

CAT6A AUGMENTED CABLE SHIELDED RISER RATED (F/UTP)

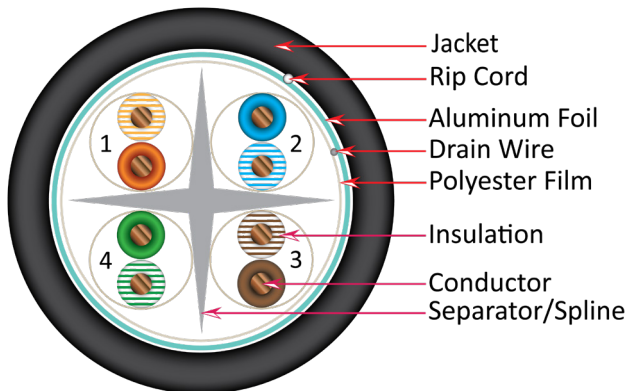


DESCRIPTION

CAT6A (Augmented) F/UTP, 23 AWG Solid Bare Copper. Wooden Spool, 1000 ft.

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



064-700s SERIES

TECHNICAL DATA

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

CONDUCTOR

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

INSULATION

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

SEPARATOR

LDPE

RIP CORD

Yes

FILLER

Cross-section

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):	PVC
Average Thickness:	0.3 in. (7.6 mm)
Min. Thickness:	0.024 in. (0.6 mm)
	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

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

WEIGHT

42 lbs (19 kg)

VERTICAL CABLE

951.696.7772 California
 800.749.2447 Florida
 845.391.8318 New York
 713.322.7242 Texas



verticalcable.com

Rev. 02/2025

Subject to change without notice.

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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

Part Number:	Description:
064-700/A/S/BK	CAT6A Shielded Riser Rated (F/UTP) CMP, Black
064-701/A/S/BL	CAT6A Shielded Riser Rated (F/UTP) CMP, Blue
064-702/A/S/GR	CAT6A Shielded Riser Rated (F/UTP) CMP, Green
064-703/A/S/GY	CAT6A Shielded Riser Rated (F/UTP) CMP, Gray
064-704/A/S/OR	CAT6A Shielded Riser Rated (F/UTP) CMP, Orange
064-706/A/S/PR	CAT6A Shielded Riser Rated (F/UTP) CMP, Purple
064-707/A/S/RD	CAT6A Shielded Riser Rated (F/UTP) CMP, Red
064-708/A/S/WH	CAT6A Shielded Riser Rated (F/UTP) CMP, White
064-709/A/S/YL	CAT6A Shielded Riser Rated (F/UTP) CMP, Yellow

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PERFORMANCE

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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