

CAT6A AUGMENTED CABLE SHIELDED RISER RATED (F/UTP)

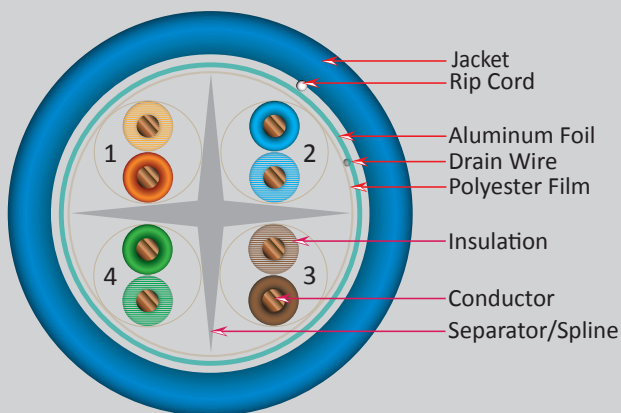


DESCRIPTION

CAT6A (Augmented) F/UTP, 23 AWG Solid Bare Copper.

FEATURES

- 23 AWG Bare Copper Conductors
- Overall Shielded Twisted-Pair (F/UTP) Construction
- Riser Fire Safety Rating (CMR)
- Easy-to-See Vivid-Color Conductor Insulation & Jacket
- Exceeds ANSI/TIA-568.2-D and ISO/IEC 11801 Transmission Performance Specifications
- PoE compliant up to type 4 (IEEE 802.3bt)
- Supports High-Speed Data Applications including Ethernet 10 Gigabit, 100 BASE TX, 100BaseVG AnyLan, 155ATM, 622ATM, NTSC/PAL, Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422
- ETL-listed, RoHS-Compliant
- Designed in the USA, Imported Product
- Packaging: 1000 ft Wooden Spool
- Weight: 40-42 lbs



SKU: 064 SERIES (F/UTP)

Technical Data

Rated Temperature	-20~75 °C
Voltage Rating	30 V
NVP	74%

Conductor

Size	23 AWG
Diameter (±0.01)	0.022 in. (0.57 mm)

Insulation

Diamers (±0.05)	0.04 in. (1.12 mm)
Average Thickness	0.0098 in. (0.25 mm)
Min. Thickness	0.008 in. (0.20 mm)

Separator

Rip Cord

Filler

Overall Screen

PET Tape and Aluminium poly laminate	0.02 in. (0.4 mm +/-0.01)
Drain Wire Material	TC
Drain Wire Size (±0.01)	0.016 in. (0.4 mm)
Shield	AL/PET

Outer Jacket

Nominal Diameter (±0.3)	0.3 in. (7.6 mm)
Average Thickness	0.024 in. (0.6 mm)
Min. Thickness	0.02 in. (0.5 mm)

Color of Pairs

Pair 1:Blue,White-Blue
Pair 2:Orange,White-Orange
Pair 3:Green,White-Green
Pair 4:Brown,White-Brown

Standards:

ISO11801 & ANSI/TIA- 568.2-D, UL Subject to 444

Marking on Jacket

VERTICAL CABLE c(ETL)us 5006092 CMR 75C F/UTP 4PR 23AWG
CAT6A ANSI/TIA-568.2-D RoHS V2034P11455 XXXXFT

Available in Black, Blue, Green, Gray, White, Yellow
*Check availability with your Account Manager.

VERTICAL CABLE

951.696.7772 California

800.749.2447 Florida

845.391.8318 New York



www.verticalcable.com

Rev. 09/2024

Specs subject to change without notice.

It is the sole responsibility of the user to have the most current specs.

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PERFORMANCE

MECHANICAL & ELECTRICAL CHARACTERISTICS:

Maximum Pulling Force	100 N
Minimum Bending Radius	8*OD
Nominal Weight	55 KG/KM
Operating Temperature	-20°C ~ +70°C
Installation Temperature	+0°C ~ +60°C
Conductor DCR (20°C)	≤93.8Ω/km
Fire Performance	ROHS, IEC60332-1,CMR Rate
Testing requirement	Pass fluke link 295FT (90meter) testing based on ANSI/TIA 568C.2 CAT6A standard

Transmission Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	200	250	500
NEXT dB	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3	33.8
Characteristic Impedance (ohm)	100+/- 15								+/- 22		+/- 25
Attenuation dB/100m	2.1	3.8	5.9	7.5	8.4	10.5	15.0	19.1	27.6	31.1	45.3
Return Loss dB	20	23	25	25	25	23.6	21.5	20.1	18	17.3	15.2
PSNEXT dB	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3	31.8
ACRF dB	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8	13.8
PS ACRF dB	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8	10.8
PS ANEXT dB	92.5	83.5	77.5	74.4	73.0	70.1	65.6	62.5	58.0	56.5	52.0
PS AACRF dB	78.2	66.2	58.2	54.1	52.2	48.3	42.3	38.2	32.2	30.2	24.2
Delay ns/100m	570	552	545	543	542	540	539	538	537	536	536
Skew ns/100m	45										

Permanent Link transmission performance(90M)							
Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (dB)	PSACRF (dB)	Return loss (dB)	Delay (ns)
1.00	1.9	65.0	62.0	64.2	61.2	19.1	521
4.00	3.5	64.1	61.8	52.1	49.1	21.0	504
8.00	5.0	59.4	57.0	46.1	43.1	21.0	500
10.00	5.5	57.8	55.5	44.2	41.2	21.0	498
16.00	7.0	54.6	52.2	40.1	37.1	20.0	496
20.00	7.8	53.1	50.7	38.2	35.2	19.5	495
25.00	8.8	51.5	49.1	36.2	33.2	19.0	495
31.25	9.8	50.0	47.5	34.3	31.3	18.5	494
62.50	14.0	45.1	42.7	28.3	25.3	16.0	492
100.00	18.0	41.8	39.3	24.2	21.2	14.0	491
200.00	26.1	36.9	34.3	18.2	15.2	11.0	490
250.00	29.5	35.3	32.7	16.2	13.2	10.0	490
300.00	32.7	34.0	31.4	14.6	11.6	9.2	490
400.00	38.4	29.9	27.1	12.1	9.1	8.0	490
500.00	43.8	26.7	23.8	10.2	7.2	8.0	490

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