Southwire®

-GENESIS-

Limited-Energy Cable

Category 6A Cable

RISER

300V (max)
Operating Voltage

-20°C 75°C
Operating Temperature

Sunlight Resistant

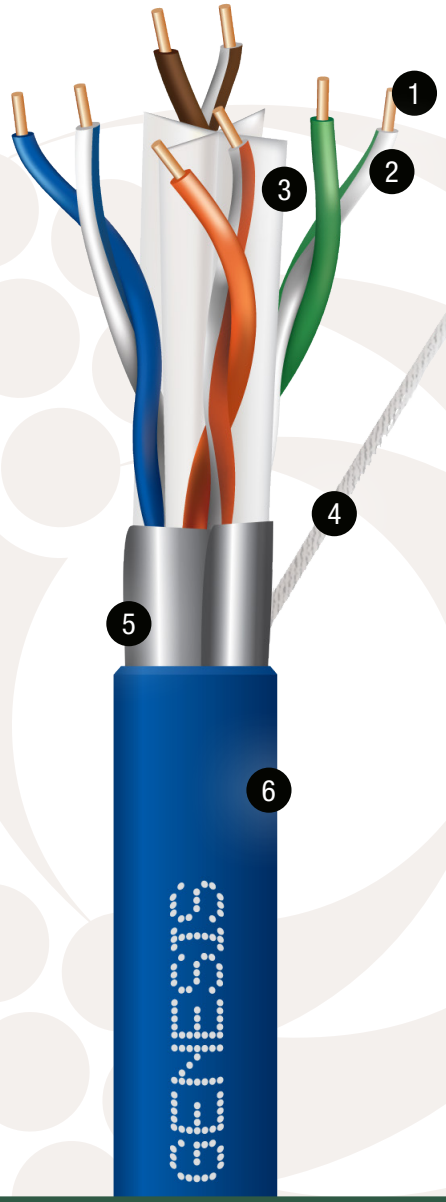
RoHS COMPLIANT
RoHS Compliant

c UL us LISTED
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.

- Installed in a metal raceway that complies with 300.22(B)
- Supported by solid bottom metal cable trays with solid metal covers
- In risers
- Within buildings in other than air-handling spaces and risers
- Exposed to sunlight



SPECIFICATIONS

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

- UL 1666 – Riser Rated
- CSA C22.2 No. 2556 – FT4 Rated
- UL 444 – Communication Cables, Type CMR
- TIA-568.2-D Category 6A

CONSTRUCTION

1. **Conductor:** Bare Copper conductors for excellent signal transmission and low voltage drop
2. **Insulation:** Polypropylene or Polyethylene
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:** 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

Southwire Company, LLC. • One Southwire Drive • Carrollton, GA 30119
©2025 Southwire Company, LLC. All Rights Reserved.
®Registered Trademark & ™Trademark of Southwire Company, LLC.

WE DELIVER POWER... RESPONSIBLY.®

Southwire®

-GENESIS-

Limited-Energy Cable

CATEGORY 6A CABLE, RISER

AWG	NUMBER OF PAIRS	SOLID / STRANDED	CENTER SPLINE	SHIELDED / UNSHIELDED	NOMINAL O.D. (in.)	PRODUCT NUMBER
23	4	Solid	Yes	Noncontinuous Aluminum Tape	0.276	5193

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 5193 4PR23 CAT 6A E118871 (UL) CMR C(UL)US FT4 SUN RES 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

Southwire Company, LLC. • One Southwire Drive • Carrollton, GA 30119
©2025 Southwire Company, LLC. All Rights Reserved.
®Registered Trademark & ™Trademark of Southwire Company, LLC.

WE DELIVER POWER... RESPONSIBLY.®