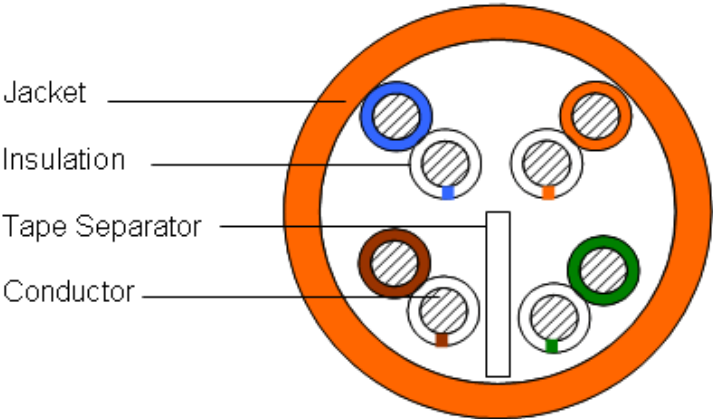




8774004/10 | 6504+ ORANGE REEL
Media 6® 6504+ Category 6 U/UTP Cable, plenum, orange jacket, 4 pair count, 1000 ft (305 m) length, reel

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	28.00 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
dc Resistance Unbalance, maximum	5 %
dc Resistance, maximum	6.66 ohms/100 m
Delay Skew	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

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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	Media 6® Uniprise®
Cable Component Type	Horizontal
Cable Type	U/UTP (unshielded)
Pairs, quantity	4
Jacket Color	Orange
Conductor Gauge, singles	23 AWG
Conductor Type, singles	Solid
Conductors, quantity	8
Separator Type	Tape separator
Packaging Type	Reel
Product Number	6504+

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

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

Freq. MHz	IL		NEXT		ACR		PSNEXT		PSACR		ACRF		PSACRF		RL		TCL	ELTCTL
	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Typ	Std	Std
1	2.0	1.8	74.3	89.3	72.3	87.6	72.3	87.0	70.3	85.3	67.8	84.3	64.8	82.4	20.0	34.0	40.0	35.0
4	3.8	3.5	65.3	80.0	61.5	76.5	63.3	77.7	59.5	74.1	55.8	72.6	52.8	70.8	23.0	33.9	40.0	23.0
8	5.3	5.0	60.8	75.5	55.4	70.5	58.8	73.2	53.4	68.2	49.7	66.8	46.7	64.9	24.5	35.5	40.0	16.9
10	6.0	5.6	59.3	73.9	53.3	68.3	57.3	71.5	51.3	65.9	47.8	64.9	44.8	63.0	25.0	36.5	40.0	15.0
16	7.6	7.2	56.2	70.6	48.7	63.4	54.2	68.3	46.7	61.1	43.7	60.8	40.7	58.9	25.0	37.6	38.0	10.9
20	8.5	8.1	54.8	69.2	46.3	61.2	52.8	66.9	44.3	58.8	41.8	58.9	38.8	56.9	25.0	38.2	37.0	9.0
25	9.5	9.0	53.3	67.6	43.8	58.6	51.3	65.3	41.8	56.2	39.8	57.0	36.8	55.0	24.3	38.2	36.0	7.0
31.25	10.7	10.1	51.9	66.3	41.2	56.1	49.9	63.9	39.2	53.8	37.9	55.0	34.9	53.0	23.6	38.3	35.1	
62.5	15.4	14.5	47.4	61.4	32.0	46.9	45.4	59.0	30.0	44.5	31.9	48.9	28.9	46.9	21.5	34.7	32.0	
100	19.8	18.6	44.3	58.1	24.5	39.5	42.3	55.7	22.5	37.1	27.8	44.7	24.8	42.8	20.1	31.6	30.0	
155	25.2	23.5	41.4	55.7	16.3	32.2	39.4	53.0	14.3	29.5	24.0	41.0	21.0	39.0	18.8	29.6	28.1	
200	29.0	26.9	39.8	52.6	10.8	25.7	37.8	50.4	8.8	23.4	21.8	38.6	18.8	36.7	18.0	29.3	27.0	
250	32.8	30.3	38.3	50.8	5.5	20.5	36.3	48.6	3.5	18.3	19.8	36.5	16.8	34.7	17.3	28.8	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		