Southwire®

-GENESIS-

Limited-Energy Cable

Category 5e Cable

DIRECT BURIAL

300V (max) Operating Voltage

-20°C 60°C Operating Temperature

Sunlight Resistant

Direct Burial

Water Blocking Gel

RoHS Compliant

APPLICATIONS

Genesis Category 5e Cable offers the ideal choice for basic voice and data networks in residential and light commercial buildings. This direct burial rated and water-blocked cable safeguards devices from moisture damage and corrosion to ensure uninterrupted performance and longevity.

- In burial applications with or without conduit
- In outdoor locations, exposed to sunlight and moisture

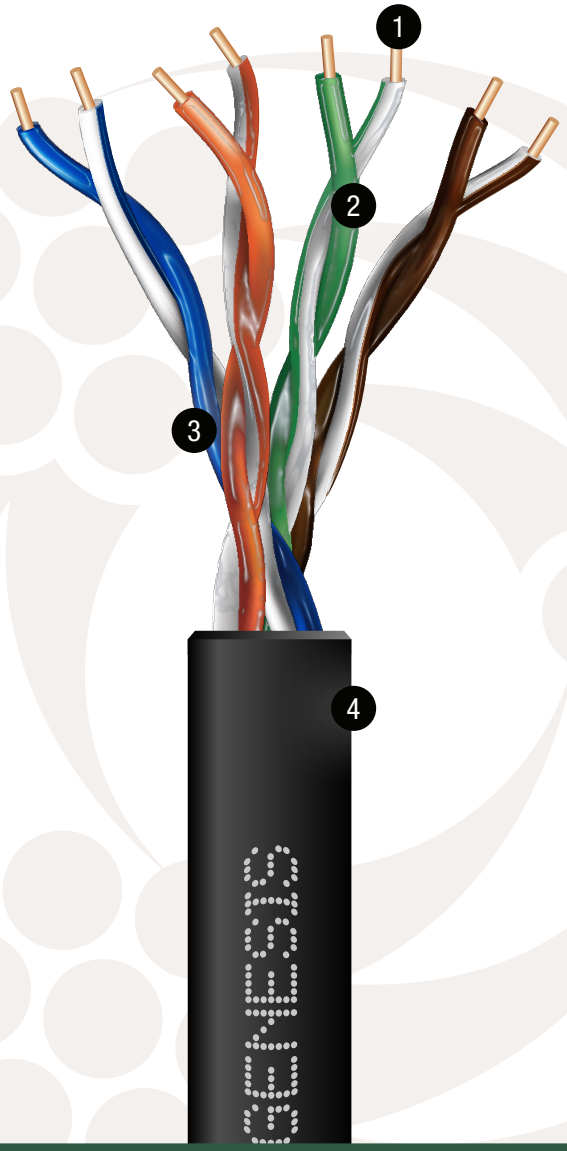
SPECIFICATIONS

Genesis Category 5e Cable meets or exceeds the following specifications:

- TIA-568.2-D Category 5e

CONSTRUCTION

1. **Conductor:** Bare Copper conductors for excellent signal transmission and low voltage drop
2. **Insulation:** Polyolefin
3. **Water Blocking:** Gel
4. **Jacket:** Polypropylene, 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 5E CABLE, DIRECT BURIAL

AWG	NUMBER OF PAIRS	SOLID / STRANDED	CENTER SPLINE	SHIELDED / UNSHIELDED	NOMINAL O.D. (in.)	PRODUCT NUMBER
24	4	Solid	No	Unshielded	0.236	5090

ETL VERIFIED TO TIA-568.2-D CAT 5E. SWEEP TESTED TO 350 MHZ

FREQUENCY (MHz)	INSERTION LOSS MAXIMUM (dB/100m.)	NEXT MINIMUM (dB/100m.)	PSNEXT MINIMUM (dB/100m.)	RETURN LOSS MINIMUM (dB/100m.)
1	2.0	65.3	62.3	20.0
4	4.1	56.3	53.3	23.0
8	5.8	51.8	48.8	24.5
10	6.5	50.3	47.3	25.0
16	8.2	47.2	44.2	25.0
20	9.3	45.8	42.8	25.0
25	10.4	44.3	41.3	24.3
31.25	11.7	42.9	39.9	23.6
62.5	17.0	38.4	35.4	21.5
100	22.0	35.3	32.3	20.1
155	28.1	32.4	29.4	18.8
200	32.4	30.8	27.8	18.0
250	36.9	29.3	26.3	17.3
300	41.0	28.1	25.1	16.8
350	44.9	27.1	24.1	16.3

SAMPLE PRINT LEGEND

GENESIS P/N 5090 4PR24 CAT5E DIRECT BURIAL SUNLIGHT RESISTANT WET LOCATION APPROVED
(RoHS) WO#????????????? MMYY XXXXFT

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