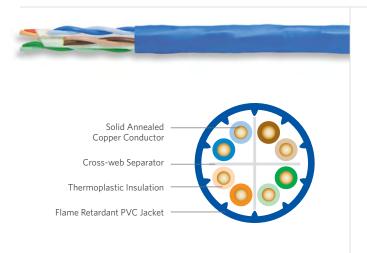
10Gain® Category 6A

CMR/CMP



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin 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
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Velocity of Propagation %	CMR: 65 CMP: 68
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6A UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member ROHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

10Gain® cable brings Category 6A UTP performance to a new level. This cable meets the internal and alien cross-talk performance requirements of ANSI/TIA-568-C.2 as tested in a 6 around 1 configuration. With guaranteed performance out to 500 MHz and independently verified and monitored by UL, 10Gain CAT 6A cable demonstrates superior capability for 10 Gigabit Ethernet (10 GbE) and all other bandwidth intensive and legacy applications.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

7 trivi dila token ring	
Backward compatible to legacy p	
FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
Multi-Attribute Certification by GreenCircle Certified, LLC	 Offers an overview of the sustainability of a product, its packaging and manufacturing
 UL Verified CAT 6A 	 Assures consistent, worry-free performance
Tested to 650 MHz	 Assures ample bandwidth headroom
 Exceptional PSACR and PSAACRF (PSAELFEXT) performance 	 Performance assurance for 10 GbE and multiple high- bandwidth applications
CableID® alpha numeric code printed every 2 feet	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount® marking system in feet and meters 	 Provides remaining length of cable on reel
ColorTip® circuit identification system	Easily identifiable conductor mates even in low-light environments

PART NUMBERS AND P	HYSICAL CHARACTERISTIC	CS .			
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6A-272-xA	0.350 (8.9)	51 (76)	1,000' Plywood reel	12
CMP	6A-246-xB	0.295 (7.5)	43 (64)	1,000' BrakeBox®	12
CMP	6A-272-xB	0.295 (7.5)	43 (64)	1,000' Plywood reel	12

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

ELECTRICAL SPECIFICATIONS

		n Loss @ laximum	20°C	NFX ⁻	CT Minimum ACR Minimum					PSNE	KT Minim	ıım	PSACR Minimum			
		3/100 m		dB/100 m dB/100 m					3/100 m		dB/100 m					
Frequency	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superio	or Essex	
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	
1	2.7	2.0	1.7	74.3	75.3	92.4	72.2	74.3	90.7	72.3	74.3	90.3	70.2	72.3	88.7	
4	3.8	3.6	3.4	65.3	66.3	82.2	61.5	63.5	78.9	63.3	65.3	80.5	59.5	61.5	77.2	
8	5.3	5.1	4.7	60.8	61.8	78.0	55.5	57.5	73.3	58.8	60.8	76.4	53.5	55.5	71.7	
10	5.9	5.7	5.3	59.3	60.3	76.5	53.4	55.4	71.2	57.3	59.3	74.8	51.4	53.4	69.6	
16	7.5	7.2	6.7	56.2	57.2	73.8	48.8	50.8	67.2	54.2	56.2	72.0	46.7	48.8	65.4	
20	8.4	8.1	7.6	54.8	55.8	71.1	46.4	48.5	63.6	52.8	54.8	69.7	44.4	46.5	62.2	
25	9.4	9.1	8.5	53.3	54.3	68.9	43.9	46.0	60.5	51.3	53.3	67.4	41.9	44.0	59.1	
31.25	10.5	10.2	9.5	51.9	52.9	68.3	41.4	43.5	58.9	49.9	51.9	67.0	39.4	41.5	57.6	
62.5	15.0	14.5	13.6	47.4	48.4	64.3	32.4	34.5	50.8	45.4	47.4	62.3	30.4	32.5	49.0	
100	19.1	18.5	17.4	44.3	45.3	61.2	25.2	27.3	44.0	42.3	44.3	59.2	23.2	25.3	42.2	
200	27.6	26.8	25.1	39.8	40.8	57.1	12.2	14.3	32.4	37.8	39.8	54.9	10.2	12.3	30.3	
250	31.1	30.2	28.2	38.3	39.3	55.9	7.2	9.4	27.6	36.3	38.3	53.3	5.2	7.4	25.4	
300	34.3	33.3	31.1	37.1	38.1	53.7	2.8	5.0	22.8	35.1	37.1	51.5	0.8	3.0	20.9	
350	37.2	36.3	33.8	36.1	37.1	52.7		1.0	19.1	34.1	36.1	50.1			16.9	
400	40.1	39.0	36.3	35.3	37.3	52.4			15.3	33.3	36.3	49.3			13.5	
500	45.3	44.1	41.0	33.8	35.8	48.7			7.7	31.8	34.8	46.2			5.8	
550			43.2			45.6			2.3			43.7			1.0	
600			45.3			44.0						42.2				
650			47.5			42.0						40.2				
700			48.3			41.1						40.8				
750			50.0			40.5						40.3				

