



TECHNICAL SPECIFICATIONS

Category Cable

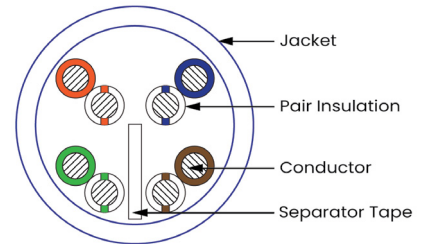
Cat 6E UTP Plenum

PART NUMBER: L6EP CC L XX

See part legend below

DESCRIPTION:

23 AWG 4 Pair UTP OFC Category 6 Plenum Cable



Conductor	
Assembly	4 pair twisted (8 conductors)
Material	Oxygen Free Copper
Copper Size	23 AWG (Solid)
Diameter	0.022 in : 0.57 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	0.019 in. : 0.48 mm
Overall Diameter	0.215 in. : 5.46 mm
Rip Cord	No

Industry Approvals

ANSI/TIA-568 Category 6
ISO/IEC 11801 Class E
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)	≤ 6.66 Ω / 100m
DC Resistance Unbalance	2,5% Max
Characteristic Impedance	100 Ω ± 15 Ω
Capacitance	4.6 nF / 100m
Operation Temperature	-4° F to 140° F : -20° C to 60° C
Maximum Skew	45ns / 100m
Velocity of Propagation	73%

Mechanical Characteristics

Pull Tension	25 Lbs. : 111 N
Installation Temperature	32° F to 140° F : 0° C to 60° C

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

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 6 (SWEPT FREQUENCIES TO 550 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							
1.0	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4.0	3.8	65.3	63.3	61.5	59.5	55.8	52.8	23.0
8.0	5.3	60.8	58.8	55.4	53.4	49.7	46.7	24.5
10.0	6.0	59.3	57.3	53.3	51.3	47.8	44.8	25.0
16.0	7.6	56.2	54.2	48.7	46.7	43.7	40.7	25.0
20.0	8.5	54.8	52.8	46.3	44.3	41.8	38.8	25.0
25.0	9.5	53.3	51.3	43.8	41.8	39.8	36.8	24.3
31.3	10.7	51.9	49.9	41.2	39.2	37.9	34.9	23.6
62.5	15.4	47.4	45.4	32.0	30.0	31.9	28.9	21.5
100.0	19.8	44.3	42.3	24.5	22.5	27.8	24.8	20.1
155.0	25.2	41.4	39.4	16.2	14.2	24.0	21.0	18.8
200.0	29.0	39.8	37.8	10.7	8.7	21.8	18.8	18.0
250.0	32.8	38.3	36.3	5.4	3.4	19.8	16.8	17.3
350.0	39.7	37.1	34.1	-3.6	-5.6	16.9	13.9	NS
400.0	42.9	36.3	33.3	-7.6	-9.6	15.8	12.7	NS
550.0	51.4	36.2	34.2	NS	NS	14.0	10.9	NS

* All tests include swept frequency measurements

Values above 250 MHz are for information purposes only