CommScope®
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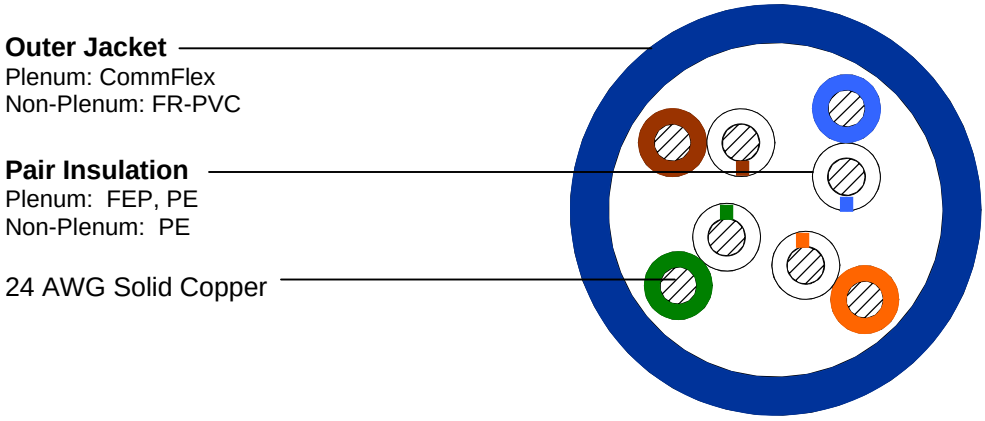
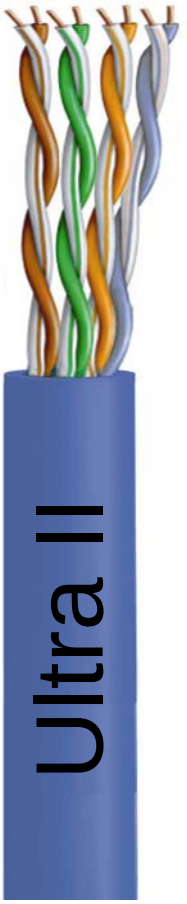
ISO9001 REGISTERED

Ultra II (Category 5e Enhanced 350 MHz)

ANSI/TIA/EIA 568
ISO/IEC 11801
Part Number: Plenum5504M/Non-Plenum55N4R
Plenum: ETL Type CMP, CSA C(ETL)CMP
Non-Plenum: ETL Type CMR, CSA C(ETL)CMR
ETL Verified Electrical Performance

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	0.195”	0.210”
Nominal Jacket Thickness	0.017”	0.022”
Jacket Minimum Spot Thickness	0.015”	0.018”
Installation Temperature 0°C to 60°C		
Operation Temperature -20°C to 60°C		

Available Packaging: Box or Reel
Available Colors:

Plenum	White, Blue, Yellow, Pink, Gray
Non-Plenum	White, Blue, Yellow, Pink, Gray

RoHS COMPLIANT

Drawings not to Scale
Specifications subject to change
Revision: 06/01/06

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Electrical Performance

Frequency MHz	Attenuation (dB/100m)		Near End Cross Talk (dB)		ACR (dB) Min/Avg	Power Sum (dB)			ELFEXT (dB/100m) Min	Return Loss (dB)	
	CommScope Max/Avg.	EIA/TIA 568 Category 5e	CommScope Min/Avg	EIA/TIA 568 Category 5e		NEXT Min	ELFEXT Min (dB/100m)	ACR Min		CommScope Min	EIA/TIA 568 Category 5e
.772	1.8/1.6	1.8	72.0/81	67.0	69.0/79	68.0	67.0	66.0	69.0	23.0	19.4
1.0	2.0/1.7	2.0	70.3/79	65.3	68.3/77	68.3	65.8	66.3	67.8	23.0	20.0
4.0	3.9/3.6	4.1	61.3/72	56.3	57.3/68	59.3	53.7	55.3	55.8	23.3	23.0
8.0	5.6/5.2	5.8	56.8/68	51.8	51.2/63	54.8	47.7	49.2	49.7	25.0	24.5
10.0	6.2/5.9	6.5	55.3/67	50.3	49.1/61	53.3	45.8	47.1	47.8	25.5	25.0
16.0	7.9/7.4	8.2	52.2/64	47.3	44.3/57	50.2	41.7	42.3	43.7	25.5	25.0
20.0	8.9/8.4	9.3	50.8/63	45.8	41.9/55	48.8	39.7	39.9	41.8	25.5	25.0
25.0	10.0/9.4	10.4	49.3/61	44.3	39.3/52	47.3	37.8	37.3	39.8	24.9	24.3
31.25	11.3/10.5	11.7	47.9/60	42.9	36.6/50	45.9	35.9	34.6	37.9	24.4	23.6
62.5	16.3/15.3	17.0	43.4/56	38.4	27.1/41	41.4	29.8	25.1	31.9	23.0	21.5
100.0	21.0/19.7	22.0	40.3/53	35.3	19.3/33	38.3	25.8	17.3	27.8	23.0	20.1
155.0	26.8/25.0	NS	37.4/51	NS	10.7/26	35.4	21.9	8.7	24.0	20.4	NS
200.0	30.9/28.8	NS	35.8/48	NS	4.9/19	33.8	19.7	2.9	21.8	19.8	NS
250.0	35.0/32.4	NS	34.3/47	NS	-0.7/15	32.3	17.8	-2.7	19.8	19.2	NS
300.0	38.9/35.9	NS	33.1/46	NS	-5.8/10	31.1	16.2	-7.8	18.3	16.8	NS
350.0	42.6/39.3	NS	32.1/43	NS	-10.4/4	30.1	14.9	-12.4	16.9	16.3	NS

(All tests include swept frequency measurements)

Input Impedance	100 ohms ± 15 ohms ± 22 ohms	0.772 ≤ freq ≤ 100 100 < freq ≤ 200
Capacitance	4.6 nF/100m nominal	
DC Resistance/Unbalance	9.38 ohms/100m Max/ 2.5% Max	
Nom. Velocity of Propagation	Plenum: 71% Non-Plenum: 68%	
Dielectric Breakdown	2500 Volts DC Conductor to Conductor	
Propagation Delay	4.59nSec/m Max @ 10MHz	
Propagation Delay Skew	10nSec/100m Max 5504M	15nSec/100m Max 55N4R

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