

# -GENESIS-

## Direct Burial Outdoor Rated Networking/Ethernet Cable Part Number: 5110

### 4 Unshielded Twisted Pair (UTP) Category 6

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	Yes	Green & Green/White	3
Shielding	N/A	Brown & Brown/White	4
Fill Type	Gel		
Rip Cord	No		
Jacket Material	LLDPE		
Overall Outer Diameter	0.281" nom.		
Print Legend	GENESIS P/N 5110 4PR24 CAT 6 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	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

Verified to TIA/EIA-568-C.2 Cat 6. Sweep tested to 400 MHz

Country of Origin Taiwan

Published: 2019-05-09 DDD