

Contact

Copper LAN Product Inquiry
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HyperPlus 5e OSP

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, EU Directive 2002/95/EC (RoHS)

Applications

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

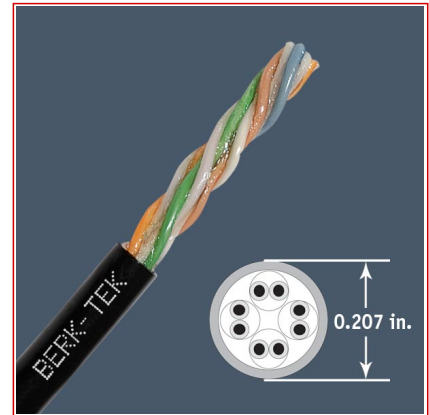
- IEEE 802.3 1000BASE-T 1 Gb/s
- ATM 155 Mb/s 155 Mb/s
- IEEE 802.3 100BASE-TX 100 Mb/s
- CDDI 100 Mb/s
- IEEE 802.3 10BASE-T 10 Mb/s

Features

- Supports most data and voice applications
- 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
- Fully water blocked

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
- Meets NEC requirement for cable in wet locations



Standards

National TIA/EIA-568-B.2

HyperPlus 5e OSP

Characteristics

Construction characteristics		
Colour		Black
Dimensional characteristics		
Length per reel		1000.0 ft
Number of pairs		4
Usage characteristics		
Packaging		Reel
Category		Cat. 5e

Technical Data - Physical

Technical Data - Physical			Color Code		
			Pair-1	White	Blue
Conductor	24 AWG BC		Pair-2	White	Orange
Conductor diameter-in. (mm)	0.02	(0.51)	Pair-3	White	Green
Insulated Conductor Diameter- in. (mm)	0.038	(0.96)	Pair-4	White	Brown
Cable diameter-in. (mm)	0.207	(5.3)			
Nominal cable weight-lb./kft. (kg/km)	20	(30)	Temperature Rating		
Max. installation tension-lb. (N)	25	(110)	Installation	0°C to +50°C	
Min. bend radius-in. (mm)	1	(25.4)	Operation	-20°C to +60°C	

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.

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Technical Data - Electrical

FREQ MHz	SRL (dB)	RL (dB)	IL (dB/100m)	PS-NEXT (dB)	NEXT (dB)	ACR (dB/100m)	PS-ACR (dB/100m)	ELFEXT (dB)	PS-ELFEXT (dB)
	min.	min.	max.	min.	min.	min.	min.	min.	min.
1	25.0	20.0	2.0	62.3	66.3	64.3	60.3	63.8	60.8
4	25.0	23.0	4.1	53.3	57.3	53.2	49.2	51.8	48.8
10	25.0	25.0	6.5	47.3	51.3	44.8	40.8	43.8	40.8
16	25.0	25.0	8.2	44.2	48.3	40.1	36	39.7	36.7
20	25.0	25.0	9.3	42.8	46.8	37.5	33.5	37.8	34.8
31.25	23.6	23.6	11.7	39.9	43.9	32.2	28.2	33.9	30.9
62.5	21.5	21.5	17.0	35.4	39.4	22.4	18.4	27.9	24.9
100	20.1	20.1	22.0	32.3	36.3	14.3	10.3	23.8	20.8

Product List

	Part Number	Description
	10071496	HyperPlus 5e OSP
☎ = Make to order,  = Make to stock		

Selling delivery information

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