Southwire®

-GENESIS-

Limited-Energy Cable

Category 6A Cable

PLENUM

300V (max)
Operating Voltage

-20°C 75°C
Operating Temperature

RoHS COMPLIANT
RoHS Compliant

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cULus Listed

APPLICATIONS

Genesis Category 6A Cable offers the ultimate choice for high-performance networks. These cables support 10 Gigabit Ethernet speeds to handle the demands of wireless access points, IP video surveillance, and data centers.

- In fabricated ducts as described in NEC 300.22(B)
- In other spaces used for environmental air as described in NEC 300.22(C)
- In risers
- Within buildings in other than air-handling spaces and risers

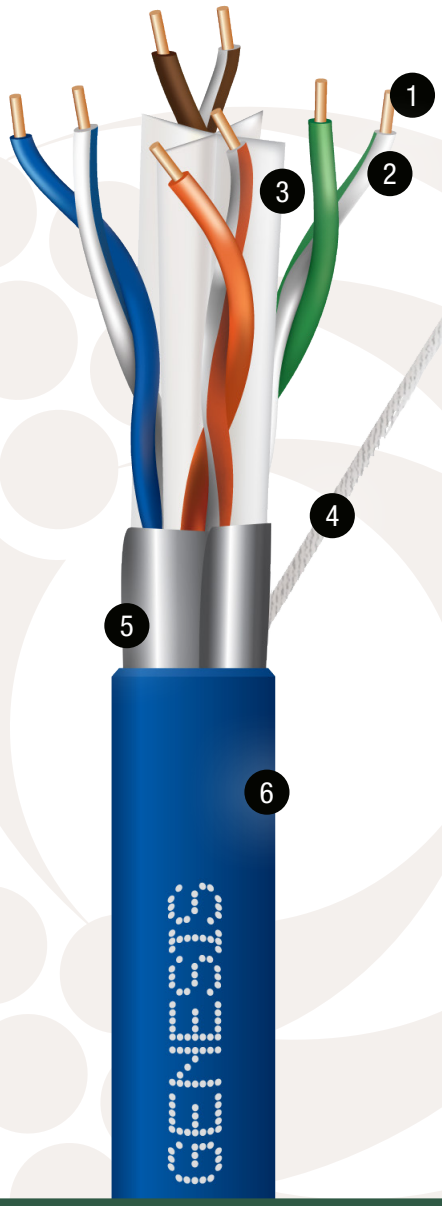
SPECIFICATIONS

Genesis Category 6A Cable meets or exceeds the following specifications:

- NFPA 262 – Plenum Rated
- CSA C22.2 No. 2556 – FT6 Rated
- UL 444 – Communication Cables, Type CMP
- TIA-568.2-D Category 6A

CONSTRUCTION

1. **Conductor:** Bare Copper conductors for excellent signal transmission and low voltage drop
2. **Insulation:** FEP
3. **Spline Separator:** Reduces crosstalk for improved performance
4. **Rip Cord:** Durable rip cord for efficient jacket stripping and removal
5. **Noncontinuous Aluminum Tape:** Over all conductors
6. **Jacket:** Plenum PVC, Countdown® Length Markings for easy tracking of usage and remaining cable



CONDUCTOR COLORS BY NUMBER OF PAIRS	
Pair 1: Blue & Blue/White	Pair 2: Orange & Orange/White
Pair 3: Green & Green/White	Pair 4: Brown & Brown/White

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CATEGORY 6A CABLE, PLENUM

AWG	NUMBER OF PAIRS	SOLID / STRANDED	CENTER SPLINE	SHIELDED / UNSHIELDED	NOMINAL O.D. (in.)	PRODUCT NUMBER
23	4	Solid	Yes	Noncontinuous Aluminum Tape	0.252	5393

UL VERIFIED TO TIA-568.2-D CAT 6A. SWEEP TESTED TO 700 MHZ

FREQUENCY (MHz)	INSERTION LOSS MAXIMUM (dB/100m.)	NEXT MINIMUM (dB/100m.)	PSNEXT MINIMUM (dB/100m.)	RETURN LOSS MINIMUM (dB/100m.)	PSANEXT MINIMUM (dB/100m.)	PSAACRF MINIMUM (dB/100m.)
1	2.1	74.3	72.3	20.0	67.0	67.0
4	3.8	65.3	63.3	23.0	67.0	66.2
8	5.3	60.8	58.8	24.5	67.0	60.1
10	5.9	59.3	57.3	25.0	67.0	58.2
16	7.5	56.2	54.2	25.0	67.0	54.1
20	8.4	54.8	52.8	25.0	67.0	52.2
25	9.4	53.3	51.3	24.3	67.0	50.2
31.25	10.5	51.9	49.9	23.6	67.0	48.3
62.5	15.0	47.4	45.4	21.5	65.6	42.3
100	19.1	44.3	42.3	20.1	62.5	38.2
155	24.1	41.4	39.4	18.8	59.6	34.4
200	27.6	39.8	37.8	18.0	58.0	32.2
250	31.1	38.3	36.3	17.3	56.5	30.2
300	34.3	37.1	35.1	16.8	55.3	28.7
350	37.2	36.1	34.1	16.3	54.3	27.3
400	40.1	35.3	33.3	15.9	53.5	26.2
500	45.3	33.8	31.8	15.2	52.0	24.2
550	47.7	33.2	31.2	14.9	51.4	23.4
600	50.1	32.6	30.6	14.7	50.8	22.6
700	54.5	31.6	29.6	14.2	49.8	21.3

SAMPLE PRINT LEGEND

GENESIS P/N 5393 4PR23 CAT 6A E118871 (UL) CMP C(UL)US FT6 75C (RoHS)
ETL VERIFIED TO TIA-568.2-D CAT 6A XXXXXXXX YYYY FT RM# A B C D E F 1 2 3 4 5 6 7 8 9

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