

UltraPipe® (Category 6e 550 MHz)

ANSI/TIA/EIA 568 Category 6

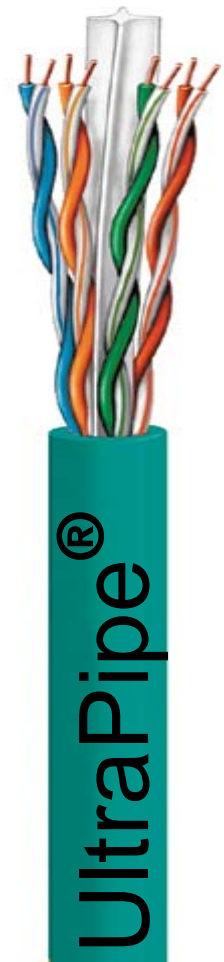
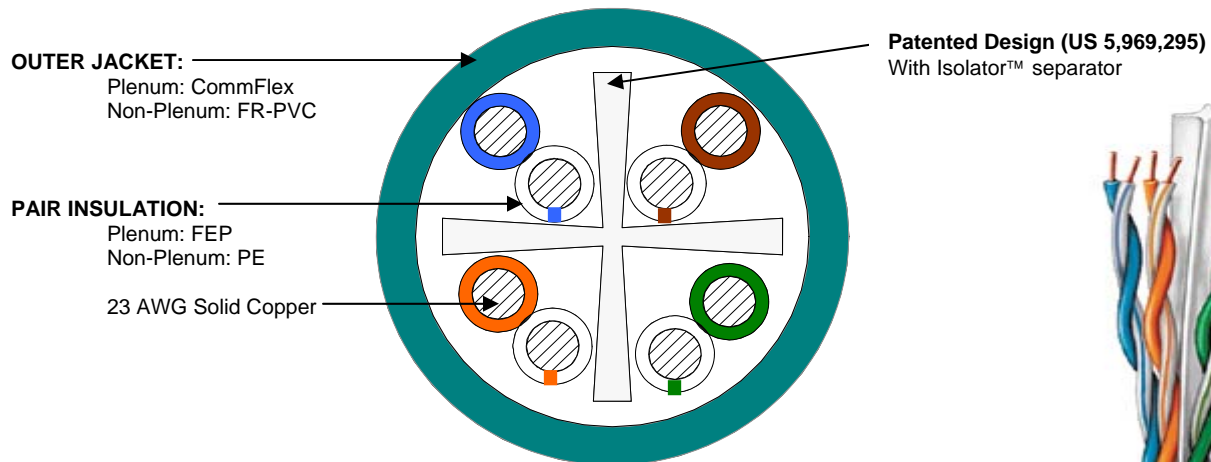
ISO/IEC 11801 Class E

Part Number: Plenum6ECMP/Non-Plenum6ECMR

Plenum: ETL Type CMP, CSA C(ETL)CMP

Non-Plenum: ETL Type CMR, CSA C(ETL)CMG

4 Twisted Pair Cable



Pair Identification

Pair 1	Blue/White w/Co-Extruded Blue Stripe on White Single
Pair 2	Orange/White w/Co-Extruded Orange Stripe on White Single
Pair 3	Green/White w/Co-Extruded Green Stripe on White Single
Pair 4	Brown/White w/Co-Extruded Brown Stripe on White Single

Mechanical Specification	Plenum	Non-Plenum
Nominal Jacket OD	0.250"	0.240"
Nominal Jacket Thickness	0.019"	0.024"
Jacket Minimum Spot Thickness	0.017"	0.018"
Maximum Pulling Tension	25 lbs	25 lbs
Installation Temperature 0°C to 60°C		
Operation Temperature -20°C to 60°C		

Available Packaging: Reel or Reel in a box

Available Colors: CommScope Green, White, Blue, Gray and Yellow



1100 CommScope Place SE
PO Box 1729
Hickory, NC 28603-1729

(800) 982-1708
(828) 324-2200
(828) 328-3400



Fax: (828) 323-4989
Int'l Fax: (828) 323-4989

www.commscope.com

UltraPipe[®] (Category 6e 550 MHz)

ANSI/TIA/EIA 568 Category 6

ISO/IEC 11801 Class E

Part Number: Plenum6ECMP/Non-Plenum6ECMR

Plenum: ETL Type CMP, CSA C(ETL)CMP

Non-Plenum: ETL Type CMR, CSA C(ETL)CMG

Electrical Performance

Frequency MHz	Attenuation (dB/100m)		Near End Cross Talk (dB)		ACR (dB) Min	Power Sum (dB)			ELFEXT (dB) Min	Return Loss (dB)	
	CommScope Max	EIA/TIA 568 Category 6	CommScope Min	EIA/TIA 568 Category 6		NEXT Min	ELFEXT Min	ACR Min		CommScope Min	EIA/TIA 568 Category 6
1.0	2.0	2.0	81.3	74.3	79.3	78.3	70.8	76.3	74.8	23.0	20.0
4.0	3.7	3.8	72.3	65.3	68.6	69.3	58.8	65.5	62.8	23.6	23.0
8.0	5.2	5.3	67.8	60.8	62.6	64.8	52.7	57.5	56.7	25.4	24.5
10.0	5.8	6.0	66.3	59.3	60.5	63.3	50.8	57.4	54.8	26.0	25.0
16.0	7.3	7.6	63.2	56.2	55.9	60.3	46.7	52.8	50.7	26.0	25.0
20.0	8.2	8.5	61.8	54.8	53.6	58.8	44.8	50.5	48.8	26.0	25.0
25.0	9.2	9.5	60.3	53.3	51.2	57.3	42.8	48.0	46.8	25.5	24.3
31.25	10.3	10.7	58.9	51.9	48.6	55.9	40.9	45.4	44.9	25.0	23.6
62.5	14.8	15.4	54.4	47.4	39.6	51.4	34.9	36.5	38.9	23.5	21.5
100.0	19.0	19.8	51.3	44.3	32.3	48.3	30.8	29.3	34.8	23.0	20.1
155.0	24.1	25.2	48.4	41.4	24.4	45.5	27.0	21.5	31.0	21.6	18.8
200.0	27.7	29.0	46.8	39.8	19.1	43.8	24.8	16.4	28.8	21.0	18.0
250.0	31.3	32.8	45.3	38.3	14.0	42.3	22.8	11.5	26.8	18.3	17.3
350.0	37.8	NA	43.1	NA	5.3	40.2	19.9	3.2	23.9	17.3	NA
400.0	40.8	NA	42.3	NA	1.5	39.3	18.8	NA	22.8	16.9	NA
550.0	49.0	NA	40.2	NA	NA	37.2	16.0	NA	20.0	15.9	NA

(All tests include swept frequency measurements)

Input Impedance	100 ohms ± 15 ohms 1-100 MHz	100 – 200 MHz ± 22 ohms 200 – 300 MHz ± 32 ohms
Capacitance	4.6 nF/100m nominal	
DC Resistance/Unbalance	6.66 ohms/100m Max/ 2.5% Max	
Dielectric Breakdown	2500 Volts DC Conductor to Conductor	
Propagation Delay	5.4nSec/m Max @ 10MHz	
Propagation Delay Skew, Max @ 10 MHz	Plenum: 25 ns Non-Plenum: 20 ns	
Nominal Velocity of Propagation, NVP	Plenum: 71% Non-Plenum: 68%	

