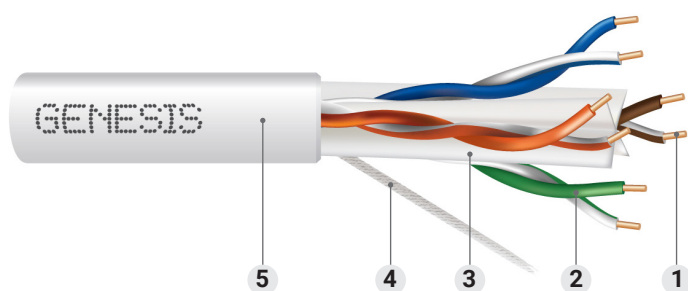


Category 6+ Cable Plenum

-GENESIS-

Genesis Category 6+ Cables feature thicker conductors to more efficiently handle data and power for more complex voice and data networks, high-bandwidth PoE IP video surveillance, and more.



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. 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 6
- 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 5102 4PR23 CAT 6 PLUS EEEEE (UL) CMP-LP (0.6A) 105C C(UL)US FT6 75C
(RoHS) ETL VERIFIED TO TIA-568.2-D CAT 6 XXXXXXXX YYYY FT RM# A B C D E F 1 2 3 4 5 6 7 8 9

Category 6+ Cable, Plenum

Part Number	Conductor Size (AWG)	Number of Conductors	Stranding	Nominal Diameter (in)	DC Resistance (Ohms/100m at 20°C)	Capacitance (nF/100m)
5102	23	8 (4 pairs)	Solid	0.240	9.38	5.6

ETL Verified to TIA-568.2-D Cat 6. Sweep tested to 600 MHz

Frequency (MHz)	Insertion Loss Maximum (dB/100m)	NEXT Minimum (dB/100m)	PSNEXT Minimum (dB/100m)	Return Loss Minimum (dB/100m)
1	2.0	74.3	72.3	20.0
4	3.8	65.3	63.3	23.0
8	5.3	60.8	58.8	24.5
10	6.0	59.3	57.3	25.0
16	7.6	56.2	54.2	25.0
20	8.5	54.8	52.8	25.0
25	9.5	53.3	51.3	24.3
31.25	10.7	51.9	49.9	23.6
62.5	15.4	47.4	45.4	21.5
100	19.8	44.3	42.3	20.1
155	25.2	41.4	39.4	18.8
200	29.0	39.8	37.8	18.0
250	32.8	38.3	36.3	17.3
300	36.4	37.1	35.1	16.8
350	39.8	36.1	34.1	16.3
400	43.0	35.3	33.3	15.9
500	48.9	33.8	31.8	15.2
550	51.8	33.2	31.2	14.9
600	54.5	32.6	30.6	14.7

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