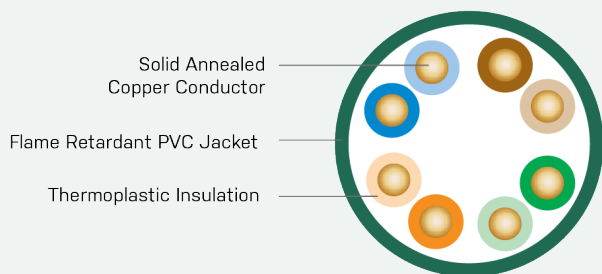
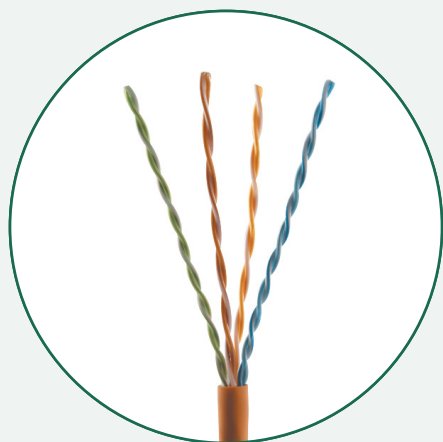


Category 6 500MHz UTP

U6500-004-xxxx



Description

- Provides reliable performance for jobs that require standards-compliant Category 6 cable at a cost-effective price
- Capable of handling full broadband and baseband video signals
- Tight balance requirements improve cable performance
- Meets ANSI/TIA-568.2-D Category 6 performance requirements
- Dual length marketing in feet and meters from 1000 ft (305 m) to 0 ft (0 m)
- Lightweight, easy-pull design simplifies installation

Application

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) — IEEE 802.3bt Type 1 to 4
- ATM and token ring

Certifications



Part Numbers

JACKET COLOR*	DESCRIPTION	
	Category 6 UTP Cable, Non X-filler 4-Pair, Riser Rated	Category 6 UTP Cable, Non X-filler 4-Pair, Plenum Rated
Blue	U6500-004-RBL2	U6500-004-PBL2
White	U6500-004-RWH2	U6500-004-PWH2
Grey	U6500-004-RGY2	U6500-004-PGY2
Black	U6500-004-RBK2	U6500-004-PBK2
Yellow	U6500-004-RYL2	U6500-004-PYL2
Green	U6500-004-RGN2	U6500-004-PGN2
Red	U6500-004-RRD2	U6500-004-PRD2
Orange	U6500-004-ROR2	U6500-004-POR2
Violet	U6500-004-RV12	U6500-004-PV12

*Other jacket colors available upon request with leadtime and minimum order quantities

Packaging Key

	150 ft Coil	200 ft Coil	250 ft Coil	300 ft Coil	1,000 ft POP Box	1,000 ft BrakeBox	1,000 ft Plywood Reel	2,500 ft Plywood Reel
Replace "xxx" with	225	229	230	231	240	246	272	273
Packages per Pallet	120	120	144	120	36	27	16	12

Performance Characteristics

Meet or exceed TIA-568-C.2 Category 6 requirements

FREQUENCY ¹ (MHZ)	INSERTION LOSS @ 20°C MAXIMUM dB/100 m		NEXT MINIMUM dB/100 m		ACR MINIMUM dB/100 m		PSNEXT MINIMUM dB/100 m	
	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	25.6	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

FREQUENCY ¹ (MHZ)	PSACR MINIMUM dB/100 m		RETURN LOSS MINIMUM dB/100 m		ELFEXT MINIMUM dB/100 m		PSELFEXT MINIMUM dB/100 m	
	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	25.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	225.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	78.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

¹Value above 550Mhz are for informational purposes only

Technical Details

ITEM	UNIT	CMR (RISER)	CMP (PLENUM)	
Conductor DC Resistance	Max. Ohms/100 m	9.38	9.38	
Resistance Unbalance	Max. %	5	5	
Mutual Capacitance	Max. nF/100 m	5.6	5.6	
Capacitance Unbalance	Max. pF/100 m	330	330	
Delay Skew	Max. ns	45	45	
Nominal Velocity of Propagation	%	70	73	
Operating Temperature	°F (°C)	-4 to +140 (-20 to +60)	-4 to +140 (-20 to +60)	
Storage Temperature	°F (°C)	-4 to +176 (-20 to +80)	-4 to +176 (-20 to +80)	
Bending Radius		4 x Cable diameter	4 x Cable diameter	
Packaging:	Type	Coil, Reel, or Box	Coil, Reel, or Box	
	Weight	lb/kft (kg/km)	22 (33)	23 (34)
	Packages Per Pallet		Use packaging key	Use packaging key
Materials:	Conductors	23 AWG, Solid annealed copper	23 AWG, Solid annealed copper	
	Insulation	Polyolefin	Fluoropolymer (FEP)	
	Jacket	Flame retardant PVC	Low smoke PVC (Plenum Rated)	
Approvals:	Nominal Diameter	in (mm)	0.21 (5.3)	0.20 (5.1)
	Safety		UL 444, UL 1666, CSA C22.2 No. 214-08	UL 444, NFPA 262, CSA C22.2 No. 214-08
	Performance		ANSI/TIA-568.2-D	