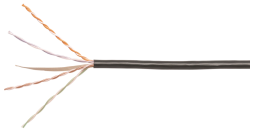
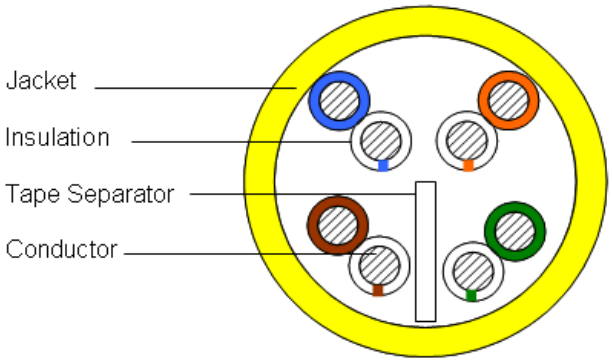
Product Specifications



8773914/10 | 6504+ YELLOW CPK

Media 6® 6504+ Category 6 U/UTP Cable, plenum, yellow 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
Separator Material	FEP

Dimensions

Cable Length	305 m | 1000 ft
Cable Weight	28.00 lb/kft
Diameter Over Jacket	5.461 mm | 0.215 in
Jacket Thickness	0.483 mm | 0.019 in

Electrical Specifications

ANSI/TIA Category	6
Characteristic Impedance	100 ohm
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	6.66 ohms/100 m
Delay Skew, maximum	45 ns
Mutual Capacitance	5.6 nF/100 m @ 1 kHz
Nominal Velocity of Propagation (NVP)	73 %
Operating Frequency, maximum	250 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

Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Cable Component Type	Horizontal
Packaging Type	CommPak® box
Brand	Media 6® | Uniprise®
Jacket Color	Yellow
Product Number	6504+

Product Specifications

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Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Tape separator

Mechanical Specifications

Pulling Tension, maximum	11 kg | 25 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	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	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)
TCL	Transverse Conversion Loss (dB/100m)
ELTCTL	Equal Level Transverse Conversion Transfer Loss (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	1.8	74.3	74.3	89.3	72.3	72.3	87.6	72.3	72.3	87.0	70.3	70.3	85.3	67.8	67.8	84.3	64.8	64.8	82.4	20.0	20.0	34.0	40.0	40.0	35.0	35.0
4	3.8	3.8	3.5	65.3	65.3	80.0	61.5	61.5	76.5	63.3	63.3	77.7	59.5	59.5	74.1	55.8	55.8	72.6	52.8	52.8	70.8	23.0	23.0	33.9	40.0	40.0	23.0	23.0
8	5.3	5.3	5.0	60.8	60.8	75.5	55.4	55.4	70.5	58.8	58.8	73.2	53.4	53.4	68.2	49.7	49.7	66.8	46.7	46.7	64.9	24.5	24.5	35.5	40.0	40.0	16.9	16.9
10	6.0	6.0	5.6	59.3	59.3	73.9	53.3	53.3	68.3	57.3	57.3	71.5	51.3	51.3	65.9	47.8	47.8	64.9	44.8	44.8	63.0	25.0	25.0	36.5	40.0	40.0	15.0	15.0
16	7.6	7.6	7.2	56.2	56.2	70.6	48.7	48.7	63.4	54.2	54.2	68.3	46.7	46.7	61.1	43.7	43.7	60.8	40.7	40.7	58.9	25.0	25.0	37.6	38.0	38.0	10.9	10.9
20	8.5	8.5	8.1	54.8	54.8	69.2	46.3	46.3	61.2	52.8	52.8	66.9	44.3	44.3	58.8	41.8	41.8	58.9	38.8	38.8	56.9	25.0	25.0	38.2	37.0	37.0	9.0	9.0
25	9.5	9.5	9.0	53.3	53.3	67.6	43.8	43.8	58.6	51.3	51.3	65.3	41.8	41.8	56.2	39.8	39.8	57.0	36.8	36.8	55.0	24.3	24.3	38.2	36.0	36.0	7.0	7.0
31.25	10.7	10.7	10.1	51.9	51.9	66.3	41.2	41.2	56.1	49.9	49.9	63.9	39.2	39.2	53.8	37.9	37.9	55.0	34.9	34.9	53.0	23.6	23.6	38.3	35.1	35.1		
62.5	15.4	15.4	14.5	47.4	47.4	61.4	32.0	32.0	46.9	45.4	45.4	59.0	30.0	30.0	44.5	31.9	31.9	48.9	28.9	28.9	46.9	21.5	21.5	34.7	32.0	32.0		
100	19.8	19.8	18.6	44.3	44.3	58.1	24.5	24.5	39.5	42.3	42.3	55.7	22.5	22.5	37.1	27.8	27.8	44.7	24.8	24.8	42.8	20.1	20.1	31.6	30.0	30.0		
155	25.2	25.2	23.5	41.4	41.4	55.7	16.3	16.3	32.2	39.4	39.4	53.0	14.3	14.3	29.5	24.0	24.0	41.0	21.0	21.0	39.0	18.8	18.8	29.6	28.1	28.1		
200	29.0	29.0	26.9	39.8	39.8	52.6	10.8	10.8	25.7	37.8	37.8	50.4	8.8	8.8	23.4	21.8	21.8	38.6	18.8	18.8	36.7	18.0	18.0	29.3	27.0	27.0		
250	32.8	32.8	30.3	38.3	38.3	50.8	5.5	5.5	20.5	36.3	36.3	48.6	3.5	3.5	18.3	19.8	19.8	36.5	16.8	16.8	34.7	17.3	17.3	28.8	26.0	26.0		
300			33.5			49.0			15.6			46.8			13.4			34.5			32.6			28.9				
350			36.4			47.6			11.2			45.4			9.0			33.0			31.0			29.0				
400			39.0			46.3			7.3			44.1			5.1			31.3			29.3			30.3				
500			44.3			43.2			-1.1			41.2			-3.1			27.3			25.5			31.0				
550			44.6			43.1			-1.5			41.2			-3.5			27.4			25.5			31.0				
650			51.3			40.2			-11.1			38.4			-12.9			22.3			20.4			25.0				