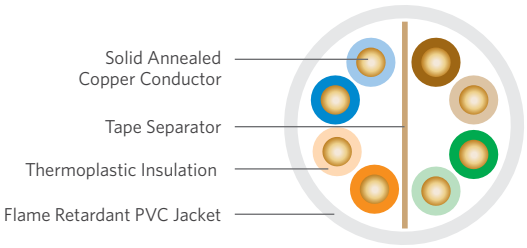
DataGain® Category 6+

CMR/CMP



PRODUCT DESCRIPTION

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

DataGain® cable provides the best value in Category 6+ cables on the market today. The innovative design, which utilizes a tape separator, yields exceptional performance that exceeds TIA/EIA CAT 6 specifications. DataGain easily surpasses the performance of other cost-competitive CAT 6 cables.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) – IEEE 802.3af
- PoE+ – IEEE 802.3at Type 1 and 2
- ATM and token ring

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
• Guaranteed electrical performance to 400 MHz	• Greater assurance of exceptional overall channel performance at a great value
• Guaranteed 5 dB margin in NEXT, PSNEXT, ELFEXT, PSELFEXT, ACR and PSACR	• "Future-proofs" the cable installation
• Tested to 550 MHz	• Assures ample bandwidth headroom
• Round design with tape separator	• Reduces installation time
• Warranted with numerous connectivity manufacturers	• Offers flexibility in selection of connectivity solutions
• BrakeBox® payout control system	• Adjustable tension control on reel prevents over spin and entangling of cable
• 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
• Color coded box labels	• Easily identifies jacket colors

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	Tape
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 72
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 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

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number[1]	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	66-246-xA	0.22 (5.5)	24 (36)	1,000' BrakeBox	27
CMR	66-272-xA	0.22 (5.5)	24 (36)	1,000' Plywood reel	16
CMR	66-240-xA	0.22 (5.5)	24 (36)	1,000' POP™ box	36
CMP	66-246-xB	0.22 (5.5)	26 (39)	1,000' BrakeBox	27
CMP	66-272-xB	0.22 (5.5)	26 (39)	1,000' Plywood reel	16
CMP	66-240-xB	0.22 (5.5)	26 (39)	1,000' POP box	36

JACKET COLORS

[1]Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Pink = C	Orange = D	Black = E

SUPERIOR ESSEX

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SuperiorEssex.com

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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		
	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex	
	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.7	74.3	79.3	90.6	72.3	77.3	88.9	72.3	77.3	88.2
4	3.8	3.8	3.4	65.3	70.3	80.9	61.5	66.5	77.5	63.3	68.3	78.6
10	6.0	5.9	5.4	59.3	64.3	74.4	53.3	58.4	69.0	57.3	62.3	72.1
16	7.6	7.5	6.9	56.2	61.2	71.4	48.6	53.7	64.5	54.2	59.2	69.1
20	8.5	8.4	7.8	54.8	59.8	70.1	46.3	51.4	62.4	52.8	57.8	67.8
25	9.5	9.4	8.7	53.3	58.3	68.4	43.8	48.9	59.7	51.3	56.3	66.1
31.25	10.7	10.6	9.8	51.9	56.9	67.2	41.2	46.3	57.3	49.9	54.9	64.8
62.5	15.4	15.3	14.1	47.4	52.4	62.5	32.0	37.1	48.4	45.4	50.4	60.3
100	19.8	19.7	18.1	44.3	49.3	59.7	24.5	29.6	41.5	42.3	47.3	57.3
200	29.0	28.8	26.4	39.8	44.8	54.5	10.8	16.0	28.3	37.8	42.8	52.3
250	32.8	32.6	29.8	38.3	43.3	53.5	5.5	10.7	23.5	36.3	41.3	50.8
400		42.7	38.9		36.3	48.2			9.2		34.3	45.6
500			44.2			45.4						43.0
550			47.2			44.0						42.1

Frequency MHz	PSACR Minimum dB/100 m			Return Loss Minimum dB/100 m			ELFEXT (ACRF) Minimum dB/100 m			PSELFEXT (PSACRF) Minimum dB/100 m		
	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior Essex	
	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical
1	70.3	75.3	85.6	20.0	20.0	28.5	67.8	72.7	82.6	64.8	69.8	80.6
4	59.5	64.5	74.3	23.0	23.0	33.8	55.8	60.7	70.7	52.8	57.8	68.8
10	51.3	56.5	65.7	25.0	25.0	36.1	47.8	52.7	62.9	44.8	49.8	60.9
16	46.6	51.7	61.3	25.0	25.0	36.2	43.7	48.6	58.9	40.7	45.7	56.9
20	44.3	49.4	59.2	25.0	25.0	35.9	41.8	46.7	57.0	38.8	43.8	54.9
25	41.8	46.9	56.5	24.3	24.3	36.0	39.8	44.7	55.2	36.8	41.8	53.0
31.25	39.2	44.3	54.2	23.6	23.6	35.7	37.9	42.8	53.3	34.9	39.9	51.1
62.5	30.0	35.1	45.3	21.5	21.5	33.2	31.9	36.8	47.5	28.9	33.9	45.2
100	22.5	27.6	38.5	20.1	20.1	32.2	27.8	32.7	43.6	24.8	29.8	41.3
200	8.8	14.0	25.2	18.0	18.0	30.2	21.8	26.7	37.7	18.8	23.8	35.4
250	3.5	8.7	20.4	17.3	17.3	30.1	19.8	24.7	35.7	16.8	21.8	33.4
400			6.2		15.9	27.0		17.8	30.2		12.8	28.8
500						25.5			28.2			25.9
550						24.6			26.6			24.5

SUSTAINABILITY LEADERSHIP

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