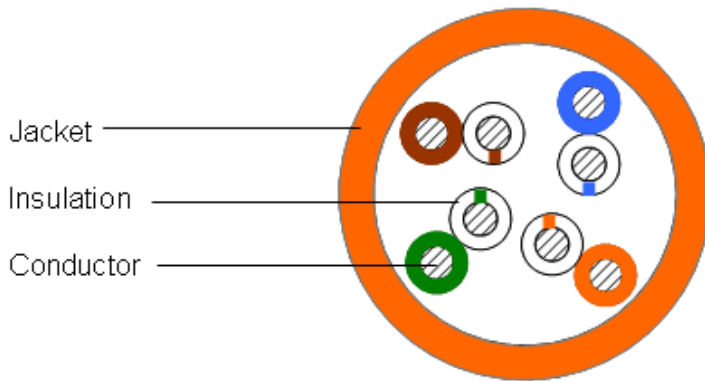


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Ultra II® 5504M ETL Verified Category 5e U/UTP Cable, plenum, orange jacket, 4 pair count, 1000 ft (305 m) length, CommPak

## Cross Section Drawing



## Construction Materials

Jacket Material	PVC
Conductor Material	Bare copper
Insulation Material	FEP   Polyolefin

## Dimensions

Cable Length	305 m   1000 ft
Cable Weight	22.33 lb/kft
Diameter Over Jacket	4.902 mm   0.193 in
Jacket Thickness	0.483 mm   0.019 in

## Electrical Specifications

ANSI/TIA Category	5e
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew, maximum	15 ns
Mutual Capacitance	4.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	72 %
Operating Frequency, maximum	350 MHz
Transmission Standards	ANSI/TIA-568-C.2   CENELEC EN 50288-3-1   ISO/IEC 11801 Class D
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac   2500 Vdc
Note	All electrical transmission tests include swept frequency measurements

## Environmental Specifications

Environmental Space	Plenum
Flame Test Method	CMP
Installation Temperature	0 °C to +60 °C (+32 °F to +140 °F)
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Smoke Test Method	CMP

## General Specifications

Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	CommPak® box

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Brand	Ultra II®   Uniprise®
Jacket Color	Orange
Product Number	5504M
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8

## Mechanical Specifications

Pulling Tension, maximum	11 kg   25 lb
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## Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



## Electrical Performance

CS	CommScope
Std	Refers to the standard value listed under Transmission Standards in the Electrical Specifications above
Typ	Typical
IL	Insertion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (db/100m)
PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
RL	Return Loss (dB)

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL		
	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ
1	2.0	2.0	1.8	70.3	65.3	85.0	68.3	63.3	83.1	68.3	62.3	82.6	66.3	60.3	80.8	67.8	63.8	79.8	65.8	60.8	78.0	20.0	20.0	34.8
4	3.9	4.1	3.7	61.3	56.3	75.9	57.3	52.2	72.2	59.3	53.3	73.4	55.3	49.2	69.7	55.8	51.8	68.1	53.8	48.8	66.3	23.3	23.0	35.1
8	5.6	5.8	5.3	56.8	51.8	70.8	51.2	46.0	65.6	54.8	48.8	68.5	49.2	43.0	63.3	49.7	45.7	62.2	47.7	42.7	60.5	25.0	24.5	35.9
10	6.2	6.5	5.9	55.3	50.3	69.7	49.1	43.8	63.8	53.3	47.3	67.4	47.1	40.8	61.5	47.8	43.8	60.3	45.8	40.8	58.5	25.5	25.0	36.8
16	7.9	8.2	7.6	52.2	47.2	66.3	44.3	39.0	58.7	50.2	44.2	64.0	42.3	36.0	56.4	43.7	39.7	56.3	41.7	36.7	54.5	25.5	25.0	37.9
20	8.9	9.3	8.5	50.8	45.8	64.8	41.9	36.5	56.3	48.8	42.8	62.4	39.9	33.5	53.9	41.8	37.8	54.4	39.8	34.8	52.5	25.5	25.0	37.6
25	10.0	10.4	9.5	49.3	44.3	63.3	39.3	33.9	53.8	47.3	41.3	61.0	37.3	30.9	51.5	39.8	35.8	52.5	37.8	32.8	50.6	24.8	24.3	37.9
31.25	11.3	11.7	10.7	47.9	42.9	61.8	36.6	31.2	51.2	45.9	39.9	59.5	34.6	28.2	48.9	37.9	33.9	50.5	35.9	30.9	48.6	24.1	23.6	37.7
62.5	16.3	17.0	15.3	43.4	38.4	57.3	27.1	21.4	42.0	41.4	35.4	55.1	25.1	18.4	39.7	31.9	27.9	44.4	29.9	24.9	42.5	22.0	21.5	33.5
100	21.0	22.0	19.6	40.3	35.3	54.5	19.3	13.3	34.9	38.3	32.3	52.1	17.3	10.3	32.5	27.8	23.8	40.4	25.8	20.8	38.4	20.6	20.1	31.0
155	26.8		24.8	37.4		51.2	10.7		26.4	35.4		49.0	8.7		24.1	24.0		36.7	22.0		34.7	19.3		28.9
200	30.9		28.4	35.8		48.9	4.9		20.4	33.8		46.6	2.9		18.2	21.8		34.2	19.8		32.2	18.5		28.6
250	35.0		32.0	34.3		47.4	-0.7		15.4	32.3		45.1	-2.7		13.1	19.8		32.0	17.8		30.0	17.8		28.0
300	38.9		35.3	33.1		45.8	-5.8		10.5	31.1		43.5	-7.8		8.2	18.3		30.1	16.3		28.2	17.3		28.1
350	42.6		38.4	32.1		44.1	-10.4		5.7	30.1		41.9	-12.4		3.5	16.9		28.4	14.9		26.5	16.8		27.4