

-GENESIS-

Direct Burial Outdoor Rated Networking/Ethernet Cable Part Number: 5090

4 Unshielded Twisted Pair (UTP) Category 5e

Ratings Direct Burial
Approvals Unlisted

Construction

Conductor Type	24 AWG Solid Bare Copper	Color Code	Pair
Conductor Count	8 (4 pairs)	Blue & White/Blue	1
Insulation	PP or PE	Orange & White/Orange	2
Spacer	N/A	Green & Green/White	3
Shielding	N/A	Brown & Brown/White	4
Fill Type	Gel		
Rip Cord	No		
Jacket Material	LLDPE		
Overall Outer Diameter	0.236" nom.		
Print Legend	GENESIS P/N 5090 4PR24 CAT5E DIRECT BURIAL SUNLIGHT RESISTANT WET LOCATION APPROVED (RoHS) WO#???????????? MMYX XXXXFT		

Electrical & Environmental

Operating Temperature -20°C to 60°C
Operating Voltage 300V max.
RoHS Compliant Yes

Velocity of Propagation 69% nominal

DC Resistance 9.38 Ohms/100m max. @ 20°C
Resistance Unbalance 5% max. @ 20°C
Capacitance 5.6 nF/100m max. @ 20°C
Capacitance Unbalance 330 pF/100m max. @ 20°C
Propagation Delay 570 ns/100m max. @ 20°C
Delay Skew 45 ns/100m max. @ 20°C

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

ETL Verified to TIA/EIA-568-C.2 Cat 5e. Sweep tested to 350 MHz

Country of Origin Taiwan

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