



TECHNICAL SPECIFICATIONS

Category Cable

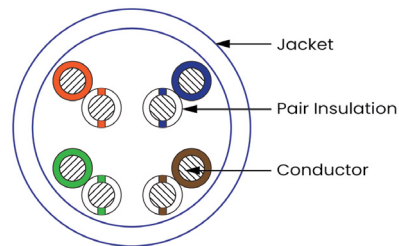
Cat 5e UTP Plenum

PART NUMBER: L5EP CC L XX

See part legend below

DESCRIPTION:

24 AWG 4 Pair UTP OFC Category 5e Plenum Cable



Conductor	
Assembly	4 pair twisted (8 conductors)
Material	Oxygen Free Copper
Copper Size	24 AWG (Solid)
Diameter	0.020 in : 0.51 mm
Pair Identification	
Pair 1	Blue/White: co-extruded blue stripe on white single
Pair 2	Orange/White: co-extruded orange stripe on white single
Pair 3	Green/White: co-extruded green stripe on white single
Pair 4	Brown/White: co-extruded brown stripe on white single
Insulation	
Material	Perfluoroethylene Propylene (FEP)
Jacket	
Material	Low Smoke Polyvinyl Chloride (LSPVC)
Thickness	0.020 in. : 0.51 mm
Overall Diameter	0.195 in. : 4.95 mm
Rip Cord	No

PART LEGEND

Jacket Color (CC)			
BK	Black	PK	Pink
BL	Blue	PR	Purple
GY	Gray	RD	Red
GN	Green	WH	White
OR	Orange	YL	Yellow

Industry Approvals	
ANSI/TIA-568 Category 5E	
ISO/IEC 11801 Class D	
National Electric Code®	Article 800
UL Standard 444	Type CMP
EU RoHS III 2015/863/EU Compliant	
Electrical Performance	
DC Resistance (68° F : 20° C)	≤ 8.72 Ω / 100m
DC Resistance Unbalance	5% Max
Characteristic Impedance	100 Ω ± 15 Ω
Capacitance	5.6 nF / 100m
Operation Temperature	-4° F to 140° F : -20° C to 60° C
Maximum Skew	15ns / 100m
Velocity of Propagation	74%
Mechanical Characteristics	
Pull Tension	25 Lbs. : 111 N
Installation Temperature	32° F to 140° F : 0° C to 60° C

Length (L)				Put-up (XX)	
5	500'	20	2000'	BX	Pull Box
1	1000'	25	2500'	RL	Reel
15	1500'			CP	Coil Pack

Liberty specifications are nominal and subject to change without notice.
Registered trademarks are held by the respective owners.

TECHNICAL SPECIFICATIONS

ANSI/TIA-568 CATEGORY 5E (SWEPT FREQUENCIES TO 350 MHZ)

Electrical Performance:

Frequency (MHz)	IL Max.	NEXT Min.	PS. NEXT Min.	ACR Min.	PS. ACR Min.	ACRF Min.	PS. ACRF Min.	RL Min.
	dB/100min							
.772	1.8	67.0	64.0	65.2	62.0	66.0	63.0	NA
1.0	2.0	65.3	62.3	63.3	60.3	63.8	60.8	20.0
4.0	4.1	56.3	53.3	52.2	49.2	51.7	48.7	23.0
8.0	5.8	51.8	48.8	46.0	44.0	45.7	42.7	24.5
10.0	6.5	50.3	47.3	43.8	40.8	43.8	40.8	25.0
16.0	8.2	47.3	44.3	39.0	36.0	39.9	36.7	25.0
20.0	9.2	45.8	42.8	36.5	33.5	37.7	34.7	25.0
25.0	10.4	44.3	41.3	33.9	30.9	35.8	32.8	24.3
31.25	11.7	42.9	39.9	31.2	28.2	33.9	30.9	23.6
62.5	17.0	38.4	35.4	21.4	18.4	27.8	24.8	21.5
100.0	22.0	35.3	32.3	13.3	10.3	23.8	20.8	20.1
155.0	28.1	32.5	29.5	4.4	1.4	19.9	16.9	18.8
200.0	32.4	30.8	27.8	NS	NS	17.7	14.7	18.0
300.0	41.0	32.3	28.2	NS	NS	17.2	14.2	16.8
350.0	44.9	30.2	27.2	NS	NS	15.9	12.9	16.3

* All tests include swept frequency measurements

Values above 100MHz are for information purposes only