Southwire®

-GENESIS-

Limited-Energy Cable

Category 6 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 6 Cable offers the ideal choice for high-performance voice and data networks in residential and 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 6 Cable meets or exceeds the following specifications:

- TIA-568.2-D Category 6

CONSTRUCTION

1. **Conductor:** Bare Copper conductors for excellent signal transmission and low voltage drop
2. **Insulation:** Polyolefin
3. **Spline Separator:** Reduces crosstalk for improved performance
4. **Water Blocking:** Gel
5. **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 6 CABLE, DIRECT BURIAL

AWG	NUMBER OF PAIRS	SOLID / STRANDED	CENTER SPLINE	SHIELDED / UNSHIELDED	NOMINAL O.D. (in.)	PRODUCT NUMBER
24	4	Solid	Yes	Unshielded	0.281	5110

VERIFIED TO TIA-568.2-D CAT 6. SWEEP TESTED TO 400 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

SAMPLE PRINT LEGEND

GENESIS P/N 5110 4PR24 CAT 6 DIRECT BURIAL SUNLIGHT RESISTANT WET LOCATION APPROVED
(RoHS) WO#????????????? MMYY XXXXFT

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