

Berk-Tek's Hyper Plus 5e OSP (Outside Plant) Standard Category 5e UTP cables are designed for outside applications, either aerial or buried in conduit or duct, where building to building interconnections must be made.

Description

Construction

24 AWG bare copper wire insulated with polyethylene. Two insulated conductors twisted together to form a pair and four such pairs cabled to form the basic unit which is injected with a water resistant flooding compound and jacketed with UV resistant polyethylene.

Standards

- North American ANSI/TIA/EIA-568-B.2 Category 5e and Category 5, ANSI/ICEA 5-56-434
- International ISO/IEC 11801 Category 5
- European EN 50173

Applications

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

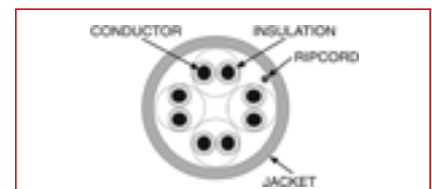
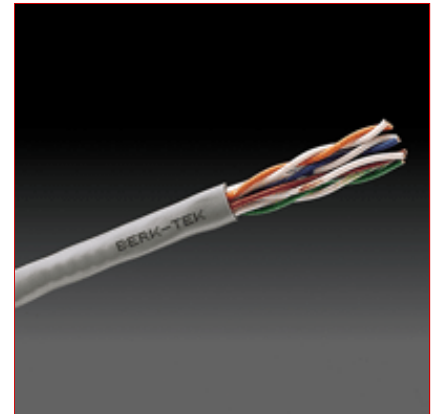
- IEEE 802.3 1000BASE-T, 100BASE-TX, 10BASE-T
- 155 Mb/s ATM
- ANSI X3.263 100 Mb/s
- 4/16 Mb/s Token Ring

Features

- Supports 10BASE-T, 100BASE-TX, 1000BASE-T, Token Ring, TP-PMD, Voice, Telephony, Multimedia, 155 Mb/s ATM
- Meets ANSI/ICEA 5-56-434 Standard for Polyolefin Insulated Communications Cables for Outdoor Use
- ETL Verified to TIA/EIA-568-B.2 Category 5e

Benefits

- Can be used to interconnect buildings or can be run beneath a slab in duct or conduit
- Simplified structured cabling solution preserving long-term network investment
- Warranted, trouble-free cabling installation and maintenance



Standards

National TIA/EIA-568-B.2

HyperPlus 5e OSP

Contact

Copper Product Inquiry

United States

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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

Technical Data - Electrical

HORIZONTAL								
FREQUENCY	RL	INSERTION LOSS	PS-NEXT	NEXT	ACR	PS-ACR	ELFEXT	PS-ELFEXT
MHz	dB min	dB/100m max	dB min	dB min	dB/100m min	dB/100m min	dB min.	dB min
1	20	2	62.3	65.3	63.2	60.3	63.8	60.8
4	23	4.1	53.2	56.2	52.1	49.1	51.7	48.7
10	25	6.5	47.3	50.3	43.8	40.8	43.8	40.8
16	25	8.2	44.2	47.2	39	36	39.7	36.6
20	25	9.3	42.7	45.7	36.4	33.4	37.7	34.7
31.25	23.6	11.7	39.8	42.8	31.1	28.1	33.9	30.9
62.5	21.5	17	35.3	38.3	21.3	18.3	27.8	24.8
100	20.1	22	32.3	35.3	13.3	10.3	23.8	20.8

Parametric Measurements

	OSP 5e
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	72% nom.
Input Impedance	100 ± 15% 0.772-100 MHz

Temperature Rating

Installation	-20°C to +60°C
Operation	-20°C to +60°C

Technical Data - Physical

	OSP 5e	
Conductor diameter-in. (mm)	0.02	(0.52)
Cable diameter-in. (mm)	0.207	(5.3)
Nominal cable weight-lb./kft. (kg/km)	20	(30)
Max. installation tension-lb. (N)	25	(110)
Min. bend radius-in. (mm)	1	(25.4)