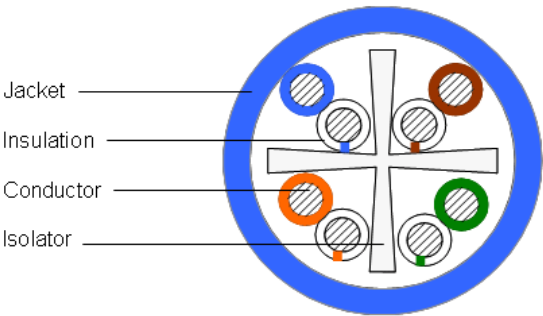




4763214/10 | 7504 BLUE CPK

UltraMedia® 7504 ETL Verified Category 6e U/UTP Cable, plenum, blue jacket, 4 pair count, 1000 ft (305 m) length CommPak

Cross Section Drawing



Construction Materials

Conductor Material	Bare copper
Insulation Material	FEP Polyolefin
Jacket Material	PVC
Separator Material	FEP

Dimensions

Cable Length	305 m 1000 ft
Cable Weight	28.52 lb/kft
Diameter Over Jacket	5.664 mm 0.223 in
Jacket Thickness	0.483 mm 0.019 in

Electrical Specifications

ANSI/TIA Category	6
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	6.66 ohms/100 m
Delay Skew	25 ns
Mutual Capacitance	5.4 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	74 %
Operating Frequency, maximum	400 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

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	UltraMedia® Uniprise®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Color	Blue

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Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Isolator
Packaging Type	CommPak® box
Product Number	7504

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



Product Specifications



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Electrical Performance

CS	CommScope	ACRF	Attenuation to Crosstalk Ratio - Far End (dB/100m)
Std	Standard (ANSI/TIA-568)	PSACRF	Power Sum Attenuation to Crosstalk Ratio - Far End (dB/100m)
Typ	Typical	RL	Return Loss (dB)
IL	Insertion Loss (dB/100m)	TCL	Transverse Conversion Loss (dB/100m)
NEXT	Near End Crosstalk (dB/100m)	ELTCTL	Equal Level Transverse Conversion Transfer Loss (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)		

Freq. MHz	IL			NEXT			ACR			PSNEXT			PSACR			ACRF			PSACRF			RL			TCL		ELTCTL	
	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	Typ	CS	Std	CS	Std
1	2.0	2.0	2.1	77.3	74.3	92.6	75.3	72.3	90.5	75.3	72.3	90.7	73.3	70.3	88.6	68.8	67.8	85.1	65.8	64.8	83.8	20.0	20.0	34.5	40.0	40.0	35.0	35.0
4	3.8	3.8	3.9	68.3	65.3	85.0	64.5	61.5	81.1	66.3	63.3	82.9	62.5	59.5	79.0	56.8	55.8	73.3	53.8	52.8	72.1	23.6	23.0	33.1	40.0	40.0	23.0	23.0
8	5.3	5.3	5.3	63.8	60.8	80.8	58.5	55.4	75.5	61.8	58.8	78.7	56.5	53.4	73.3	50.7	49.7	67.5	47.7	46.7	66.3	25.4	24.5	34.4	40.0	40.0	16.9	16.9
10	5.9	6.0	6.0	62.3	59.3	79.2	56.4	53.3	73.2	60.3	57.3	77.1	54.4	51.3	71.1	48.8	47.8	65.5	45.8	44.8	64.3	26.0	25.0	35.7	40.0	40.0	15.0	15.0
16	7.5	7.6	7.5	59.2	56.2	76.3	51.7	48.7	68.8	57.2	54.2	74.0	49.7	46.7	66.5	44.7	43.7	61.5	41.7	40.7	60.2	26.0	25.0	35.7	38.0	38.0	10.9	10.9
20	8.4	8.5	8.4	57.8	54.8	74.6	49.4	46.3	66.2	55.8	52.8	72.4	47.4	44.3	64.1	42.8	41.8	59.6	39.8	38.8	58.3	26.0	25.0	37.0	37.0	37.0	9.0	9.0
25	9.4	9.5	9.4	56.3	53.3	73.0	46.9	43.8	63.7	54.3	51.3	70.9	44.9	41.8	61.5	40.8	39.8	57.6	37.8	36.8	56.3	25.3	24.3	38.1	36.0	36.0	7.0	7.0
31.25	10.6	10.7	10.5	54.9	51.9	71.7	44.3	41.2	61.2	52.9	49.9	69.6	42.3	39.2	59.1	38.9	37.9	55.6	35.9	34.9	54.3	24.6	23.6	38.2	35.1	35.1		
62.5	15.3	15.4	14.9	50.4	47.4	66.2	35.1	32.0	51.3	48.4	45.4	64.1	33.1	30.0	49.2	32.9	31.9	49.3	29.9	28.9	48.1	22.5	21.5	36.6	32.0	32.0		
100	19.7	19.8	19.0	47.3	44.3	63.5	27.6	24.5	44.5	45.3	42.3	61.3	25.6	22.5	42.4	28.8	27.8	44.9	25.8	24.8	43.8	21.1	20.1	33.6	30.0	30.0		
155	25.0	25.2	23.9	44.4	41.4	61.3	19.5	16.3	37.4	42.4	39.4	58.8	17.5	14.3	35.0	25.0	24.0	40.8	22.0	21.0	39.7	19.8	18.8	32.0	28.1	28.1		
200	28.8	29.0	27.3	42.8	39.8	58.9	14.0	10.8	31.6	40.8	37.8	56.9	12.0	8.8	29.6	22.8	21.8	38.6	19.8	18.8	37.5	19.0	18.0	31.1	27.0	27.0		
250	32.6	32.8	30.7	41.3	38.3	56.8	8.7	5.5	26.1	39.3	36.3	54.8	6.7	3.5	24.1	20.8	19.8	36.6	17.8	16.8	35.5	18.3	17.3	30.6	26.0	26.0		
300	36.2		33.9	40.1		55.4	4.0		21.5	38.1		53.5	2.0		19.6	19.3		34.8	16.3		33.7	17.8		30.7				
350	39.5		36.8	39.1		54.3	-0.4		17.5	37.1		52.3	-2.4		15.5	17.9		33.4	14.9		32.1	17.3		31.1				
400	42.7		39.4	38.3		53.0	-4.4		13.5	36.3		51.1	-6.4		11.6	16.8		32.1	13.8		30.8	16.9		32.5				
500			44.7			50.7			6.0			48.7			4.0			28.9			27.6			33.8				
550			44.9			50.9			6.0			48.8			3.9			28.7			27.3			33.6				