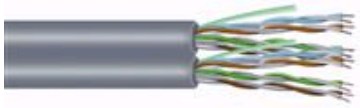
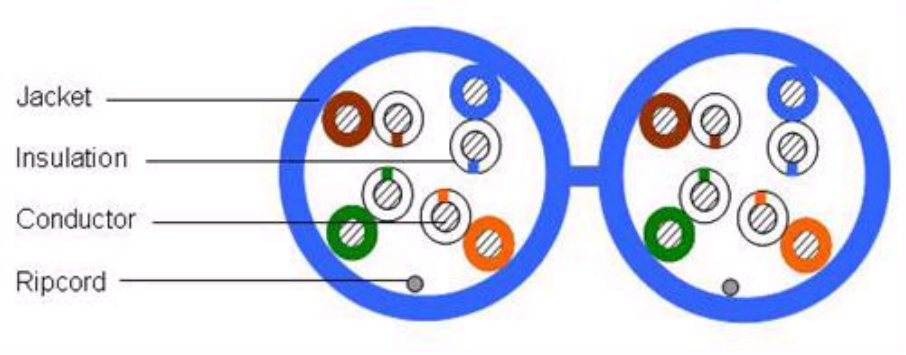
Product Specifications



4189704/10 | 5524M BLUE REEL

Ultra II® 5524M Category 5e U/UTP Cable, plenum, blue jacket, 8 pair count, 1000 ft (305 m) length, reel

Cross Section Drawing



Construction Materials

Conductor Material	Bare copper
Insulation Material	FEP
Jacket Material	PVC

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	44.83 lb/kft
Height Over Jacket	4.978 mm | 0.196 in
Jacket Thickness	0.457 mm | 0.018 in
Width Over Jacket	10.338 mm | 0.407 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)	71 %
Operating Frequency, maximum	350 MHz
Transmission Standards	ANSI/TIA-568-C.2 | CENELEC EN 50288-6-1 | ISO/IEC 11801 Class E
Safety Voltage Rating	300 V
Dielectric Strength, minimum	1500 Vac | 2500 Vdc
Note	All electrical transmission tests include swept frequency measurements

Product Specifications

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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)

General Specifications

Brand	Ultra II® | Uniprise®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	8
Jacket Color	Blue
Conductor Gauge, singles	24 AWG
Conductor Type, singles	Solid
Conductors, quantity	16
Packaging Type	Reel
Product Number	5524M

Mechanical Specifications

Pulling Tension, maximum	11 kg | 25 lb

Regulatory Compliance/Certifications

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

Product Specifications

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Electrical Performance

CS	CommScope
Std	Standard (ANSI/TIA-568)
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	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std	CS	Std
1	2.0	2.0	70.3	65.3	68.3	63.3	68.3	62.3	66.3	60.3	67.8	63.8	65.8	60.8	20.0	20.0
4	3.9	4.1	61.3	56.3	57.3	52.2	59.3	53.3	55.3	49.2	55.8	51.8	53.8	48.8	23.3	23.0
8	5.6	5.8	56.8	51.8	51.2	46.0	54.8	48.8	49.2	43.0	49.7	45.7	47.7	42.7	25.0	24.5
10	6.2	6.5	55.3	50.3	49.1	43.8	53.3	47.3	47.1	40.8	47.8	43.8	45.8	40.8	25.5	25.0
16	7.9	8.2	52.2	47.2	44.3	39.0	50.2	44.2	42.3	36.0	43.7	39.7	41.7	36.7	25.5	25.0
20	8.9	9.3	50.8	45.8	41.9	36.5	48.8	42.8	39.9	33.5	41.8	37.8	39.8	34.8	25.5	25.0
25	10.0	10.4	49.3	44.3	39.3	33.9	47.3	41.3	37.3	30.9	39.8	35.8	37.8	32.8	24.8	24.3
31.25	11.3	11.7	47.9	42.9	36.6	31.2	45.9	39.9	34.6	28.2	37.9	33.9	35.9	30.9	24.1	23.6
62.5	16.3	17.0	43.4	38.4	27.1	21.4	41.4	35.4	25.1	18.4	31.9	27.9	29.9	24.9	22.0	21.5
100	21.0	22.0	40.3	35.3	19.3	13.3	38.3	32.3	17.3	10.3	27.8	23.8	25.8	20.8	20.6	20.1
155	26.8		37.4		10.7		35.4		8.7		24.0		22.0		19.3	
200	30.9		35.8		4.9		33.8		2.9		21.8		19.8		18.5	
250	35.0		34.3		-0.7		32.3		-2.7		19.8		17.8		17.8	
300	38.9		33.1		-5.8		31.1		-7.8		18.3		16.3		17.3	
350	42.6		32.1		-10.4		30.1		-12.4		16.9		14.9		16.8	