

# -GENESIS-

## Riser Rated Networking/Ethernet Cable Part Number: 5193

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

**Ratings** CMR, FT4, Sunlight Resistant  
**Approvals** UL Listed, UL Verified

#### Construction

Conductor Type	23 AWG Solid Bare Copper	Color Code	Pair
Conductor Count	8 (4 pairs)	Blue & White/Blue	1
Insulation	Polyethylene	Orange & White/Orange	2
Spacer	Yes	Green & Green/White	3
Shielding	N/A	Brown & Brown/White	4
Alien Crosstalk Screen	Noncontinuous Aluminum tape		
Rip Cord	Yes		
Jacket Material	PVC		
Overall Outer Diameter	0.268" nom.		
Print Legend	GENESIS P/N 5193 4PR23 CAT 6A E175104-1 (UL) CMR C(UL)US FT4 SUN RES 75C (RoHS) ETL VERIFIED TO TIA-568-C.2 CAT 6A 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)	PSANEXT Minimum (dB/100m)	PSAACRF Minimum (dB/100m)
1	2.1	74.3	72.3	20.0	67.0	67.0
4	3.8	65.3	63.3	23.0	67.0	66.2
8	5.3	60.8	58.8	24.5	67.0	60.1
10	5.9	59.3	57.3	25.0	67.0	58.2
16	7.5	56.2	54.2	25.0	67.0	54.1
20	8.4	54.8	52.8	25.0	67.0	52.2
25	9.4	53.3	51.3	24.3	67.0	50.2
31.25	10.5	51.9	49.9	23.6	67.0	48.3
62.5	15.0	47.4	45.4	21.5	65.6	42.3
100	19.1	44.3	42.3	20.1	62.5	38.2
155	24.1	41.4	39.4	18.8	59.6	34.4
200	27.6	39.8	37.8	18.0	58.0	32.2
250	31.1	38.3	36.3	17.3	56.5	30.2
300	34.3	37.1	35.1	16.8	55.3	28.7
350	37.2	36.1	34.1	16.3	54.3	27.3
400	40.1	35.3	33.3	15.9	53.5	26.2
500	45.3	33.8	31.8	15.2	52.0	24.2
550	47.7	33.2	31.2	14.9	51.4	23.4
600	50.1	32.6	30.6	14.7	50.8	22.6
700	54.5	31.6	29.6	14.2	49.8	21.3

UL Verified to TIA/EIA-568-C.2 Cat 6A. Sweep tested to 700 MHz

Country of Origin Vietnam  
Published: 2020-07-23 DDD