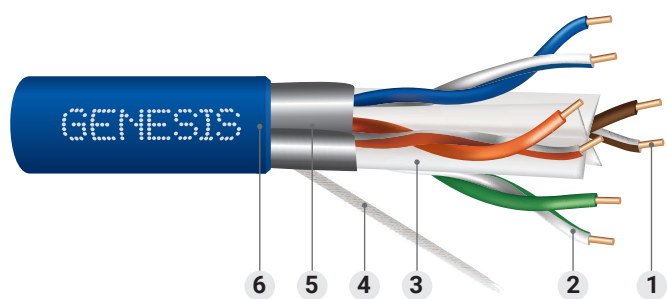


# Category 6A Cable

## Plenum

# -GENESIS-

Genesis Category 6A cables offer 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.



### 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





### Applications

- 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

- NFPA 262 – Plenum Rated
- CSA C22.2 No. 2556 – FT6 Rated
- UL 444 – Communication Cables, Type CMP
- REACH/RoHS Compliant
- TIA-568.2-D Category 6A
- Rated for 300 Volts
- Rated for -20°C to 75°C

Conductor Color Codes: Category Cable

Pair Number	Color
1	Blue/Blue+White 
2	Orange/Orange+White 
3	Green/Green+White 
4	Brown/Brown+White 

### Sample Print Legend

GENESIS P/N 5393 4PR23 CAT 6A E175104-1 (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

Category 6A Cable, Plenum						
Part Number	Conductor Size (AWG)	Number of Conductors	Stranding	Nominal Diameter (in)	DC Resistance (Ohms/100m at 20°C)	Capacitance (nF/100m)
5393	23	8 (4 pairs)	Solid	0.252	9.38	5.6

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

Genesis Cable  
 7701 95th Street  
 Pleasant Prairie, WI 53158  
 Office: 800.222.0060  
 www.genescable.com



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