2 No.214-02
- International: ISO/IEC 11801, EU Directive 2002/95/EC (RoHS)

Flame Rating

- Non-plenum-UL 1666, CMR, CMG, IEC 332-1
- Plenum-NFPA 262, CMP
- ELT Listed

Applications

Berk-Tek's Multi-Pair Category 3 UTP Power Sum Backbone cables are intended for data and voice applications including:

- Ethernet 10BASE-T
- Voice

Features

- ANSI/TIA/EIA-568-B.2 Category 3 Backbone Cable
- Supports 10BASE-T and Voice
- Ideally suited for backbone, cross-connect and pre-connectorized assemblies

Benefits

- Assurance that every link will meet the most demanding transmission requirements
- Simplified structured cabling solution preserving long-term network investment

Standards

National ANSI/TIA-568-C.2

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Characteristics

Construction characteristics	
Type of cable	UTP
Dimensional characteristics	
Length per reel	1000.0 ft
Usage characteristics	
Field of application	Indoor
Category	Cat. 3

Product List

=Make to order, =Make to stock

	Part Number	Description	Colour	Number of pairs	Packaging	Fire safety
🖧	10032113	100 Pair Category 3 Plenum	Grey	100	Reel	Plenum Rated
🖧	10032472	100 Pair Category 3 Riser	Grey	100	Reel	Riser Rated
🖧	10032123	200 Pair Category 3 Plenum	Grey	200	Reel	Plenum Rated
🖧	10032493	200 Pair Category 3 Riser	Grey	200	Reel	Riser Rated
🖧	10032036	25 Pair Category 3 Plenum	Blue	25	Reel	Plenum Rated
🖧	10032111	25 Pair Category 3 Plenum	Grey	25	Reel	Plenum Rated
🖧	10032396	25 Pair Category 3 Riser	Grey	25	Reel	Riser Rated
🖧	10032124	300 Pair Category 3 Plenum	Grey	300	Reel	Plenum Rated
🖧	10032494	300 Pair Category 3 Riser	Grey	300	Reel	Riser Rated
🖧	10032112	50 Pair Category 3 Plenum	Grey	50	Reel	Plenum Rated
🖧	10032471	50 Pair Category 3 Riser	Grey	50	Reel	Riser Rated

 = Make to order, = Make to stock

Technical Data - Electrical

Frequency (MHz)	Insertion Loss (dB/100m max)	SRL (dB min)	PS-NEXT (dB min)
1	2.6	12	41.3
4	5.6	12	32.3
10	9.8	12	26.3
16	13.1	10	23.3

Technical Data - Physical

	25 PR (CMR)	25 PR (CMP)	50 PR (CMR)	50 PR (CMP)	100 PR (CMR)
Mutual Capacitance, nF/100 m nom.	6.6	6.6	6.6	6.6	6.6
DC Resistance, Ohms/100 m max.	9.4	9.4	9.4	9.4	9.4
Conductor diameter—in. (mm)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)
Cable diameter—in. (mm)	.390 (9.9)	.382 (9.7)	.525 (13.3)	.496 (12.59)	.895 (22.72)

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	97 (144)	100 (148)	196 (290)	198 (293)	387 (573)
Nominal cable weight lb/k ft.(kg/km)					
	100 PR (CMP)	**200 PR (CMR)**	**200 PR (CMP)**	**300 PR (CMR)**	**300 PR (CMP)**
Mutual Capacitance, nF/100 m nom.	6.6	6.6	6.6	6.6	6.6
DC Resistance, Ohms/100 m max.	9.4	9.4	9.4	9.4	9.4
Conductor diameter—in. (mm)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)	0.02 (0.51)
Cable diameter—in. (mm)	.889 (22.57)	1.123 (28.51)	1.012 (25.69)	1.314 (33.36)	1.27 (32.25)
Nominal cable weight lb/k ft. (kg/km)	395 (585)	691 (1023)	691 (1023)	1226 (1814)	1226 (1814)

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

Application note: If installing as 6 4-pr. connections, use sequential pairs (1-4, 5-8, etc.) to ensure standard performance

Temperature Rating

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

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.