

# -GENESIS-

## Plenum Rated Networking/Ethernet Cable Part Number: 5102

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

**Ratings** CMP, FT6  
**Approvals** UL Listed, ETL Verified

#### Construction

Conductor Type	23 AWG Solid Bare Copper	<u>Color Code</u>	<u>Pair</u>
Conductor Count	8 (4 pairs)	Blue & White/Blue	1
Insulation	FEP	Orange & White/Orange	2
Spacer	Yes	Green & Green/White	3
Shielding	N/A	Brown & Brown/White	4
Rip Cord	Yes		
Jacket Material	PVC		
Overall Outer Diameter	0.240" nom.		
Print Legend	GENESIS P/N 5102 4PR23 CAT 6 PLUS EEEEEEE (AAA) CMP-LP (0.6A) 105C C(AAA)US FT6 75C (RoHS) BBB VERIFIED TO TIA-568-(N)N) CAT 6 XXXXXXXX YYYY FT RM# A B C D E F 1 2 3 4 5 6 7 8 9		

#### Electrical & Environmental

Temperature -20°C to 75°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
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

ETL Verified to TIA/EIA-568-C.2 Cat 6. Sweep tested to 600 MHz

Country of Origin Vietnam

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