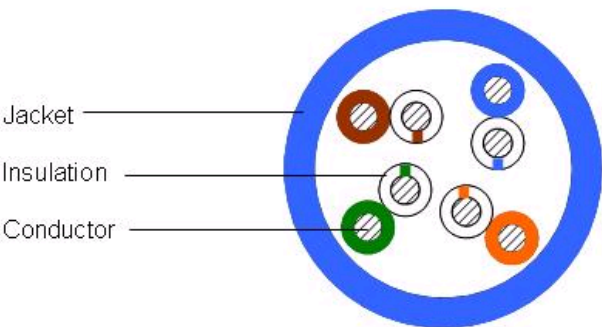




4196984/30 | 5504M BLUE REEL 3K

Ultra II® 5504M ETL Verified Category 5e U/UTP Cable, plenum, blue jacket, 4 pair count, 3000 ft (914 m) length, reel

Cross Section Drawing



Construction Materials

Conductor Material	Bare copper
Insulation Material	FEP Polyolefin
Jacket Material	PVC

Dimensions

Cable Length	914 m 3000 ft
Cable Length Tolerance	±5%
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
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	9.38 ohms/100 m
Delay Skew	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

Brand	Ultra II® Uniprise®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Color	Blue
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Packaging Type	Reel
Product Number	5504M

Mechanical Specifications

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

Agency	Classification
RoHS 2002/95/EC	Compliant
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Electrical Performance

CS	CommScope				
Std	Standard (ANSI/TIA-568)				
Typ	Typical				
IL	Insertion Loss (dB/100m)			PSACR	Power Sum Attenuation to Crosstalk Ratio (dB/100m)
NEXT	Near End Crosstalk (dB/100m)			ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
ACR	Attenuation to Crosstalk Ratio (dB/100m)			PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
PSNEXT	Power Sum Near End Crosstalk (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