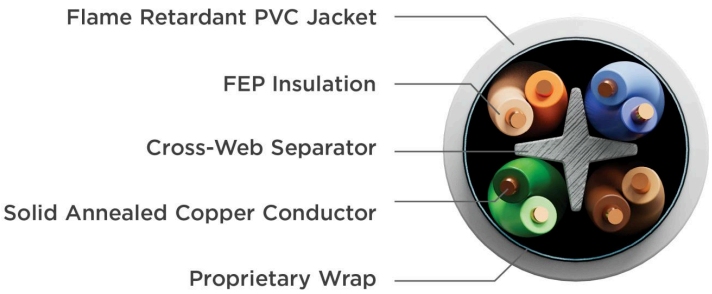
Premises Copper > Indoor > Category 6A > 4 Pairs > 23 AWG

10Gain® / Category 6A / Indoor / 4 Pairs / 23 AWG / CMP / White / 1K FT BrakeBox®

CMP

Part Number: 6A-246-4B
Status: Available





MADE IN THE USA

RoHS

GENERAL SPECIFICATIONS

Jacket	LSPVC
End User Application	Datacenter
Pairs	4
Conductor	Bare Copper
Conductor Type	Solid
Conductor Description	Solid annealed copper
Conductor Count	8
AWG (mm)	23 (0.57)
Insulation	FEP
Insulation Colors	ColorTip®: Pair 1: Light Blue / Blue Pair 2: Light Orange / Orange Pair 3: Light Green / Green Pair 4: Light Brown / Brown
Separator	Cross-Web
Core Wrap	Proprietary construction
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	71
Temperature Rating	90°C

COMPLIANCE & SUSTAINABILITY

Standards Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568.2-E Article 800, NEC (NFPA 70) RoHS-compliant
NRTL Programs	UL Verified CAT 6A UL Listed CMP-LP (0.5) c(UL) Listed CMP

PHYSICAL CHARACTERISTICS

Nominal Diameter in (mm)	0.260 (6.60)
Nominal Weight lbs/kft (kg/km)	34 (50)
Pallet Quantity (ft)	27,000
Package Length	1,000
Package Type	BrakeBox®
Packages per Pallet	27
Standard Length ft (m)	1,000 (305)

Product Description

This CAT 6A cable meets or exceeds all industry requirements including ANSI/TIA-568.2-E. 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. Part number 6A-246-4B is the plenum-rated (CMP) white version: a 4-pair, 23 AWG UTP construction with solid annealed copper conductors, FEP insulation, a cross-web separator and an LSPVC jacket. Nominal diameter is 0.260 (6.60) in (mm) with an approximate weight of 34 (50) lbs/kft (kg/km), supplied in a 1,000 ft BrakeBox®.

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

Benefits

- Contributes toward 1 LEED point under the Material and Resources credit (MRc)
- Contributes toward 1 LEED point under the MRc
- Offers an overview of the sustainability of a product, its

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- Guaranteed 1 dB AXT margin
- UL Verified CAT 6A
- Tested to 650 MHz
- Nominal 0.275 (CMP) inch diameter
- Proprietary core wrap
- CableID® alpha numeric code printed every 2 feet

- 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

- QuickCount® marking system in feet and meters
- ColorTip® circuit identification system

- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments

Technical Guideline

Technical Guideline TG029 "Premises Cable Temperature Guidelines" provides operating, storage and installation temperature ranges for premises cables. Click here for more information.

SUSTAINABILITY CERTIFICATIONS

ELECTRICAL SPECIFICATIONS

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		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	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	20.0	22.0	67.8	73.8	64.8	70.8	68.0	96.5	68.0	80.0
4	3.8	3.7	65.3	69.3	61.5	66.6	63.3	68.3	59.5	65.6	23.0	25.0	55.8	61.8	52.8	58.8	68.0	87.5	67.2	79.2
8	5.3	5.1	60.8	64.8	55.4	60.6	58.8	63.8	53.4	59.6	24.5	26.5	49.7	55.7	46.7	52.7	68.0	83.0	61.1	73.1
10	5.9	5.7	59.3	63.3	53.4	58.6	57.3	62.3	51.4	57.6	25.0	27.0	47.8	53.8	44.8	50.8	68.0	81.5	59.2	71.2
16	7.5	7.3	56.2	60.2	48.8	54.0	54.2	59.2	46.8	53.0	25.0	27.0	43.7	49.7	40.7	46.7	68.0	80.0	55.1	67.1
20	8.4	8.1	54.8	58.8	46.4	51.7	52.8	57.8	44.4	51.2	25.0	27.0	41.8	47.8	38.8	44.8	68.0	80.0	53.2	65.2
25	9.4	9.1	53.3	57.3	44.0	49.7	51.3	56.3	42.0	49.0	24.3	26.3	39.8	45.8	36.8	42.8	68.0	80.0	51.2	63.2
31.25	10.5	10.2	51.9	55.9	41.4	47.2	49.9	54.9	39.4	46.7	23.6	25.6	37.9	43.9	34.9	40.9	68.0	80.0	49.3	61.3
62.5	15.0	14.4	47.4	51.4	32.4	39.0	45.4	50.4	30.4	38.4	21.5	23.5	31.9	37.9	28.9	34.9	66.6	78.6	43.3	55.3
100	19.1	18.4	44.3	48.3	25.2	32.4	42.3	47.3	23.2	31.7	20.1	22.1	27.8	33.8	24.8	30.8	63.5	75.5	39.2	51.2
200	27.6	26.5	39.8	43.8	12.2	20.1	37.8	42.8	10.2	19.5	18.0	20.0	21.8	27.8	18.8	24.8	59.0	71.0	33.2	45.2
250	31.1	29.8	38.3	42.3	7.3	15.5	36.3	41.3	5.3	15.1	17.3	19.3	19.8	25.8	16.8	22.8	57.5	69.5	31.2	43.2
300	34.3	32.9	37.1	41.1	2.9	11.4	35.1	40.1	0.9	10.8	16.8	18.8	18.3	24.3	15.3	21.3	56.3	68.3	29.7	41.7
400	40.1	38.3	35.3	39.3	-	4.6	33.3	38.3	-	3.6	15.9	17.9	15.8	21.8	12.8	18.8	55.3	66.5	28.2	39.2
500	45.3	43.0	33.8	37.8	-	-	31.8	36.8	-	-	15.2	17.2	13.8	19.8	10.8	16.8	54.0	65.0	27.2	37.2
600	-	47.5	-	36.4	-	-	-	35.6	-	-	-	16.7	-	18.2	-	15.2	51.0	63.8	25.2	35.6
650	-	49.7	-	35.9	-	-	-	35.1	-	-	-	16.4	-	17.5	-	14.5	-	63.3	-	34.9
700	-	51.4	-	35.5	-	-	-	34.6	-	-	-	16.2	-	16.9	-	13.9	-	-	-	-
750	-	53.3	-	35.1	-	-	-	34.2	-	-	-	16.0	-	16.3	-	13.3	-	-	-	-

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