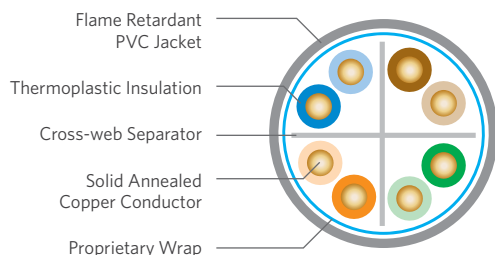


10Gain® Category 6A

CMR/CMP



SPECIFICATIONS

Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Core Wrap	Proprietary construction
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Velocity of Propagation %	CMR: 66 CMP: 71
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568.2-D Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6A UL Listed CMR-LP (0.5) c(UL) Listed CMR UL Listed CMP-LP (0.5) c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

This CAT 6A cable meets or exceeds all industry requirements including ANSI/TIA-568.2-D. The cable utilizes a proprietary core wrap which assures excellent alien crosstalk performance. This cable fully complies with UL 444 requirements for an unshielded twisted pair product.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) - IEEE 802.3bt Type 1 to 4
- ATM and token ring
- Backward compatible to legacy protocols and applications
- HDBaseT Class A and B

FEATURES

- UL Certified Environmental Product Declaration (EPD)
- Health Product Declaration™ (HPD™)
- Multi-Attribute Certification by GreenCircle Certified, LLC
- Guaranteed 1 dB AXT margin
- UL Verified CAT 6A
- Tested to 650 MHz
- Nominal 0.275 (CMR)/0.250 (CMP) inch diameter
- Proprietary core wrap
- CableID® alpha numeric code printed every 2 feet
- QuickCount® marking system in feet and meters
- ColorTip™ circuit identification system

BENEFITS

- Contributes toward 1 LEED credit under the Material and Resources credit (MRc)
- Contributes toward 1 LEED credit under the MRc
- Offers an overview of the sustainability of a product, its packaging and manufacturing
- Guaranteed AXT performance in virtually any installation environment
- Assures consistent worry-free performance
- Assures ample bandwidth headroom
- Higher cable density, smaller bend radius and lowers installation costs
- Provides substantially more AXT protection without grounding or bonding
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6A-246-xA	0.285 (7.24)	31 (47)	1,000' BrakeBox®	12
CMR	6A-272-xA	0.285 (7.24)	31 (47)	1,000' Reel	20
CMP	6A-246-xB	0.275 (6.99)	34 (50)	1,000' BrakeBox®	12
CMP	6A-272-xB	0.275 (6.99)	34 (50)	1,000' Reel	20

JACKET COLORS

¹Replace "x" with: Blue = 2 Gray = 3 White = 4 Green = 5 Yellow = 6 Purple = 7 Red = 9 Orange = D

ELECTRICAL SPECIFICATIONS

Frequency MHz	Insertion Loss @ 20°C Maximum dB/100 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m		PSACR Minimum dB/100 m	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
1	2.1	2.0	74.3	78.3	72.2	77.3	72.3	77.3	70.2	76.3
4	3.8	3.7	65.3	69.3	61.5	66.6	63.3	68.3	59.5	65.6
8	5.3	5.1	60.8	64.8	55.4	60.6	58.8	63.8	53.4	59.6
10	5.9	5.7	59.3	63.3	53.4	58.6	57.3	62.3	51.4	57.6
16	7.5	7.3	56.2	60.2	48.8	54.0	54.2	59.2	46.8	53.0
20	8.4	8.1	54.8	58.8	46.4	51.7	52.8	57.8	44.4	51.2
25	9.4	9.1	53.3	57.3	44.0	49.7	51.3	56.3	42.0	49.0
31.25	10.5	10.2	51.9	55.9	41.4	47.2	49.9	54.9	39.4	46.7
62.5	15.0	14.4	47.4	51.4	32.4	39.0	45.4	50.4	30.4	38.4
100	19.1	18.4	44.3	48.3	25.2	32.4	42.3	47.3	23.2	31.7
200	27.6	26.5	39.8	43.8	12.2	20.1	37.8	42.8	10.2	19.5
250	31.1	29.8	38.3	42.3	7.3	15.5	36.3	41.3	5.3	15.1
300	34.3	32.9	37.1	41.1	2.9	11.4	35.1	40.1	0.9	10.8
400	40.1	38.3	35.3	39.3		4.6	33.3	38.3		3.6
500	45.3	43.0	33.8	37.8			31.8	36.8		
600		47.5		36.4				35.6		
650		49.7		35.9				35.1		
700		51.4		35.5				34.6		
750		53.3		35.1				34.2		

Frequency MHz	Return Loss Minimum dB/100 m		ACRF Minimum dB/100 m		PSACRF Minimum dB/100 m		PSANEXT Minimum dB/100 m		PSAACRF Minimum dB/100 m	
	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical
1	20.0	22.0	67.8	73.8	64.8	70.8	68.0	96.5	68.0	80.0
4	23.0	25.0	55.8	61.8	52.8	58.8	68.0	87.5	67.2	79.2
8	24.5	26.5	49.7	55.7	46.7	52.7	68.0	83.0	61.1	73.1
10	25.0	27.0	47.8	53.8	44.8	50.8	68.0	81.5	59.2	71.2
16	25.0	27.0	43.7	49.7	40.7	46.7	68.0	80.0	55.1	67.1
20	25.0	27.0	41.8	47.8	38.8	44.8	68.0	80.0	53.2	65.2
25	24.3	26.3	39.8	45.8	36.8	42.8	68.0	80.0	51.2	63.2
31.25	23.6	25.6	37.9	43.9	34.9	40.9	68.0	80.0	49.3	61.3
62.5	21.5	23.5	31.9	37.9	28.9	34.9	66.6	78.6	43.3	55.3
100	20.1	22.1	27.8	33.8	24.8	30.8	63.5	75.5	39.2	51.2
200	18.0	20.0	21.8	27.8	18.8	24.8	59.0	71.0	33.2	45.2
250	17.3	19.3	19.8	25.8	16.8	22.8	57.5	69.5	31.2	43.2
300	16.8	18.8	18.3	24.3	15.3	21.3	56.3	68.3	29.7	41.7
400	15.9	17.9	15.8	21.8	12.8	18.8	55.3	66.5	28.2	39.2
500	15.2	17.2	13.8	19.8	10.8	16.8	54.0	65.0	27.2	37.2
600		16.7		18.2		15.2	51.0	63.8	25.2	35.6
650		16.4		17.5		14.5		63.3		34.9
700		16.2		16.9		13.9				
750		16.0		16.3		13.3				

SUSTAINABILITY LEADERSHIP



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