	Return Loss Minimum dB/100 m						m	PSACRF Minimum dB/100 m			PSANEXT Minimum dB/100 m			PSAACRF Minimum dB/100 m		
Frequency	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superio	or Essex	TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex		or Essex	TIA-568-C.2 Superior Essex		r Essex		
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	
1	20.0	20.0	27.3	67.8	69.8	83.6	64.8	68.8	81.2	67.0	67.0	94.8	67.0	67.0	71.2	
4	23.0	23.0	33.1	55.8	57.8	72.0	52.8	56.8	69.6	67.0	67.0	85.7	66.2	66.2	70.3	
8	24.5	24.5	35.3	49.7	51.7	66.2	46.7	50.7	63.7	67.0	67.0	81.2	60.1	60.1	64.3	
10	25.0	25.0	36.0	47.8	49.8	64.4	44.8	48.8	61.8	67.0	67.0	79.8	58.2	58.2	62.4	
16	25.0	25.0	36.5	43.7	45.7	60.3	40.7	44.7	57.8	67.0	67.0	76.7	54.1	54.1	58.3	
20	25.0	25.0	38.4	41.8	43.8	58.4	38.8	42.8	56.0	67.0	67.0	75.3	52.2	52.2	56.4	
25	24.3	24.3	37.6	39.8	41.8	56.3	36.8	40.8	54.1	67.0	67.0	73.8	50.2	50.2	54.4	
31.25	23.6	23.6	37.8	37.9	39.9	54.3	34.9	38.9	52.1	67.0	67.0	72.4	48.3	48.3	52.5	
62.5	21.5	21.5	36.6	31.9	33.9	48.3	28.9	32.9	46.1	65.6	65.6	67.8	42.3	42.3	46.5	
100	20.1	20.1	33.5	27.8	29.8	44.5	24.8	28.8	42.3	62.5	62.5	64.8	38.2	38.2	42.4	
200	18.0	18.0	30.7	21.8	23.8	38.4	18.8	22.8	36.2	58.0	58.0	60.3	32.2	32.2	36.4	
250	17.3	17.3	30.3	19.8	21.8	35.0	16.8	20.8	33.4	56.5	56.5	58.8	30.2	30.2	34.4	
300	16.8	16.8	26.9	18.3	19.3	33.8	15.3	19.3	31.6	55.3	55.3	57.6	28.7	28.7	32.8	
350	16.3	16.3	27.0	16.9	17.9	32.5	13.9	17.9	30.4	54.3	54.3	56.6	27.3	27.3	31.5	
400	15.9	15.9	26.9	15.8	15.8	31.8	12.8	16.8	29.8	53.5	53.5	55.7	26.2	26.2	30.3	
500	15.2	15.2	24.8	13.8	13.8	29.8	10.8	14.8	28.1	52.0	52.0	54.3	24.2	24.2	28.4	
550			24.2			28.8			26.9			53.7			27.6	
600			22.7			28.6			26.4			53.1			26.8	
650			19.6			27.2			25.3			52.6			26.1	
700			19.1			26.8			24.9			52.1			25.5	
750			17.8			26.2			24.3			51.7			24.9	

SUSTAINABILITY LEADERSHIP













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