



CAT6A AUGMENTED CABLE SHIELDED RISER RATED (F/UTP)

064-700s SERIES

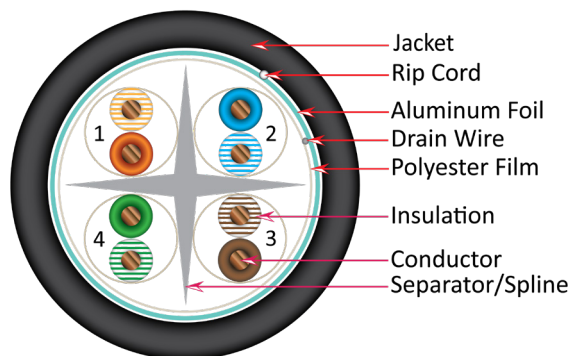
PART NUMBER:	DESCRIPTION:
064-700/A/S/BK	CAT6A Shielded Riser Rated (F/UTP) CMR, Black
064-701/A/S/BL	CAT6A Shielded Riser Rated (F/UTP) CMR, Blue
064-702/A/S/GR	CAT6A Shielded Riser Rated (F/UTP) CMR, Green
064-703/A/S/GY	CAT6A Shielded Riser Rated (F/UTP) CMR, Gray
064-704/A/S/OR	CAT6A Shielded Riser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

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



CONDUCTOR

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

INSULATION

Diameters (±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

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: PVC
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

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

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. 07/2025

Subject to change without notice.

CAT6A AUGMENTED CABLE

SHIELDED RISER RATED (F/UTP)

PERFORMANCE

TECHNICAL DATA:

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

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										

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PERFORMANCE

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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